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## THE

BRITISH ANERICAN JOURNAL OF


Edted by

## archibald hall, m.D., L.R.v.S.E.,

Lecturer on Materis Medica snd Pharmacy, University of McGill College; Member of the Board of Governors of the College of Phyaicians and Surgeons of Lower Cansda; one of the Physicians to the Montreal General Hopital; one of the Consulting Physicians to the University Lying-in-Hospital, \&c.


MONTREAL:
PRINTED AND PUBLISHED BY J. C. BECKET, 2111 ST. PAUL STREET.

## UNIVERSITY OF M•GILL COLLEGE.

## FACULTY OF MEDICINE.

THHE ENSUING WINTER COURSE, OF LECTURES, in the Faculty of Medicine, will commence on Mcnday, November $5 t h$, and will be continued, uninterruptedly, with the exception of the Christmas vacation, till the last week in April, forming a $\mathrm{s}^{\text {ession }}$ of Six Months.


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 University Lying-in Hospital open to the Students of the Midvoifery Class.In each of the Courses above specified, five lectmes per week are given, fexcept inthe Courses of Clinical Medicine, Surgery and of Medical Jurisprudence, in the former of which two, and in the later three only, during the week, are given. . The Lecturers in he different departments, will illustrate their respective subjects, by the aid of preparations, plates, apparatus, specimens, etc. etc.

The iMedical Library, which is furnished not only with books of reference, but the usual elementary works, will be open to matriculated students, without charge, under the necessary regulations. Access to the Museum will be allowed at certain hours.The Demonstrator of Anatomy will be daily in the Dissecting Rooms to oversee and Direct the students.
N. B.-The tickets of this University being rccognized by the Universities and Colleges of Great Britain, students whu purpose completing their profersional education in the molher country, will obtain an important advantage by having attended its Courses.
A. F. HOLMES, M.D. \& P., Secretary Med. Fac.

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WM. LYMAN \& CO., 194 \& 196, St. Paul Street, Montreal. MEDICO-CHIRURGICAL SOCIETY.
TIHE next Monthly Meeting of this Society will be held at the Rooms of the Mechanic's' Institute, on Saturday Evening Jan.. 5, at 8 o'clock; P.M.

George D. Gibb, M.D.,
Montreal, Jan. 1, 1850 .
$\left.\begin{array}{c|c}\text { 58, Craig Street, } \\ \text { Secretary } & \text { Montreal,'1st Dec.,'1848. }\end{array}\right\}$

## COLLEGE OF PHYSICIANS AND SURGEONS OF LOWER CANADA.

TTHE BY-LAWS of the COLLEGE having received 1 the sanction of the Executive, its BOOKS are NOW OPEN for the REGISTRATION of MEMBERS.

It is required of such as desire to register, that they forward to the undersigned (post-paid) their name, legibly written in full, their age, birthplace, date of Provincial License, and the College Fee, viz., Ten Dollars in current money of this city.

All such as signed the Petition to the Legislature for the Act of Incorporation, are entited to Register forth with, provided that at the time of their signing they were in possession of a Provincial License to practice Medicine, \&c., \& c. ; and in virue of the By-Law whicli refers to Membership, the Books of the College shall be kept open during a period of Six Months from the time of the passing of the said By-Laws, viz.; the Tenth day of October, 1848, for the Registration of every Member of the Profession who desires so to do, provided such Member has been in possession of a Provincial License to practice Medicine, \&c., \&c., Four Years ai the time of the passing of the Act of Incorporation, viz., 27 h July, 1847.

FRANCIS C. T. ARNOLDI, M. D.
Registrar \& Treasurer, Coll. Ph. \& Surg., L. C.

[^0]By Throfhlus Mack; M.D., St. Catherincs.

As no cases of algide cholera came under the notice of the physicians of the above town, some account of a peculiar form of diarrhcea and dysentery presenting many anomalous symptoms, and requiring a form of treatment differing essentially from that prescribed by the authorities of systematic works on practice of physic, may prove of sufficient interest to occupy a portion of the pages of the British American Journal.

The disease first made its appearance about the middle of July, and soon became endemic to this place, for villages, at the distance of four miles, and the surrounding country, enjoyed a comparative immunity from the visitation; this could scarcely be wholly attributed to the neglect of sanatory precautions, as the houses are not built closely together, the town stands upon elevated ground, the soil is of a sandy natưre, mixed with coarse gravel, no stagnant pools exist in the vicinity; the canal water being kept in constant motion by the descent to Lake Ontario, and the frequent lockage of various craft passing through; the inhabitants have never been afflicted by any maladies, deriving their origin from idio-miasma, and they suffer less during the vernal and autumnal months, from malaria, than those residing beyond the limits of the town. This season was remarkable for the equable continuance of both rainy and dry weather, the thermometer seldom above $85^{\circ}$, vegetation was most luxuriant, and the crops of the neighboring farms were abundant. The quantity of free atmospheric electricity was unusually diminished, two thun-der-storms happened during the months of July and August, when the prevalence of the epidemic was at its height; the operator at the telegraph office com. plained of the conduction being so imperfect, that frequently the apparalus worked'so feebly, evcit with an addition of cups both to the nain and local battery, as to render communications very indistinct; a small electrical machine in my possession, which always, previously, acted well, and at present yields sparks of great length and intensity, could not be brought to exhibit any but the weakest electrical phenomena; these facts are merely curious in themselves, 'as the influence of the electrical condition of the atmosphere upon the causation of disease is, at the present day, wholly undecided:
At the distance of three miles along the canal, there occurred four cases of well marked Asiatic cholera, the patients were negro volunteers, belong: ing to: a detachment temporarily stationed at that
spot. At Port Colborne, the entrance to the Welland Canal from Lake Erie, on one night in July; six people were seized with spasmodic cholera, and all the cases proved fatal. On another night shortly after, it again made its appearance, and seven died,subsequently thirteen cases occurred during the space of six days, and then it finally disappeared; the total number of cases occurring in the colored corps, was about seven, these latter and those of the detachment received treatment at the hands of Dr. Jukes, who employed the calomel system, and the deaths were. five ; the others were generally submitted to the tender mercies of several Charlatans who prey upon the poor Irish laborers, and they died to a man.
It was remarked upon both nights, when the mortality was so great, that a singular sulphurous odor pervaded the air. In the village of Port Colborne, there are a number of springs in the neighborhood impregnated with sulphuretted hydrogen, and the phenomenon might be wholly ascribed to barometric causes.

At no place but St. Catharines did the epidemic, then prevalent, during all this time, make any serious inroads; this disease was frequently preceded, for a day or two, by catarrhal symptoms, its accession was then ushered in by chills, anorexia, nausea, and vomiting, with slight cramps of the abdominal muscles and extremities, gradually the gastric irritability increased, accompanied by abdominal pain, tormina, and frequent copiois evacuations of a serous dark, bilious character, and extremely fotid. As the disease advanced, blood, first in small quantity, "appeared with the stools, which soon consisted solely of blood and mucus, accompanied with distressing tenesmus, tongue generally: clean and red, becoming dry as the complaint was developed, not unfrequently it was coated with a white or yellowish white fur; the pulse small and frequent, from 100 to 130 ; copious cold sweats, the urine diminished, and in fatal cases suppressed ; much jactilation and despondency, coldness of the extremities, death was preceded by collapse and lividity of the surface; the attending fever, and but few patients escaped this complication, was sthenic; not unfrequently of a remittent or intermittent type, and in some, typhoid.

In a few instances the dysenteric symptoms supervened at an early stage, but, generally, their invasion took place at the close, having the semblance of the disease, commencing at the cardiac orifice, and traversing successively the entire intéstinal tract, to terminate in the rectum ; tenderness upon pressure, over the several regions of the abdomen, was absent in most of the cases coming under my observation; the
sudden approach of collapse at any stage of the disorder, evinced a choleraic tendency; it also seemed to be substituted for the ordinary diseases of miasmatic origin, that usually prevailed during former years, at the same season, and when those did declare them. selves, they invariably assumed "the livery of the prevailing epidemic."

So universal was this complaint, that scarcely onefifth of the population escaped some form of it, either very mild; or presenting all the symptoms above described; the majority were, however, of by no means an aggravated kind, most persons whom one encountered after their mid-day meal were flushed, and complained of transitory griping pains.

In a great number the exciting cause was, conclusively, of a contagious nature; upon one member of a family contracting the disease, the remainder, notwithstanding all due precaution in diet, cleanliness; and ventilation, one by'one also succumbed, and not a few well ascertained instances occurred, of visitors who had arrived from a healthy locality receiving the disease when exposed to intercourse with those laboring under it, or upon their return or departure from the neighborhood.

Duration ;-this, in fatal cases, was never less than from five to ten days, sometimes three weeks elapsed before its termination, in death or recovery, but in a large number, the symptoms were relieved in the space of two or three days.

The history of the following cases may serve to illustrate the semilology more fully, and afford a sketch of the treatment practised.

CAse A.-A married lady, xtat 34, full habit of body, of a decided strimous diathesis, the mother of seven children.

Ist Day.-A few days previous, she experienced slight catarrbal symptoms, for which she was at a loss to account, wandering pains, occasional cramps in the gastrochnemii and adductors of the thighs; last night she passed se veral dark watery stools, containing scy. bala tinged with blood, attended with no pain, she has one now every thirty or forty minutes; no pain on prosure $;$ vomiting of ingesta immedate upon their reception in any quantity; tongue clean and red; pulse frequent and tense" chol extromities, and much prostration.

Haturo Morph Sulph. EF $\frac{1}{c}$.
Aque, $q$. 8 . pro. mist. Statim sumend et rentat. mi \% Aque, q. 8 . pro mist. Statim sumend et repetat. dos. bis per lo to as trés.
: Cataplasm. sinap ad epigastrium.
Etiam R Hyd. chlotid gre ssen semihorio capiend donec emesis sublevanda erit.
The romiting was allayed after the third doze of calomel, and one repelition of the camphor misture.


are vern Fiat pulv. 3 tiis. horis adhibend. Mitte iij
2nd Doy-Bowels moved less often, and evacuations less watery has of febrile exacerbation about
o'clock, a.m.; pulse 120, small; capillary circulation improved; complains of tormina; urine scanty; distressing thirst ; vomiting at intervals. To be confined strictly to the horizontal posture, and the dejec. tions received upon cloths placed for the purpose; to be allowed to swallow small pieces of ice occasionally; a blister to be applied over the stomach; one grain of calomel to be laid upon the tongue and swal. lowed, fullowed by a little gum water, with liq. opii. sedat. mxv., every hour or every second hour, according to the urgency of the symptoms.

3rd Day. - Vomiting and chilliness, followed by high fever, at 9 o'clock; bowels very frequently moved, dejections consisting principally of fluid, containing blood, in large quantity and mucus.

> Repetat. pulv. acet. plumbi., \&c., ut ante.

Capiat quininæ disulph gr. x. prozima hora.
4th Day.-Bowels not opened for twelve hours; vomiting wholly subdued; tormina; fever in the after: noon; tenesmus and bloody stools Sour or five times. Repeat the quinine to-morrow at day-light.

5th Day.-The remittent fever has been success: fully interrupted; dysenteric symptoms increasing; urine nearly suppressed; copious enemata of cold water, with a drachm of laudanum in each, were ordered at intervals of four or six hours.

P Ferri persequinitiat. sol. (form. Mr. Ker) m. xx. Omni vel 2 da. q. q. h. sumend. ex. aq. q. v.
$6 t h$ Day--Urine copious; stools nearly free from blood tinged with oxyde of iron, and more purulent. Ut hèri.

7th Day.-Improvement continues; evacuations now consistent and fecculent, colored highly by the iron, recurring only every sixth hour.

8th Day.-Dysenteric symptoms removed ; omitte remedia.

9th Day.-Convalescing; complains of exhaustion; quinine in small doses, \&c.

Case B.-A female, wat 39. : Burning heat at scrob- cordis; vomiting and faintness; tenderness over the course of the colon; evacuations very fre: quent, serous, mixed with sanguinolent mucus, tenesmus.

> Infus. quassia ziv.
> Capt cochil comp. 2 dis
> Mist a
> Mist camph chlorof comp. p. n.

2nd Day, The sane as yesterdayo mon
$3 r d$ Day-1mproving Enema, decoct amyli et opi post zedes sing liquidasorio Ferri persesquinit ut ante 3 tiis $v$ 4us horis.

5 , sh
4th Day- The same as last report. . L .
5th Day. No discharge from the bowels. for 14 hours.

6th Day.-Convalescing. Prescribed infus calum: bæ.

CAse C. Lahorer, xtat 40 Has been suffering; from diarrhœa for three days, for which he treated hims elf with some of the compounds of laidanum and
capsicum, so much in vogue; evacuations frequent, containing much blood and mucus; vomiting has ceased; no pain on pressure; tongue red, clean, and dry ; cold extremities and clammy, copious sweating. To be confined to the horizontal posture, \&c.
B. Hyd. Chlorid. gr. v.

Pulv. opii. gr. ii. Statim sumend.
2nd Day.-Relieved by the powder, having passed six hours in sleep; pulse 100, soft and weak, sweating copiously; bowels opened five times, within the space of eight hours. Persesquinitrate of iron in the dose of half a drachm, mixed with a little syrup, every hour, second or third hour, according to the frequency of the passages from the bowels.
$3 r^{\prime} D_{a y}-U t$ hèri.
4th Day-Tmproving.
5th Day.-Oniy tiree dejections in 24 haver, colured with the ron, and becoming more consistent; pulse "90, weak. Recommended rice, broths, \&c., the maintenance of the horizontal posture, and the continuation of the medicine twice a-day.
6th Day--Contrary to my injunctions he arose this morning and walked out into his garden, upon returning into the house, be remained sitting in a chair until syncope supervened, and he was carried to bed; I found him pulseless almost; bathed in cold perspiration, and evidently becoming collapsed, $I$ administered Brandy, Camphor and Chloroform, quinine and ammonia, alternately for about thinty hours, at the end of that time he expired. No sectio cadaveris.
Under treatment of this kind, modified in different cases, the number of deaths were only four, out of ninety patients.
Among the remedial agents camphor and opium claimed a high rank, tending to diffise excitement and relieve the sinking and faintuess so distressing, when the disease had reached its climax. Next to those the persesquinitrate of iron appeared to exert the nost controlling influence. In the hurry, consequent upon the attendance of a large number laboring under a complaint requiring much assiduity, several applied for my services whom I could not attend regularly, but I zecommended the use of this solution with infusion of quassia, and I have sinct ascertained that the prescription invariably proved highly successful, often, when used early in the attack, cutting it short at once. Mercurial preparations proved indispensabie, in cases complicating remitting fever, or exhibiting much hepatic engorgement. Acctate of lead fully pustained its high reputation, in cases where the discharges were watery or contained much blood, in the former I gave preference to large doses; a form of subacute gastritis, which speedily yielded to blistering, sometimes followed this use of it. Enemata of acente of lead, nitrate of silver, tiact. ferri sesquichloidid tannin, opium, \&ec., all were highly. valuable in ratious cases, more particulatly where the disease lingered in the lower part of the bowels.
St. Catharines, November 27, 1849.

## Art. XLIII.-THE H Lera at VaUdred L

By H. Cartier, m.d., Vaudreuil.

Votre lettre m'est parvenue. En réponse, j'ai l'honneur de vous informer que le choléra a sévi aviec beaucoup de rigueur dans cet endroit. Du 17 juillet au ler octobre, j'ai été appelé, tant dans Vaudreuil que dans l'lle Perrot. auprès de 75 cas do cette terrible maladie." Dans tous les cas il y a eu vomissements, selles grisatres, et crampes plus ou moins fortes. De ce nombre, 61 étaient des adultes, et 14 des enfants il est mort, des premiers $\theta$, et 5 des derniers. J'ai cssaye plisieurs des traitements recommandés, mais celui qui m'a réussi le mieux, et quej'ai genéralement employe, a été le traitement par lo calomel et le camphre, d'abord à fortes doses, puis en doses moins fortes, et répetées d'heure en heure, quelquefois même de demi-heure en demi-heure, jusqu'à changement dans les symptomes. De tous les cas fatals, il n'y en a eu que trois chez lesquels je n'ai pu arrêter, ni le vomissement ni la diarrhée; les autres ont cédé au traitement, mais dans aucun la chaleur n'a pu être ramenée. Tous ont conservé leur parfaite connaissance et l'usage de la parole jusqu'au dernier moment, quoique chez quelques uns le pouls eut cessó de battre depuis plusieurs heures.
Le cholera a sévi le plus fortement dans les endroits bas et marécageux, le long de la riviere-il n'y a eu que très peu de cas dans les concessions at sur les terreins élevés.

Outre le choléra, nous avons aussi eu un très grand nombe de cas de duarrhées et de dysenteries, mais aucun n'a été fatal.
Vaudreuil, Nov. 12, 1849.
ART. XLIV - CRITICAL EXAMINATION OF GENE. SIS III. 16. HAVING REFERENCE TO THE FMPLOYMENT OF ANASTHETICS IN CASES OF LABOUR.
By the Rev. Abnaham De Solia, Lecturer on Hebrew Language and Literature, University of M•Gill College.
The employment of anæsthetic agents in midwifery, has been opposed by many persons, on grounds, buth religious and professional. The professional objections, we have neither the ability nor inclination to canvas here ; but, we do propose, agreeably to the Editor's invitation, to make some few observations, in a spirit, we trust, of fairness and candour, as to the socalled religions objections, founded, not on any received figurative interpretation, which would at once preclude our remarks, but upon the plain, grammatical sense of certain words of Holy Writ. This announce. ment, coming as it does from one who does not generally accept the principles of Christian interpretation, may perhaps bs considered startling, certainly somewhat novel in its character, but to remove any nervous objections which may on this account prevail in the mind of the Christian reader, we shall proceed to give a brief outline of the manner in which we shall conduct our investigation of that Scriptural passage upon which, as all agree, the pro's and contras in this discussion are almos! entirely based.

From the perusal of varicus tooks and papers on this subject, and, more especially, from the perusal of Dr. Simpson's excellent work, * at his third and fourth chapters, which may be regarded as a kind of concervatio argumentorum, we are led to conclude that all objections to the superinduction of anæsthesia in labour, are founded on certain words occurring in the 16th verse of the 3rd chapter of Genesis. Now, we believe that, if it can be shown on scientific principles that the words have no such meaning as have been attributed to them by the translators of the Anglican version and others, the objections founded on them, must be considerably modified, if not entirely removed; hence, one principal portion of our labours will be a grammatical analysis of these disputed words.

As it appears to us that in conducting such an inquiry, no source of information should be neglected, however repugnant it may prove to our pre-conceived notions and prejudices, we shall not fail to seek light and assistance from Hebrew, as well as Christian, authorities. The advantage of consulting the former, must be evident to every unbiassed mind, recollecting as it needs must, that for whatever knowledge we may possess of the Hebrew language and its grammar, we are indebted to them;-that Christian compilers of Hebrew grammars and Lexicons have taught little or nothing more, and very much less, than they have taught; and that their commentaries and paraphrases, have avowedly assisted Christian translators in their renderings of the Sacred text.

But, before proceeding to our task, we think it necessary to make some observations on a passage in Dr. Simpson's work, which, we think, ought not to pass unnoticed, since it may induce many, anxious to arrive at the truth, but unable to consult the original text of Scripture, to form erroneous notions on the question under consideration, to establish false hypotheses, and to imagine that they have unanswerable arguments against those who defend on Scriptural grounds the employment of anæsthetics in labour. The passage referred to is as follows: "Those who from the terms of the first curse, argue against the superinduction of anæsthesia in labor, aver that we are bound to take and act upon the words of the curse literally, 'I will greatly multiply thy sorrow and thy conception,' or as Gesenius and other Hebrew authorities state, that being a case of Hendyadis, it may be more correctly rendered, 'I will greatly multtiply the sorrow of thy conception, \&c.? 't Now, we have to remark, that the rendering here spoken of, instead of being more correct, is most incorrect. It is plainly untenable, and if Gesenius has written after this fashion, it is truly astonishing. Not having his Lexicon, in the original, before us, we can only turn to an English translation (Gibb's), and there we find that Gesenius says no such thing. We do, indeed, find that under the root $ב y y$ (ngatsab) he thus remarks, "עצבון (ngitsabbohn), verbal from zyy (ngatsah) means, 1, labor, toil, 2 ,

[^1]pain, Gen. iii. 16. עצ, (ngitsebonech ve. heronech) thy pain and thy conception, i. e. the pain of thy conception." Here, it will be perceived that there is no case of Hendiadys affirmed, though there is one suggested. The learned Professor translates just as the Anglican authorised ver. sion translates. He says, plainly enough, the words mean thy pain (Authorised version, thy sorrow), and thy conception. always supposing that his translator has not misunderstood nor misrepresented him, and we have no reason to believe that he has. . It is true, as we before remarked, that he suggests such a case, but here he speaks theologically, and we may be permitted to differ from him. Philologically, he must needs reject the theory, and for these simple rea. sons: prefixed to the latter of the two nouns, there is the letter 1 (vau), which, when so occurring, must necessarily be translated by either of the words, or, and, or but ; in short,, is either a conjunctive or dis. junctive. Now, the occurrence of either of these, would at once exclude from the mind of one, at all ac. quainted with Hebrew philology, any idea of Hendia. dys. II we may be permitted to transfer here certain principles of Hebrew grammar, with which the merest tyro in that study is acquainted, but of which the hold. ers of the opinion under notice, appear to have been ignorant, or unmindful, we should remark that Hendiadys can only obtain, in Hebrew, where two nouns are in juxtaposition; or, to speak more technically, in construction with each other, and for this latter pur. pose, the first noun must be in the genitive case, and have the word of added to it. Unless this rule be observed, the nouns will stand as absolute; or having no connection with each other. This will be more clearly scen by example. Let the two words, דבר (dabbar), a word, and (emeth), truth, be placed together, and the former, being in the nominative case, and therefore having the vowel point (a) called Kamets, must be translated as in that case; and the two words will mean, a word truth. But the [kamets.] being changed into : (sheva), as is required for the genitive, the words will then express, " word of truth, which we would render in English, a true word. It will be perceived, then, from this esample, that, what in English requires to be an adjec. tive, may be, and is, in Hebrew, a noun substantive, used as a definitive or predicate. And indeed, to the class of noun substantives,* almost all adjectives in Hebrew are reduced. Hence, ton, it will be perceiv. ed, the figure of Hendiadys is more common in Hebrew than in other languages. But let us now apply these rules to the examples with which we have more im. mediate business. We observe', in the first place, that the noun y y $n$ itsabbohn, is in the genitive case, and so far, agrees with the rule laid down for constructir. nouns; but, we quickly perceive that it is is so, not he cause it is in construction with the following noun, bu with the personal pronoun 7 (cha) thee. Moreover, " ${ }^{-}$ observe that the second toun (herayon), is alsoin

[^2]the genitive case, having the conjunction $ו$ (vau) prefixed, and the personal pronoun 7 (cha) postfixed. We must then, of necessity, translate the two words thus: - עצבונך (ngitsebonech) the trouble, or labor of thee, i.e., thy trouble-ךוחרונ (vehèronech) and the conception of thee, i.e., thy conception.

The foregoing, we fear some what tedious, illustration, may perbaps be sufficient to show that there is no case of Hendyadis in the passage under consideration, and that those who insist upon such a figure, and the translation so resulting, can only do so, in defiance of, and opposition to, the most simple and evident rules of Hebrew grammar.

We shall now proceed to our examination of Genesis iii. 16. The first word upon which we have to remark is עy yitsabohn, rendered by the authorised version, thy sorrow. To determine the primary signification of this word, wo shall, of course, refer to its root; but, shall not, as Dr. Simpson has incorrectly done, discover this root in ngatsab or atsab * i.e., 3rd pers. masc. gen. pret. tense and indicative mood of the form or conjugation, Kal; but in the noun, yy ngetseb. The first may be a very useful form, wherein to reduce all roots, for lexicographers and grammarians ; $\dagger$ but we think we are justified in stating, that the great majority of those who have at all regarded the philo. sophy of grammar, have decided that, in such cases, the noun is prior to the verb. It is of course imposgible to show this at any great length, here; but to those who desire to see the subject briefly, but lucidly and ably considered, we recommend the perusal of the introductory chapters of the late 'Professor Hurwitz's excellent "Hebrew Etymology." Affirming, then, the root of pay nitsabohn, to be the noun $2 x y n$ geitseb, we seek its signification, not from Gesenius, whom Dr. Simpson "believes" to be the highest authority he could quote on such a point ;" $\ddagger$ but from an authority whom all Hebrew critics would decide to be incomparably higher than Gesenius, viz., R. David Kimchi. In his "Sepher Hashorashim,"§ before "giving the signification of this noun, he adduces the following passages of Scripture": 1, Gen. iii. 16, "In בyy ngetsel (authorised version, in sorrow) shalt thou briug forth children." 2, Prov. xiv. 23, "In all ngetseb (a. v. labour) there is profit." 3. Isa. Iviii. 3, "And exact all עy ngatsbechem" (a. v. your labours). 4, Prov, v. 10, "A And 7. y ngatsabecha (a. v. thy labours) be in the house of a stranger." 5, IChron. iv. 9, "Because I bare thee Zyy bengotseb" (a. v. in sorrow). 6, Isa. xiv. 3. "The Lord shallgive thee rest pivy mengotsbechia" (a.v. from thy sorrow). 7, Gen. iii. 17, "Cursed be the ground for thysake thou eat of it:" 8, Gen. iii. 16, "I will greatly multiply, "עצבוני ngitsebonech" (a. v. thy sorrow). After citing

[^3]these eight passages, Kimchi then remarks, y הכל העמל וחיגיעה nginyan hakol hengamal vehayegingha, i. e. "The meaning of ( $n g$ getse $b$ contained in) all these texts is labour and toil," (hengamal vehayegingha) The words of Kimchi are explicit enough ; but to remove all doubts from the mind of the reader, and, to show that we wish toconsider this question in a fair spirit of inquiry, we shall examine now what are the significations of עמל ngamal and yègingha, not seeking our information from any Hebrew author, but from Gesenius himself. The learned professor tells us that ygamal means, 1, labour, fatigue, or toil; 2, fruits of labour ; 3, trouble, adversity, like labour, кá $\mu \alpha$ тos, тóvos, Gen. xlii. 51, \&c ; 4, iniquity, injustice." But that the third signification he gives cannot be understood in the sense of pain or sorrow, is clear, 1st, from his expression, " like labour"; 2ndly, from his Greek illustration; (We should bere remark that Parkhurst renders kåmNa, to labour even to fatigue, and móvos, in one of its significations, also; labour.) 3rdly, from the Scriptural passages quoted by him. Let us refer to his first (Gen. xlii. 51), where Joseph calls the name of his first born Menasseh, "because God, said he, hath made me forget all "y ngamale (a. v. my toil), and all my father's house." That the authorized version, Buxtorf who translates, labor meus, and others who render it toil, have translated correctly, will be admitted by those who observe that Joseph apparently alludes to the toil of providing for the seven years' famine, which toil the text has already particularized, and further, from his adding, "and at my father's house," alluding in this latter expression to the sufferings he had experienced through his brethren. Otherwise understood there would be a strange redundancy in the passage. Gesenius's next reference is to Deut. xxvi. 7, where the Israelite says, "The Lord heard and looked on our amiction and עמלמלו namalenu (a. v. our labour) and our oppression. The same remarks which refer to the correctness of the reccived English version of the preceding passage in Genesis, apply to this passage also. Gesenius's last references are to Job, iii. 10, "nor hid עמל gnamal 〈a. v. sorrow, but may as well mean) trouble or fatigue from my eyes"; and to Job xvi. 2,"Ye are all menuchamè ngnamal, (a. v. miserable comforters), i. e. "Ye trouble or fatigue me with your long and profitless harangues." Thus much respecting bpy ngamal, the first of Kimehi's significations of $ב צ y$ ngetseb; that his second, viz., יעי yègingha, means labour, toil, or fatigue, is renerally admitted. Thus then we find that one of, if not the most eminent of Hebrew scholars, has pronounced that both ngetseb and ngitsabbohn in Gen. iii. 16., do not mean sorrow, as the English version of the Bible renders them : but that they signify physical labour, toil, or effort, without any reference to pain or sorrow.

> (To be Continued.)

ART. XLV.-REPONSE AUX OBSERVATIONS DE E S. DE ROTTERMUND, ECR., SUR LA PAẼTIE CHIMIQUE DU RAPPORT DE PROGRES POUR LANNEE 1847-8, DE LEXPLORATION GEOLOGIQUE DU CANADA.

Par T. S: Hunt, Chimiste a l'Exploration Géologique.

Le numéro de Décembre, de ce journal, contient un article donné pour être une critique faite par M. E. S. de Rottermund, de mes labeurs comme Chimiste et Minéralogiste de l'exploration Géologique de la province, tels qu'exposés dans le Rapport de Progrès pour l'année 1847-48.

Que les travaux d'un homme public soient exposés à la critique, il n'y a là rien d'étrange ; mais ce doit être un sujet de surprise, dans le cas présent, que le rôle $d^{\prime}$ Aristarque soit joue par un individu qui, comme le prouve clairement l'article sous considération, ignore presque entièrement les premiers principes de la chimie.

Je ine permettrai donc, afin de complaire au désir de quelques.uns de mes amis, d'appeler pour un moment, l'attention des eavans sur l'absurdité des accusations portees contre moi, non pas tant pour ma défense person. nelle, car je puis à peine concevoir qu'une pareille attaque puisse färe tort à ma réputation scientifique, que par devoir envers le public, dont je suis le serviteur, et qn'on ne peut guère supposer en état de distinguer le vraie du faux, dans un écrit dont l'auteur fait ses asser. tions d'un ton si magistral.
(1) M. de Rottermund fait allusion aux recherches quill a faites dans le Laboratoire de l'Exploration, durant les deux années qu'il a occupé le poste de chimiste, et suggère que je les ignore ou que je n'ai pas voulu condescendre a a en faire mention. Je regrette qu'il n'ait pas été capable d'apprécier le motif de mon silence. Le document non officiel donné pour être son Rapport, comme assistant de l'Exploration pour le département chimique, a déja été examiné dans ce journal, par le Professeur Croft, de Toronto, dans une critique dont justice, quant à la science, est manifeste à tous ceux qui sont en état d'en juger, et il m'a semblé qu'après une exposition si complète de ses erreurs et de ses absurdi, tés, toute allusion de ma part, n'aurait été que le souvenir inofficieux de sa malheureuse controverse et de sa defaite.
(2) A l'egard de mes remarques, page 139, sur la répartition des acides et des bases dans une solution, comme une opinion genéralement reçue parmi les philosophes chimistes, M. de Rottermund observe : " II faút que nous nous entendions sur ce principe plus antigue que le phlogistique. Je ne sait pas de quelle espéce ou de quel siècle de philosophie (il ?) vent parler; car je veux démontrer l'impossibilité de cette doctrine." Et ceci est suivi d'une démonstration qui prouve clairement que M. de Rottermund est absolument incapable de comprendre le language commun. Mais je ne veux pas que ce qu'il affirne de l'antiquité de cette doctrine induise ses lecteurs à croire que les découvertes des temps modernes ne l'ont pas confirmée, et qu'elle n'est pas admise par les philosophes chimistes de la présente
époque. Je citerai ce que di Sir Robert Kane, dans ses Elémens de Chimie, publiés en 1842.
"Si les acides et les bases ne diffèrent pas grandement en énergie d'affinité, ils s'arrangent de manière à ce que chaque base soit partagée entre tous les acides, et chaque acide entre toutes les bases, en quantités qui dépendent des quantités de chaque acide et de chaque base qui peuvent être présentes, et de sa force d'affinité." Edit. Am. p. 168.

On ne s'exprime pas autrement dans la dernière édition des Elémens du Dr. Turner, rédigée par Justus Liebig, de l'Université de Giessen, et publiée en 1842.
"Quand deux acides et deux bases se rencontrent ensemble en proportions neutralisantes, on en doit inférer que chacun des acides s'unit avec les deux bases, d'après un mode réglé par leurs forces respectives d'affinité, et que quatre sels se trouvent contenus dans la solution. De même, la présence de trois acides et de trois bases donnera naissance à neuf sels, et quand quarre de l'un et de l'autre sont présents, seize sels seront produits. Cette manière de vorr offre la théorie la plus plausible de la constitution des eaux minérales et des produits qu'elles donnent par l'évaporation," p. 148.
(3) Le critique parait disposé à s'égayer aux dépens de ma balance, dont la délicatesse le frappe, comme étant extraordinaire; l'instrument fait certainement honneur à Deleuil même, dont les balances ont à Paris la réputation de ne pouvoir pas être surpassées en justesse ; mais la manière dont il s'en sert peut donner lieu à une plus grande hilarité. Quiconque est au fait dès analyses quantitatives sait que les chimistes ont pour habitude d'exposer sous une certaine forme, qui est de convention, les quantités respectives des différentes substances trouvées dans l'eau : ainsi, par exemple, les sels de sodiun dans une eau minérale, soit comme carbonate, sulfate, chlorure, bromure ou iodure, sont changés en un composé d'une constitution défnie et connue, comme chlorure sodique ou sulfate sodique; et c'est d'après la quantité de ce composé que la quantité de la soude est calculée.* La quantité du chlore et des autres radicaux combinés avec le sodium est alors déterminée, et comme le chlore se combine directement avec le sodium, l'équivalent d'oxsgène qui est représenté comme combiné dans la soude est soustrait de la somme des poids du chlore et de la soude, pour donner le montant du chlorure de sodium. Les autres calculs sont faits de la même maniere, et les proportions dans lesquelles toutes ces combinaisons sont effectuées, sont déterminées par les nombres equivalents, qui, dans le fait, sont les proportions relatives de combinaison de differentes substances. Ces nombres ne sont encore déterminés qu'approximativement; mais les raffinemens dans la manipulation chimique, nous mettent, d'année en année, en état de corriger les déterminations précedentes, et d'offrir un calcul plus approxinatif.

La composition des différentes combinaisons donnees dans 1000 parties d'eau, a été calcule d'après les nombres corrigés récemment et posés par Fresenius, ei-devant de l'Université de Giessen, maintenant de Wiesba. den, dans son traité, publié en 1846. Sous ces circon-

* Voir Fresenius, Analyse Quant. p. 489, et Annalen der chemio und pharmacie, lii. p. 66.
stances, M. de R. en vient à examiner l'exactitude de mes résultats, et prenant non pas mes déterninations originales au moyen de la balance, mais les calculs faits d'aprè́s ces déterminations, de la manière qui vient d'être décrite, il entreprend de faire la preuve de ces calculs, mais malheureusement, il a recours, non aux nombres de 1846, mais à ceux donnés par Rose, dans la première édition dé son Traité Pratique d'Analyse Chimique, sous la date de 1832 (qui sont ceux qu'il cite) et donne les résultats ainsi obtenus comme servant à corriger les miens!

Il ajoute de plus, "qu'en examinant chaque item de la composition des sels, donné par M. Hunt, il n'y a pas un seul corps qui a son poids exact." Ils doivent comme de raison, être différents de ceux qu'il a déduits des anciens nombres atomiques, mais ils sont aussi exacts que possible, puisqu'ils sont calculés en stricte conformité aux tables corrigées des proportions de combinaisons. La remarque qu'il fait, que suivant mon analyse, ". on devrait trouver du chlore à l'élat gazeux dans l'eau mi. nérale," est une illusion provenant de la même erreur dans ses chiffres, bien qu'il puisse être démontré qu'un excès de sonde comme carbonate, ou carbonate et silicate, ôte, même pour M. de R., la nécessité d'une telle supposition.

Mais les remarques sur cette analyse sont terminées par une bévue bien capable d'exciter l'admiration; pour fournir une preuve encore plus convainquante de l'nexactitude de mes résultats, il a additionné les quantités, données conformément à l'usage ordinaire, de soude, de chaux, de magnésie, de chlore, d'acide sulfurique, \&e., et ayant ajouté à la somme la quantité d'eau donnte comme résidu én 1000 parties, il trouve, à sa grande surprise, $1000 \cdot 967324$ parties. $\cdot$ Il semble ignorer que la soude et le chlore éliminent, en se combinant, 8 parties d'oxygè ne sur 58.5 parties du chlore de sodium forme, et'queic'est là la difference, quant au poids, entre le chlorure de sodium, qui existe dans les eaux minérales, et la combinaison' inconnue du chlore avec l'oxyde de sodium, sur laquelle M. de Rottermund base sa correction! "L'augmentation si grande" dans mes analyses n'a fionc d'existence que dans ses ridicules méprises. Pour ce qu'il est de la quantite d'eau ajoutèe ${ }^{+}$" pour faire paraitre les chiffes ronds," j'ai seulement à dire que", quant au plan de'donner la composition de 1000 parties. d'eau, j'ai eu pourl'adopter l'antorite du Dr. Schweitzer, dont les analyses d'eaux minerales sont connues de tous les chimistess im L'analyse de l'eau de mer du Pas-deCalais; citee par moi; p. 161 du rappori, e: est un exemple

Pour ce qui est des gaz, M. de Rottermund aurait pu s'épargner la question; "M. Hunt croit-il que l'acide carbonique ou (et ? l'hydrogene carbone sont la méme chose, etc. ?" s'il avait lu la description du procédé adopie pour lexacté détermination dugaz acide carbonique à ala source, léquel, étant fonidé sur le fait qu'il est de la nature de ce gaz de former un'sel avec la chaux, ne permet pas qu'il soit confondu avec les gaz adventices, l'oxygene, le nitrogè̀ne, et l'hydrogene carbures quai sont présents dans ces eaux en quantités peu considérables et variables.
(4) Mais pour passer à la " Source au Soufre Blunc'," dont je remarque que " bien qu'elle porte le nom d'eau sulfureuse, son tître a cette dénomination n'est pas très fonde ; elle a une saveur et une odeur faiblement sul. fureuse, et elle norcit légèrement les sels de plomb et d'argent; mais la quantite de soufre existante soit comme hydrogene sulfure, soit comme sulfure alkain, est tres peu considérable, et ne peut pas être estimée quantativement par les procédés ordinaire." Bién que je donne comme bulgaire le nom par lequel cette source est généralement désignée, M. de R. dit : " M. Hunt luimeme donne le nom de Soufre Blanc à la source," et puis il s'efforce de faire douter de l'exactitude de non exposé, quant à la petite proportion de soufre qu'elle contient. J'ai parlé dubitatio ement quant a la conditión du soufre, parcequ'il est admis par les écrivains les plus récents, que l'exactitude, ou la justesse des* pröcédes proposés jusqu'a présent pour determiner, est très doui. teuse, * et quand la quantité est petite au point d'étré à peine appréciable, ce ne purra être que par induction; comme en será convaincu quiconque est au fait du prócédé, qu'on pourra déterminersil'ingrédient sulfureux est un sulfure alkalin ou le gaz hydrosulfurique. J'ai faitallu:sion, dans mon rapport, au témoignage de médecins, quánt à l'efficacité de cette eau, dans les cas où l'on suppose que le soufre est efficace, et le critique trouve, ou feint de trou: ver, quelque chose dérisible dans l'idée que d'aussitetites doses de soufre puissent produire des effets sensibles. Contredira-t-il le savant Dr. Daubeny, professeur de chimie, d'Oxford, et la profession médicale gene ralement, sur l'efficacité qu'ils attribuent à l'iode, conime constatée dans les eau de Spa, telle que celle d'Adellieids. quelle, qui, d'après l'analyse de Struvé, ne contient que $\frac{1}{45.714}$ de cetélement, ou dansl'eau de Saratoga dite de Congress, qui a moins de $\frac{1}{1.440 .000}$ d'iode, et environ $\frac{1}{48.000}$ le brôme?
Pour ce qui est de la présence de la silice dans les eaux, telle que considéree, p. 147, it en parle (en's'ef forçant de prendre le ton railleur et ironique, comme de "la grande découverte qui s'est faite daris le labo": ratoire, $q$ i va éblouir le monde savant, et les tràp. per de stupeur-mais comme la découverte: est bien grave," \&c. En ai-je nartécomme d'une nouvelle dé converte? non, car je savais que'c'était un ingrédient qui ne manquait jamais dans les eaux naturelles, et que sa présence a eté reconnue par Berzeliusilpar Struveret par Schwietzer. J'ai suggere qu'elle" pouvait exister dans'les eáux alkalines comne silicate; et depuisqque mon rapport a été écrit, je trouve que M : Xenry; dans ses examens des eaux minérales des Pyrénées frenea déjà arrivé à la même conclusion,' et dans son analyse; de sa source de Chatenois, il' ("vu llincertifude qui règne encore," quant a la cónpsition des silicatés so: lubles) représenté la soude comme un mélange de carbonate et de silicate dont il $\cdot$ n'entreprend pas de "déterminer les proportions relatives. $\ddagger$ Telle est la découverto dont M. de R. mé fait erronement honneur.

[^4]Mais le sage et savant critique est grandement en peine de savoir comment l'eau en question peut être alkaline, et il parle d'alkalis et de sels basiques, sans pouvoir trouver la solution de la difficulté qui l'emharrasse. S'il avait été à la cuisine ou à la buanederie, sans recouprir à de plus hautes autorités, le cuisinier ou la blanchisseuse auraient dù lui apprendre que le carbonate de soude que l'eau contient, la rend alkaline. Mais il ne peut comprendre comment le carbonate de soude peut rendre la silice soluble; il est vrai, comme il le dit, que la silice décompose le carbonate de soude au feu; mais c'est aussi un fait qu'il aurait puapprendre dans un ouvrage élémentaire quelconques, que la silice est facilement soluble dans une solution bouillante de carbonate de soude, propriété que le chimiste analytique appelle très souvent à son aide ; et c'est anssi un fait qui ne deyrait pas être ignoré de mon prédécesspur, que quand une solution diluee de silice, ainsi obtenue, est neutralisése par un acide quelconque, la totalité de la silice demeure en solution, en ce que Berzelius a décrit comme "la modification soluble," soluble tant dans l'eau pure que dans les acides." Il prend sur lui de parler de la méthode d'analyser les minéraux silicieux, mais tous les résultats qu'il obtiendra, sans tenir compte de ecs réacitions, seront bien éloignés de la vérité.

En voulant corriger mes chiffres, dans l'analyse de la "Source au Soufre Blanc," il est tombé dans une étrange méprise, dont il est aisé de s'appercevoir sans être chimiste. La table montre les divers ingrédiens salins avec l'acide carbonique, en sus de ce qui est nécessaire pour former des carbonates, et le reste est l'cau qui complete les mille parties. J'ai donné au-dessous de cette table; la somme de toutes les matières solides: cette somme, le savant critique l'ajoute à celle de l'eau, en oubliant l'acide carbonique, et trouve, comme de raison, que la somme est 1000 parties, moins le montant de l'acide carbonique ; mais, ne s'appercevant pas de sa bévue, il s'ecric: "Que le lecteur juge s'il y a de la érité dans les chiffres!"
(5) M. de Rottermund en vient en suite all'examen des analyses que j'ai faites de la Source Sûre de Tuscarora, et trouve, tout-d'abord, une difficulte dans ce que je dis, que ll'eau, non seulement ne donne pas de précipité avec une solution de nitrate d'argent, mais que même elle n'en est pas affectée sensiblement, c'est-a-dire qu'il n'y a aucun changement visible. Il dit, "(le ?) sulfate d'argent est aussi insoluble $;$ donc il a dúy a yoir un précipité; en se servant du nitrate argentique le premier, au lieu de sel de baryte, il a confondu le chlore avece 'lacide sulfurique." IL n'a qu'a ouvrir un onvrage elémentaire quelconques, pour apprendre que le sulfate d'argent est soluble dans 88 parties d'ean bouillante, et à un degré trés considérable dans l'can froide, et il pourra se convaincre aisément par l'expérience, qu'une eau contenant une beaucoup plus grande proportion d'acide sulfurique ou de sulfate soluble que la source de Tuscarora, ne donnera pas de précipité par l'addition d'une solution de nitrate d'argent. Il appren. dra de plus que la méthode méme qui est recommandée

[^5]par Rose et Fresenius, pour séparer le chlore de l'acide sulfurique, est basée sur la solubilité du sulfate, et l'insolubilité du chlorure d'argent.*

Quant à ses commentaires sur le cours de l'analyse quantitative, j'ai seulement à observer qu'il a eu lieu exactement d'aprés la routine proposée par Rose et Fresenius, dans des cas semblables, $\dagger$ et que l'omission d'une seule filtration ou précipitation aurait ren. du le résultat incomplet et indigne de confiance. Les diflicultés qu'il y trouve ne témoignent que d'une ignorance déplorable des notions les plus élémentaires dans la chimic analytique.
(6) Venons en maintenant à la prétendue découverte faite par M. de Rottermund, de l'existence de l'anti. moine dans cette source. Ce métal a été découvert, depuis son annonce, avec l'arsenic, l'étain, le plomb et le cuivre, dans quelques sources ferrugineuses d'Allemagne, et il dit, "M. Hunt voudrait-il me dire quand et par qui l'existence de l'antimoine dans l'eau a été trouvée, et il verra que j'ai été le premicr qui a fait cette importante decouverte pour la science de la chimie et de la médecine; mais je lui dirai que pour le trouver, quoiqu'il est (soit?) plus facile quand on est prévenu, qu'il n'est pas capable même de le constater; car la marche qu'il a suivie et qu'il décrit parle par elle-même."

D'après le ton de ce paragraphe, le lecteur qui n'en saurait pas davantage, pourrait supposer que M. de Rottermund a été reconnu par les autorités scientifiques de l'Europe, comme l'auteur de cette découverte. Mais tel n'est pas le cas; la première annonce dece fait a été faite à l'Académie des Sciences de Paris, à la fin de l'année 1846, par M. Walchner. $\ddagger$ M. Trepier avait avant cette époque, trouvé de l'arsenic dans une cau minérale apporté d'Algerie, et M. Walchner réussit à le trouver dans des sources ferrugineuses d'Allemagne, associé avec du cuivre, du plomb et de l'étain, et dans la source de Weisbaden avec l'antimoine. Cette intéressante découverte a été peu de temps après confirmée par M. Will, qui a trouvé tous ces cinq métaux dans les sources ferrugineuses de Rippoldsau. § Selon Ini, $10,000,000$ parties des trois sources contiennent respectivement $0 \cdot 16,0: 10$, et $0 \cdot 24$ d'une partie d'oxyde d'an. timoine. : . Si M. de Rottermund est, comme il s'en vante, reconnu comme chimiste par les premiers; chimistes de l'Aćadémie des Sciences de Paris, comment se fait-il que sa prétendue découverte ne soit pas reconnue par ce corps, et que lhonneur en soit attribué à un autre? M. de Rottermund affime que je ne suis pas car pable d'én découvrir la présence, "commele démontre la marche que j'ai suivie." A-t.illu mon rapport? Je n'ai suivi aucune marche particulière, ni décrit aucun pro. cédé pour cette fin. Suivant Rose et Fresenius, Il le seul reactif sur lequel on puisse compter pour la sépara-. tion complète de l'antimoine d'avec toutes ses solutions. est, l'hydrogène sulfure on l'acide hydrosulfurique,' qui

[^6]précipite un sulfure orangé, Mais l'eau minérale en question contient dejà de l'hydrogène sulfuré, comme je l'ai fait voir au moyen des réactifs ordinaires; de sorte que le seal procédé auquel on pouvait recourur pour la séparation du métal avait déjà été employé dans le laboratoire de la nature. Le fait que la présence de l'hydrogene sulfure' est incompatible avec l'existence de l'antimoine en solution embarrasse M. de Rottermund, mais il essaje de se tirer d'embarras en s'efforçant de démontrer que l'hydrogène sulturé ne peut pas être présent, en au!ant que, suivant lui, il est incompatible avec le protoxyde de fer, " car l'hydrogène sulfuré, ou l'acide sulfhydrique précipite le protoxydede fer." Quant a la véité de cette assertion, tout commençant sait que les solutions de protoxyde de fer ne sont nullement precipités parl'hydrogène sulfuré. Pour me servir des paroles de Rose, l'hydrogène sulfuré "ne fait pas naître de précipité dans les dissolutions ferreuses nelltres.*' La raison en est que la plus faible trace d'acide peut dissoudre immédiatement le sulfure de fer précipité, et l'on se prévaut de cette propriété dans le cours ordinaire de l'analyse, pour séparer le fer du cuivre, du plomb, de l'gntimoine, \&c., qui sont précipités facilement par l'hydrogène sulfuré, même de solutions acides. $\dagger$ Ceci ne prouve done pas que j'ai eu tort d'affirmer que l'eau contient réellement de l'hydrogène sulfuré et un sel de protoxyde de fer ; mais s'il m'en fallait une nouvelle preuve, j'ai pour moi Mautorité de M. de Rottermund lui-même. Il dit p. 10 de son rapport déjà cité, que les eaux de cette source contiennent les gaz hydrosulfurique et carbonique, du sulfate de protoxyde de fer, du sulfate d'alumine, de la potasse, \&c.; mais maintenant qu'il convient ì son but de prouver que l'hydrogène sulfuré ne peut pas exister avec un sel de protoxyde de fer, il oublie ses premiers'exposés. "Soyez donc compatible" avec vos assertions, M. de Rottermund.
It parle ensuite de confusion dans le prucedé suivi pour la détermination du fer, et montre, pour en dire le moins, une igrorance inexcusable du language ordipaire ou des procédés de la chimie. Je ne dis pas que j'ai trouvé dans la source, soit le protoxyde, soit le per. oxyde de fer, mais que le fer y existe comme protosel; que je le déterminai comme peroxyde, d'après la méthode ordinaire, $\ddagger$ et le calculai ensuite comme proto-sulfate, ou sulfate de protoxyde de fer.
Jé n'ignore pas les obstacles offerts par des matières organiques'a la précipitation de certaines substances minérales; mais la chimie moderne a des moyens bien simples pour surmonter cette difficulté. §"Plus bas, M. de R. parle de l'acide phosphorique; dont jai dit quil existe des traces dans cette source, et dit : "Je suis fâché quil n'ait pas voulu donner la description par quel réâctif, et dans quelle période de l'analyse il l'a remarqué." S'il avait lu tont l'article, il n'aurait pu manquer de voir qu'd la page 152, j'ai décrit pleine-

[^7]ment le procédé suivi, qui est celui que recommande Fresenius pour la séparation de l'acide phosphorique et de l'alumine. *

Pour ce qui est de la "correction" faite dans les analyses de M. Croft, il avait donné dans sa détermination, l'alumine et le fer précipité ensemble comme peroxyde de fer, et j'ai, pour comparaison, additionné les quantités de ces deux ingrédiens, telles que déterminées par moi. La prétendue confusion qui embarrasse et amuse en même temps le critique n'existe que dans son intellect.
Mais voyons pour les chiffres; il demande "qu'estce que cela signifie que M. Hunt trouve dans la mème source la quantité d'acide sulfurique avec la formule $\mathrm{SO}_{3}$ est cusuite $\mathrm{SHO}_{4}$ ?" Ne sait- 1 l pas que $\mathrm{SO}_{3}$ est l'acide anhydre, que, suivant la coutume, on calcule toujours en spécifiant les déterminations d'une analyse, tandis que l'exces d'acide en outre de ce qu'il faut pour former des sels avec les bases présentes, est repiésenté comme combiné avec un équivalent d'eau pour former le composé $\mathrm{SHO}_{4}\left(\mathrm{SO}_{3}, \mathrm{HO}\right)$, qui, dois-je le dire pour l'information de M. de Rottermund, est l'huile ds vitriole, et non İacide de Nordhansen. Comme c'est la seule combinaison stable de l'acide anhydre avec l'eau, il est présumable que c'est celle qui existe dans I'acide sulfuriquue dilué et dans la source de Tuscarora. Siles recherches de M. de Rottermund ont jeté quelque nouveau jour sur les combinaisons de lacide sulfurique avec l'eau, je serai charmé de l'apprendre.
En finissant, je prendrai la liberté de dire que mes observations nout pas été dictées par un sentiment de malveillance envers M. de Rottermund, mais bien par le désir de lui faire voir les nombreuses erreurs dans lesquelles il est tombé, pour n'etre qu'imparfaitement au fait du sujet 'qu'il a traité, et je me flatte qu'il recevra comme venant d'un ami, le conseil que je lui doune de sauver" sa réputation, sinon en qualité d'un "simple citoyen" qui joue le rôle de critique, du moins en celle d'un'chimiste " reconnu comme tel par les premiers chimistes de l'Academie des Sciences de Paris," en gardant le silence, à lavenir.
Laboratoire de l'Exploration Géologique, Montréal, 18 Déc. 1849.

ART. XLVI.-PROCEEDINGS OF SOCIETIES. Pathological Suciety of Montreal. Saturday, November $10,1849$. The President, Dr. Scott, in the chair. Dr. Gill laid before the Society, portions of diseased brain, a diseased heart, and a dried preparation of ossified arteries of the brain, taken from a case of Serous Aporkexy, occurring in his private practice.
Its history and notes, as narrated by him before the . Society, were as follow :-
S. S., aetat 63 , of short stature, thick neck, and ple. thoric habit of body, was formerly a wealthy merchant in this city, but now much reduced in circumstances. About two and a half years ago, he had a paralytic attack, which affected the left side; he was able to

[^8]walk perfectly some time after it, without any halt or apparent deformity in his gait, but he has had an imperfect use of his left arm ever since, which is colder than the right, and much impaired in its motor power. He has enjoyed poor health for many months past, and is comparatively helpless: his once great activity is entirely gone, and he has the appearance of an aged and very infirm man.

He has been under my care, occasionally, since my return to the country, in April last.

On the 12 th August, 1849, I was sent for to see him, at 3 o'elock, p.m. He had had, a short time before I arrived, what the lady with whom he residel called, one of bis, "stupid fits," that is, a total loss of consciousness and power of motion. He was in a second when I arrived.

I found him seated on a chair, speechless, and quite unconscious of what was passing around. His eyes were vacantly staring, pulse small and weak, breathing heavy, but not stertorous, legs and arms quite cold, and rigidity of the limbs, which could only forcibly be extended. I placed him in a horizontal posture on the sofa, and loosed his cravat. Hot bottles were applied to his feet and hands, which speedily restored warmth, and after the lapse of a short time he came to. He had eaten'very heartily at his dinner, and had partaken of a great quantity of bread, so much so, that his prosent attack was attributed to it. He is exceediaigly corpulent, takes no exercise, and is predisposed to apoplexy.

13 th . He had another of these attacke, with rigidity of the right leg and arm, and loss of voluntary motion. On percussion over the heart, dulness existed to some extent, and a diastolic bruit was heard near the left nipple. I ordered a purgative mixture, containing, sulp. mag, pot. bi-tart. and ant. pot. tart, to keep his bowels freely relaxed.
$\therefore$ S p.m. I was sent for, and learnt he had been in a state of stupor nearly all the day. He had taken the doses: of the saline medicine without any effect. I ordered a powder of hyd. chlor. and pulv. jalap.

14th. He slept well until 3 a.m. to day, when his bowels were freely open. But at $10 \mathrm{a} . \mathrm{m}$. he was as bad as ever, quite stupid, and unable to rise. His pulse was labouring, his voice husky, temporal arteries prominent and throbbing, and his face so red from cerebral congestion, that I at once used venesectio from the arm to the extent of fourteen ounces, with benefit.

I saw him twice again before night, he appeared much'better; his pulse was full, but compressible; he was conscious at times, and would reply to a question. t) 15th. Had not passed any urine for thirty-six hours, and his bowels were not completely open.: He was in a perfect : state of stupor, and could not at all be roused, and remained so the whole day. His mouth was drawn to the left side, and his face had pretty much the hippocratic expression: There was a pain? full rigidity of all of his limbs, flexion and extension being both equally difficult. His skin was cool; his pulse: was incompressible, his breathing rough, and towards evening slightly stertorous, with an occasional
interruption of some seconds, followed by a sudden noisy inspiration.

I ordered at $11 \mathrm{a} . \mathrm{m}$, a diuretic draught which had the desired effect ; and a purgative of hyd. chlor. jal. scam. and camb. which not operating by 9 p.m., I ordered, ol. crotonis, miij.

16th, I found no great improvement at $9 \mathrm{a} . \mathrm{m}$; his bowels had been moved twice during the night. At 1 p.m. I was accompanied by Dr. Fenwick, when I introduced a catheter and drew off a few ounces of uniue. A blister was applied to the nape of the neck, and rumning downwards between the scapulæ. In the evening singultus set in, with mucous rales in the larger bronchiw, his pulse was then very feeble: Sinapisms were apphed to the chest's front and calves of the legs. I saw him again at 11 p.m., when I found his breathing and his pulse better, but my prognosis was serious.

My diagnosis was, from the symptoms throughout, possibly an eflusion of blood on the left side of the brain, or pressure upon the medulla oblongata and pons varolii, from cither blood or serous fluid.

37th. In the same state; breathing heavily, with a sertorous whiff; ey elids imperfectly closed; pupils contracted, but dilateable.

He was ordered during the day, hyd. chlor, gr. ij, pulv. jacob. ver. gr. ij, every two hours. In the evening, Dr. Feuwick and myself considered it expedient to open the temporal artery, and took away about eight ounces of hlood, with apparently much benefit, as the pulse, which was before the operation, incompressible and hard, became softer and quicker, 130. Rigidity was now confined to the left arm.

18 th. No apparent change; 9 a. m., skin warm and perspiring since yesterday ; pulse 112, soft: 2 p . m . His head and shoulders were elevated a little, and I drew off his urine with a catheter. He died at halfpast five p. m.
$\mathcal{N}$ ecropsy, eighteen hours after death. Body not much emaciated. Rigor mortis scarcely perceptible.

Cranium. Dura mater healthy, but adherence to the crabium very strong on removing the calvarium. The sinuses and vessels of the brain did not appear congested. On removing the brain, which was found to be rather soft, about an ounce of bloody serum escaped from the base of tho skull, the pia mater and arachnoid at that pari were strongly adherent, and detached with difficulty, the latter membrane was much injected. The crura cerebri were quite soft and disorganized, as if from inflammation. The basilar artery was completely ossified, and the other arteries of the brain were so to a modified extent. On expogn ing the centrum ovale minus and majus, the usual punctiform vascularity was presented. Both lateral ventricles were filled with a clear limpid serum, the septum lucidum and fornix were in a state of ramollissement. On the upper surface of the right corpus striatum, was a cavity the size of a marble; under the microscope, the lining of this cavity was composed of exudation corpuscles, broken up and scattered nerve
tubes and fibres, and granular cells. No pus nor blood globules were found.

On the mesial line of the surface of the left corpus striatum were numerous white lines running transversely from before backwards.

Thorax. Lungs and pleure healthy. A quantity of fat filled up the anterior mediastinum. The peri, cardium contained about half an ounce of serum; the heart was covered with fat, quite empty, and the coronary arteries were ossified, as in the brain ; and through the aorta, in situ, could be distinctly seen patches of atheromatous deposits. On opening the left ventricle, its walls were found extensively hypertrophied, as well as its cavity dilated; the aortic valves were thickened, and much ossified (withont incompetency, from atheromatons tubercles and patches on their aortic surfaces, these latter cxtended upwards into the arch of the aorta, thence to its thoracic and abdominal porions, and into all the great trunks given off from them, more particularly those branches from the arch itself; one large patch, of the consistence of bone, the size of a shilling, existed at the anterior part of the arch, before the giving off of the arterin ianominata, it was nearly two lines in thickness, and its exposed surface resembled the compact texture of bone. Under the microscope these patches presented, tabular and needle shaped crystals of cholesterinc, fat granules in clusters, and free, and isolated cpithelial cells.

Abdomen. Dense subcutaneous adipose substance, the thickness of one inch and a half was ent through on making a section over the linea alba. The omentum was a mass of tat; intestines were healthy; liver enlarged and protruding abuormally upwards, its investing capsule of Glisson was thickened, and conld easily be detached, exposing the sarface of the liver, which was pale and granular, a section with a clean knife greased the blade, and a microscopical examination showed fat granules in abundance, with occasional needle shaped erystals of cholesterine. The kidneys were small and surrounded with fat. Oa the posterior surface of the left, superionly, was an excavated ulcer, the size of a three pence, of a blackish color, the investing capsule over it being loose. They appeared healthy in other respects. The remaining viscera were healthy.

[^9]This almanac is decidedly the best and fullest which we have seen in this country, and is a marked improvement upon its predecessors. It is embellished with an excellent map of Upper Canada, and contains, moreover, information in regard to the British American Provinces of a most valuable character, the collecion of which, must have cost no little time rud trouble.

## PRAGTICE OF MEDICINE AND PATHOLIGY.

Aphorisms on Cholera.-Mr. Dendy read the following propositions to the London Medical Society, Monday on November 19, 1849, as embracing in a few words all that we know of cholera:-

1. The name-Acholera-Because when cholera or gallHux is estahlished, the prognosis becomes favourable. 2. It is the first stare of adynamic fever--Because this fever, in varied degrees, is constantly developed on the subsidence of the flux. 3. The predisposing causes are, anxiety, low living, bad habits, crowded locality, malaria of decomposition. Because the absence of these is proved to be prophylaxis. 4. It is epidemic, and not essentially contagious.-Because there was prevalent establishment of the disorder over a large space of the kingdom in a few days. The exciting cause is a poison imbibed or inhaled, influencing the ganglia, the blood, and the bowels, the symptoms enduring until the poison is destroyed or expelled.-Because spasm, discrasis of blood, and intestinal flux, are the consequences, the blood being rendered unfit for circulation and secretion. 6. That premonitory diarrncea is not an essence of the disease.- Because the epithelial flakes are fewer than in diarricea; and we have, periodically, a severe diarrhea-not formidable, unless a malignant epidemic be prevalent. 7. Diarrhea renders its subject highly susceptible of the malignant invasion.- Because the uterus, during parturition, sn the mucous membrane, during diarrhma is a weak point in the system. 8 . The fiux would probably he a safety-valve to the system, as the pustule of varioia and the exanthem of rubeola, and prove salutary, if the systemic energy were sufficient.-Because many of the highly malignant and speedily fatal cases occurred without the flux, and because, like that of inflammation, its unfeltered intensity destroys. . 9. The result of the malady depends essentially on the resisting power of the system quogd the dose of poison introduced.-Because persons in various conditions and subject to the same influence, evince symptoms of varied intensity. 10. Prognosis must be formed chiefly from re-establishment of suppressed secre-tion.-Because this indicates a renovation of the blood, and the elimination of deleterious matters from he system. 11. There is no specific-i. c., antidote - to it poison yet discovered. 12. The adoption of one remed ?) from isolated experience is unscientific, and its advoc $y$ peilous. 13. The unlimited exhibition of alcohol and opium is unsafe.Because it is followed so often by fever and narcotism.Lon. Med. Gazettc.

## SURGERY.

An Ophthalmological Curiosity.-Miracles; they say, will never cease, and so may we say. We should have at once discarded the affair as a "hoax," were it not that we found it adopted by the continental and English journals. In the Annales d'Oculistigue of Brussels it is dig-, nified with the imposing title of s"L"ceil Phalanstérien," and not a smile displayed in the recital. By the way, no medical editor in the world ever ventures to smile except ourselves; they are all as "sad and learned" as a college of physicians. Joking; however, apart, we are not sceptical as to the tail, it is only the eye at the end of it which provokes our mirth. Tails undoubtedly there hare been found attachell to human spines. Dr. Jacob describes one in the Dublin Hospital Reports amputated from the sacrum of an Irish boy, and quotes another case from the Acta. Nat. Cu: , recorded by one Philip Lochner. The newspa-
pers, too, have been lately telling of a tailed race of men iri the interior of Africa. But the eye : how came that there? Its presence is contrary to all typical law, and sets all transcendental reasoning at defiance. The safest way, however, for us at present perhaps is to look upon the affair as requiring verification. When better informed, we may suggest something respecting it :-
"A letter, of which the following is a copy, was published in a French provincial paper (Le Messager de la Haute-Marne), on the 14th of October. It was addressed to the editor, and has been thought worthy of repetition by the Parisian press: © Sir.-Some days ago 1 was called to attend a confinement at the farm of Combe-auxVaches, which forms, I believe, part of the arrondissement of Langres. The young countrywoman (fermiere), after a most painful labor, which lasted no less than twenty-four hours, gave birth to affemale infant, perfectly formed, but having at the extremity of the vertebral column a fleshy appendage of about four to five inches long, and terminated by a real eye, covered with a thick eyelid. It was not until ten days after the birth of the infant that I was able to satisfy myself of the existence of this extraordinary eye. The pupil, though little dilated, appears to be gifted with great sensibility. At the lightest touch of the finest hair, it instantly covers itself with a contractile membrane. 1 have ascertained that there is no sympathetic connection between the two eyes of the head and that of the caudai appendage, which can remain open when the others are shut, and vice versa. It was not possible to conceal for any length of time from the mother the existence of such a monstrosity. Happily she was not so much concerned about it as they had feared. She contessed to us, that whilst in the familyway she had read some book, of which she could remember neither the title not the author's name, in which it was stated, that at a future period people would all have an elongation of the spine in the form of a tail, at the end of which would be an eye; and the idea had taken such a hold of her mind, that she had come at last to wish to see its fulfilment, on account of the great advantage of such a conformation. No doubt the anxious desire of the young mother, joined to a fervid imagination, had caused the production of this surprising phenomenon. For my part, I have always thought, although by no means a partizan of fanciful ideas, that desire and craving (besoin) are the sole causes of the generation of extraordinary organs, as was assumed by our great naturalist, Lamarck. I have thought it right, Mr. Editor, to make known to the public a circumstance so unusual, which proves of what freaks nature is sometimes ca-pable.-Believe me, \&c. Ravot, M. D."-Dublin Miedical Press.

An Operation to supersedc Castration.-Mr. Taylor, of Alfreton, Derbyshire, suggests that division of the vas deferens would suffice to prevent desire, and that castration might be dispensed with. He believes that desire is caused by the irritation of the vesicula seminales by semen, and that if the arrival of the semen to those reservoirs be prevented, desire will cease. His own words are:-Studying the anatomy of the testicle and spermatic cord, it struck me that an operation might be performed, which would obviate the undesirable effects of the removal of so important an organ, and which would still destroy desire without affecting the seminal secretion, and by this means avoid depriving the animal of his masculine characteristics, which, unfortunately, is done by the present operation. If find that whien sows, (in this neighbourhood,) are what is popularly termed cut, the operation consists, not in the removal of the ovaries, but in simply dividing the Fallopian tubes, thas preventing sexual heat, which would otherwise come on in certain months of the year, and destroying, not only all desire, tu!
all capability of precreation, without unsexing the animal. Now, I humbly opine, that a similar division of the vas deferens in the male would, on the same principle, deprive the animal of desire; and as the testicle would be still effectually nourished and retained in situ, it is fair to suppose that the semen would be secreted as before, and be taken up by the absorbents into the blood, by this means retaining all the masculine characteristics of the animal; but it may be averred by some, that this operation woula not deprive the patient of sexual inclination. Aliowing, as physiologists do, that desire is caused by the irritation of the semen in the vesiculæ seminales, I believe that this operation would be quite as effectual as the total removal of the testicle; as it is a well acknowledged fact amongst horse dealers and others, that a horse old enough for procreation will, after castration, have desite and power to impregnate one femalewith the simen which then fills the vesicula seminales, though of course not more than one. This, I think, is a full proof that desire is created by the irritation of the semen in the vesiculæ seminales, and that division of the vas deferens would be quite as effectual, far less cruel, and attended with much better effects, than the ordinary removal of the testicle. Acting under this impression, 1 placed a dog under the influence of chloroform, dissected the vas, removing an interspace of about three quarters of an inch; the animal recovered pelfectly, the wounds healed by the first intention, and I took the first occasion that occurred to place him with a hitch in use, when his conduct plainly showed that all tendency to perpetuate his species was gone.-Lancel, Oct. 27.
[We cannot agree with the author in the view he takes of the origin of sexual desire; the fact of the castrated horse being capable of one copulation may be otherwise explained. We believe the instinct to be partly psychical and partly physical, and that a due nervous correlation between the cerebellum and testicles are necessary for its manifestation. The question, however, admits of a very ready solution by experiment.-Ed. Prov. Med. \& Surg. Journal.]

Extraction of Foreign Bodies from the Cavity of the Mouth and Gullet.-By M. Dieffenbach.-[The subjoined extracts are taken from some valuable papers, published in the Medical Times, by Dr. Bushnan.]
Foreign bodies become fixed in the mouth only after having penetrated the mucous membrane, and are easily removed. When situated in the fauces or gullet, they create intolerable irritation, and eventually inflammation, if of a sharp or acrid description. Their immediate removal is therefore indispensible where there is a prospect of this being accomplished without operative interference," an endeavour may be made to provoke vomiting, by thrusting down the end of a feather dipped in oil; if the patient has the power of swallowing, an emetic may be exhibited by the moth, or under urgent circumstances, injected into a vein. This treatment can apply only to small substances, for, if large and firmly impacted, the gullet may be ruptured. In all examinations with instrumente, the tongue ought to be depressed to the utmost.
The body in question must either be withdrawn, or hurried into the stomach. The first course is the hest, the last often dangerous. Venesection is occasionally indicated. Should everything fail, cesophagotomy is the sole alternative.
The substances which lodge in the fauces are generally small and pointed, such as fish bones and needles, most frequently the former. The ratient being seated, is directed to gape and make a deep inspiration, whereby the velum is elevated, and the surgeon enabled to detect and extract the bone with forceps. A lady, after eating some cake, suddenly
shrieked with pain. I could perceive nothing about the neck, but on carrying my forefinger to the back of the tongue, brought away a long thick bristle, which lay archwise across.

Foreign boäies observe in their transit certain stations at which they halt; thus, in the pharynx, behind the thyroid and cricoid cartilages. in the beginning of the gullet, or at its lower end, close to the diaphragm or cardia. They seldom'stop at the middle of the gullet. If very large, they may cause suffocation; thus a large piece of meat, or a hardtoiled egg, a pear, a chesnut, have each proved fatal. Gnattani witnessed the most frightful death ensue from a chesnut ; the part of the gullet at which it stuck was gangrenous. Spiritus saw the same result follow the swallowing of a five-franc piece, which perforated the gullet above the cardiac orifice. Needles, inadvertently swallowed, pierce sometimes the gullet or stomach, advance by the aid of suppuration or otherwise towards the surface, and either escape spontaneously or through incision. Lyson observed a case where three needles that went in at the mouth came out at the shoulder; I have known one issue at the arm.

The procedure must be modified according to the nature of the substance. None but a bungler would attempt to disgorge a piece of meat sticking at the cardiac opening, or urge on a fragment of glass from the gullet intio the stomach. External pressure will suffice potatoes or plums when stuck in the throat.
For the withdrawal of needles, tish-bones, and the like, there is no better implement than a large goose or swan quill-feather, with the batbed portion rufled, imbued with oil. The patient sits with his head leaning upon the breast of an assistant, while the surgeon lowers the tongue, then introduces the feather, with its concave side downwards, into the throat, turns it rapidly, round, and draws it out. The popular practice of swallowing a crust of bread is sometimes availing, but may also increase the peril when arrested above the bone. A sudden slap on the back is by no means a bad plan, when the substance is large and obtuse. It is preferable to that of setting the patient on lis head, as was done in the instance of Mr. Brunel, to promote the expulsion of the half-sovereign piece.
The principal instruments employed for the present purpose are of the description of forceps. Dupuytren advises, as a preliminary step, the introduction of a gum-elastic tube, surmounted with a sil ver ball, in order to ascertain the position of the foreign body. This, however, is superfluous, and will tend, moreover, to augment irritation. Cooper recommends the forceps of Weiss. The so-called leaden hammer of parlier writers consisted of a lead hall attached to a string, which was let down the throat, and pulled up again. Mesnier's lead hammer was of an olive shape; Petit's was equipped with a wire instead of a string. Petit used, hesides, a metal noose fastened to a whalebone stem; Fabricius Hildanus a many-holed silver tube, provided below with a sponge. The double ring of Graefe, attached to the end of a rod of whalehone with a sleel spring, is very convenient for taking pieces of money out of the throat. The customary instrument, termed répoussoir, or probang, namely, a bit of sponge as big as a walnut, stuck to the end of a whalebone rod, is generally useful either for entangling fish-bones and the like, or propelling large round substances. My own procedure is as follows: if the hody be small and sharp, I employ the oiled feather as above described. An oiled wax taper, passed down to the cardiac orifice, has proved serviceable; for, as soon as withdrawn, the body has been rejected. If the body be large, as a portion of flesh-meat adherent to a fragment of bone, I use a lithotrite with an inperforate scoop, and rather straight. The instrument is introduced with the blades closed, until it arrives at its destination, when these
are to be separated sufficiently to grasp the substances, and afte: a few gentle turns, withdrawn.

When there is impending suffocation from the presence of very large bodies impacted in the throat, some enjoin tracheotomy before resorting to opeting the cesophagus. I bave never been compelled to this extreme mexsure. The most difficult thing to deal with are sets of false teeth when swallowed. I once relieved an old lady in this predicament by means of my fingers. On several occasions I have removed, with curved polypus-forceps, froin three to four teeth attached to gold plate, and which got accidentally into the throat ; once, by the aid of an emetic, as a last resort, a set of four teeth very deeply located.

In all these operations the patient is io be in a sitting posture, the head properly supported; the mouth rinsed with tepid water, tepid water mixed with white of egg taken as a drink, and the instrument smeared with white of egg rather than with oil.

Exlraction of Forcign Bodies from the Vugina.-By M. Diefrendach.-For this purpose the surgeon may cornmonly use his fingers or a polypus-forceps; but if the foreign body be bulky and wedged in, the bullet or lithotomy-forceps and bood hooks. The patient being seated upon the edge of a table, facing the light, with the thighs held widely apart by two assistants, the surgeon squits a little oil into the vagina, examines the nature of the body with the fingers and speculum, then passes up the forceps previously oiled, gradually opens them, insinuating one blade behind the body, and finally withdraws it in the line of the pelvic axis. This is nowise difficult, when the bedy is not very irregular in shape, and the paris are not inflamed or swollen. Where, on the contrary, the vagina is contracted and deprived of elasticity through inflammation and puriform secretion, and the substance large, it must be broken up into fragments and taken away piccemeal.
After its removal the vagina ought to be well syringed, and the patient put into a warm bath. Mucilaginous decoctions may be suksequerily injected, and the parts fomented with infusion of chamomile and Goulard lotion.
Foreign bodies in this situation are of every variety. If allowed to remain long, they determine inflammation, suppuration, and rupture of the vagina, either into the rectum or the bladder. Thus communication with these cavities, and effusion of their contents into the ragina, is the obvious result. Foreign hodies, if sharp and amgular, occasion now and then dangerous lesions. I ouce had to remove from a young lady a number of different-sized fragments of a porcelain urinal which had broken under her. The labia were severely wounded, and the vagina completely filled with the sheartl. The hemorrhage was so excessive as to have caused fainting. I extracted the whole by means of polypusforceps, and inserted a few fine sutures. The wounds healed promptly. Large, incrusted, and firmly-adherent sponges were removed by me with lithotomy-forceps, as also a variety of full-sized wooden pessaries, all in like manner covered with a crust. Some of these I was obliged to break, using several forceps, with the aid of assistants, or else cut them in balf with Liston's bone-scissors. Morand withdrew from a lady a silver pessary through the openings. in which bridles had shot across, and held it fast. Dupuytren extracted from a nymphomaniac a pomatum pot; on another occasion an old ing-pessary, which was wedged in, and caused most urgent symptoms. A girl introduced the cone of a pine into the vagina. The sharp imbricated scales got lodged in the mucous membrane, and were picked ont one by one after the cone had been cut in pieces. Ths ragina was excessively turgid.-Medical Times.

## MIDWIFERY.

On the enfluence exerred by the Male on the constitution and the Reproduclive Powers of the Female.By Alexander Harvey, M D., Lecturer on the Practice of Medicine in King's College, Aberdeen. Instances are sofficiently common among the lower animals, where the offspring exhibit, more or less distinctly, over and beyond the characters of the male by which they were begotten, the peculiarities, also, of a male by which their mother had at some former period been impregnated; or, as it has been otherwise expressed, where the peculiarities of a male animal that has once had fruifful intercourse with a female, are more or less distinctly recognized in the offspring of subsequent connexions of that female with other males. A young chestnut mare, seven-eighths Arahian, helonging to the Earl of Morton, was covered in 1815, by a quagea, which is a species of wild ass from Africa, and marked somewhat after the manner of the zebra. The mare was covered but once by the quagga; and after a pregnancy of eleven months and four dars, gave bith to a hybrid which had distinct marks of the quarga, in the shape of its head, black hars on the legs and shnolifers. \&e. In 1817, 1818, and 1821, the same mare (which fiad in the meantime passed into the possession of Sir Gore Oncelv), was covered by a very fine black Arahian hnrse. and proniuced snecessively, thrae foals, all of which bore unaquivoral marks of the quagga. Several nther examples illustrative of the general fact ahove stated will presently be given.

Great dificulty has been felt bv phvciological writers in regard to the proper explanation of this kind of phenomena. They have heen ascribed by some to a permanent impression made semehow by the semen of the first male on the genitals, and more particularly on the ova, of the female; and by others to an abiding :nfiupnce exerted by him on the imagination of the female, and operating on her mind at the time of her connexion subsequentlo with other males, and perhape during her pregnancy. But they seem to be regräded by most physiologists as inexplicahle.

Very recently, in a paper published in the Aberdeen Journal, an intelligent veterinary surgeon, Mr. James M•Gillipray of Huntly, has offered an explanation, which seems to me to be the true one. His theory is set forth in the following statements quoted frome that paper: "When a pure animal of any-breed has been pregnant to an animal of a different breed, such preguant animal is a cross ever after; the purtty of her blood being lost, in consequence of her connexion with the foreign animal;" and again: "If a cow, say of the pure Aberdeenshire breed, is in calf to a sull of the shot-horn breed (known as the Teeswater breed), in proportion as this calf partakes of the nature and physical characters of the bull. just in proportion will the blood of the cow become contaminated, and herself a crose, for ever incapable of producing a pure calf of any breed." "It is maintained, therefore (Mr. M'Gillivray adds), that the great fariety of non-descript animals to be met with are the result of the crossing system; the prevailing evil of which is, the admission of bulls of various breeds to the same cow, whereby the blood is completely vitiated."
In explanation of his theory, Mr. M•Gillivray enters into particulars as to the nature of the contexion subsisting between the fetus in utero and its mother, with ihe view of showing: (what seems to him essential to the validity of the theory) that there is a dircet vascular communication between the two; and that, while a portion of the mother's blood is continually pissing by direct transmission into the body of the foutus, the latter returns to the former so much of that blood as is not needed by it, and that this superfluous blood, after circulating through the system of the fetus,
passes as directly into the system of the mother, and commingling with the rest of her blood, destroys ius purily, conlaminates. vitiales it.

Mr. M'Gillivray is quite wrong, I apprehend, in assumng that there is in any case, 2 direct vascular connexion brtween the foetus and its mother. Nor does ihe assumption appear to me at ail necessary to establish the theory. But waiving, for the present all discussion of that point, it it may here be ohserved, that Mr. M‘Gillivray regards the influence exerted by the male on the female animal, through the medium of the fætus, as constitutional ; and perhaps the hest generai expression of the theory is, that the fetus, partaking, as it must, of the characters or peculiarities of its father, inoculates therewith the blood, and generally, the system, of its mother.
The subject now opened is certainly one of great interest in general phesiology, as well as of considerable practical importance to breeders. It cannot but be interesting to inquire whether the lact instances in Lord Morton's mare, is or is not a general law in animal physiology; and if it be, whether and how far it is modified, in its nperation, in different animals, and under different circumstances. But to the haman phesiologist, and to the physician, it is of more immediate interest to inquire whether or not the fact ex:ends also to his own speries; and if it doe:, to ascertain how far it applies: and whether it does not admit of illuctration hy, and serve itsell, in its turn, to illustrate certain known facts in regaril to the communication and the constitutional effucts of the syphilitic and other mortific poimne, the scrofnious diathesis, \&c. And, in particular, it can hardlu fail in suggeat some such curinus quastions as the following-viz:

1st. Whether, in the case of a woman who has heen twice married, and borne children to both husbands, the children borne to the second hushand"ever, or generally, partake of the peculiarities of the first hushand?
2nd. Whether in a family of several children, the vonnger children rather than the elder, are disposed, coteris paribus, to exhibit the characters of the father?
3rd. Whether a woman who has horne several children hy the same bushand, may not ullimately acquire some of tue physical characters, or at least imbibe and manifest some of the morbid tendencies, of the latter?
In treating further of this singular subject, I shall first state the facts at present known to me regarding it, and $s_{c}$ condly, considfer the theories offered in explanation of it.

1. In regard to the facts of the subject, these will be inost convenienlly noticed, first in relation to the lower animals; and, secondly, in relation to the human species.
(1.) As regards the brute creation:-Besides the instance already quoted of the mare belonging to Lord Morton, there is another similar case recorded. A mare belonging to Sir Gore Onsely, was covered by a zebra, and gave birth to a striped hybrid. The year following, the same mare was covered by a thorough-bred horse, and the next succeeding year by another horse. Both the foals thus produced were striped-i. e., partook of the characters of ibe zehra.* And it is stated hy Haller, and also by Becker, that when a mare has had a mule by an ass, and afterwards a foal by a horse, the foal exhibits traces of the ass.
In the foregoing cases the mares were covered, in the first instance, by animals of a different species from themselves. But cases are recorded of mares covered in every instance by horseg, but by different horses on different occasionswhere the offspring partook of the characters of the horse, by which impregnation was first effected. Of this Mr. ficGillivray gives two examples. Thus, in several foals, in $^{\text {g }}$ the royal stud at Hampton Court, got by the horse Actcon,

[^10]there were unequivocal marks of the horse Colonel,-wthe dams of these foals were bred from by Colonel the previous year. Again, a colt, the property of the Earl of Suffield, got by Laurel so resembled another horse Camel, "that it was whispered, nay, even asserted, at New-Market, that he must have been got by Camel." It was ascertained, however, that the mother of the colt was covered, the previous year, by Camel.

It has often been observed also, that a well-bred bitch, if she have been impregnated by a mongrel-dor, will net, althongh lined subsequently by a pure dog, bear thoroughbred puppies in the next two or three litters.

The like occurrence has been noticed in respect of the sow. A sow of the black and white breed (known as Mr. Western's breed) became pregnant by a boar of the wild breed, of a deep chestnut color. The pigs produced were duly mixed, the color of the boar being in some rery predominant. The sow being afterwards put to a boar of the same breed with her own some of the produce were oiserred to be stained or marked with the chestnut color that prevailed in the former litter. And, on a subsequent impregnation, the boar being still of the same breed as the sow, some of the litter were also slightly marked with the chestnut color. What adds to the value of the fact now stated is, that in the course of many years' observation, the breed in question was never known to produce progeny having the smallest tinge of the chestnut color."

Breeders of cattle are familiar with analogons facts as occurring in the cow. A pure Abeudeenshire heifer was served with a pure Tepswater bul!, to whom she had a first cross calf. The following seasom, the same cow was served with a pure Aberdeenshire bull; the produce was a cross calf, which at two years old had very long horns, the jasents both hummel. A pure Aberdeenwhire cow was seited in 1845, with a cross bull-i.e., an animal produced hetween a fist-cross cow and a pure Teeswater bull. To this bull she had a cross calf. Next seasnn she was served with a pure Aberdeenshire bull,-the calf was quite a cross in shape and color.
Mr . M•Gillivray, after narrating the whole of the foregoing examples, says:--" Many more instances might be cited, did time permit. Among cattle and horses they are of every day occurrencc."
(2.) As reqards the humain species. The facts bearing on this division of the subject are exceedingly few, and not to be relied on: and the observations which follow are intended rather to suggest and direct, than to satisty, inquiry. Dr. A. Thomson, in his article on Generation, in the "Cyclopadia of Anatomy and Physiulngy," remarks:-" It is affirmed that the hurran female, when twice manied, bears occasionally to the second busband, children resembling the first, both in bodily structure and mental powers." And Dr. George Ogilvie, of this city, informs me of a case, which fell under his own observation, where a woman was twice married, and had children by both husbands, and where the children by hoth marriages were scrofulous, allhough only the first husband had marks of that diathesis; the woman hersell, and her second husband, being to all appearance quite healthy.

Dr. Ogilvie's case is clearly beset by somany sources of fallace, that we cannot venture at present to regard it as a case in point. Dr. Thomson does not bring forward any in-

* Philusphical Transactions for 1821,p.23. "Apart from a state of domestication," saya Mr. MeGillivrav, "I da not believe that there is oue solitary instance in which an animat has pro. duecd offepring of various colors. Animals left cutirely to the operation of natural canses, never exhbit this sporting of culors; they are to be distinguished by various and often banatiful shades of color ; but then each species is true to its own family type, even to a few hairs or small parts of a feather."
stances, nor offer any proof, in support of his statement ; and indeed he gives $i$ i, without saying whether he thinks it well or ill-founded. Any such statement, it is plain, based on observation of the children of European parents,-i. e., where the female and both her husbands and their children are all white-must be comparatively difficult of verification ; but it is equally plain that means exist for subjecting it to a pretty decisive test. There are equally distinct breeds of the human fomily as of any of the lower animals; and all that seems requisite in regard to determining the question undet consideration is, to observe accirately, whether the children of Eutopean parents, where the women has, in the first instance, had offiping by a negro, exhibit traces of the latter in the color of the skia, the form of the features, Ecc .; or, vice vers $\dot{x}$, whe ther the children of negro parents, where the woman had, first of all, heen impregnated by a Earopean, exhibit the peculiarities of the latter. Of the former case; a medical triend informs me that he recollects hearing of an instance of the kind as ocruring in this neighborhood, but aannot voach for the truth of it. Of the latter case, if the general fact applies to the human species. instances must abound in our West India colonies, in the Usited States of America, and in other parts of the world. My colleague Dr. Dyce tells me that he has certainly known one instance (if not mote) where a creole woman bore fair children to a white man; and that the same woman had afterwards to a creole manother children, who bore much resemblance to the white man, hoth in features and in complexion. But two very intelligent friends-the one a West India proprietor, the other a medica! man-both long residentin Jamaica, tell me that they never noticed, nor ever heard, of an instance of the kind, although connexions of that sort are common there, and children borne under such circumstances very numerons. It is singular indeed, if instances of the fact in question so occur, and still more if they are of frequent occurrence, that they should not be notorious. It is conceivable, however, and by no means improbable, that cases do exist, but that they have been ovellooked from the traces of the Eutopean twing so minute as to escape ordinary observation, and the fact have remained urknown, from special attention never baving been directed to it.
If the male dors exert any such influence as is here in question on the constitution and the reproductive powers if the female, it is conceivable that, by each'successive impregnation effected by him. that influence may be increased; and, if so, the younger children berotten by him, rather than the elder, misht be expected, coleris paribus, to bear their father's imare. And this more special fact, if ascertained, would establish alio the no general one. I am not aware, however, of any specific facts bearing upon it, rior of any popular notions regarding it. But my colleagne Dr. Laing, is cognisant of the rase of an English gentleman who had a large family by a negro woman, in the West Indies, and where the chilten sucesssively exhibited more and more the European features and complexion.
But howe ver this'my be, there is a popular helief that, in the course of years, a woman comes to resemble her husband, and that not merely in respect of temper, disposition, or habits of thought, but in bodily appearancr. : But, in so far as the notion may hold good, it may be true only of the features, and of these only as they iadicate or bespeak the inward feelings of the mind, which, from long and familiar intercourse. may, to a certain extent, become common to man and wife. Ii so far as the notion is true in any other respect, and the parties have had several children, it may sutgest the question, whether the assimilation is not referable to an influence exerted by the husband, through the medium of the fetus in utero, on the constitution of the wife? The question is probably an idle one, and the notion oniy a popular error. In so far, however, as there is any -
thing in it, the explanation suggested gives a peculiar, and it may be added, a physiological significancy, to the Janguage of Scripture relative to man and wife, at least when their intercourse has been fruitful--" They twain shall be one flesh."
It is of more immediate interest, however, and of greater practical moment, to ascertain whether, through the inedium of the foctus, the hushand may impart to his wife either the syphilitic yirus, or the scrofulous diathesis, or any other constitutional morbid tendency-(e.g. insanity) which be may possess. Facts are wanting on this subject ; but it is not undeserving of patient enquiry. Dr. Ogilvie's case, formerly referred to if 'it could be relied on, would be an instance of it. Before the mother conld have imparted the scrofulons taint to her offspring by the second husband, she must herself have imbibed it from her first husband, through the inedium of his offsyning while in utero. And, although still seemingly free of the taint, it may have required only the appropriate external conditions to call it quto full activity in her own person. And, with regard to the syphilitic poison, there is no difficalty in understanding, and it is quite within the bounds of probability, that the fectus, if contaminated with it by its father, may convey it to the mother. Messrs. Maunself and Evanson, after mentioning that they have notes of the case of a syphilitic child, whose mother had heen infected by a former hushand (they do not say in what way)-and to all appearance cured five years before its hirth-the father of the child (her second husband) being in good health, state that their experience would enabie them to adduce many cturions facts bearing no the communication of the syphilitic poison. Perbaps their experience might furnish an affirmative solution of the question at issue. It has been affirmed that a man who has once had syphulis, but been seemingly cured of it for many years, may yet so retain the taint of it as to contaminate his offipring, without, at the same time, tainting his wiff. Very possibly. But this does not prove that lin may- iot-contaminate his wife also; and the observation itself is in that respect fallacious, inasmuch as, in any given case of the kind, the wife may really have imbihed the virus, although in a latent form, and might subsequently give proof of the reality of the fact by tainting the offspring begoten by another and a perfectly healthy husband. Adopting this view, it may be found of importance, in contemplating marriage with a widow, to inquire into the constitutional peculiarities of her deceased husband!
II. Of the general fact now under consideration, and clearly established in respect of the lower animals, only two explanations, that are at all rational, have been offered. The first is that suggested by the great Haller, who ascribes it to a permanent impression made by the seinen of the male on the genitals, and more particularly on the ova, of the female; the second, that suggested by Mr. M'Gillivray, who ascribes it to an influence exerted by the fetus in utero on the constitution of the mother. The notion entertained by Sir Everard flome and others, that it is an affair of the imagination, seems too absurd to require serious consideration.
Haller's' knowledge of the subject appears to have heen very limited, and his explanation of it to have been offered incidentally. He was aware that when a mare has had a mule by an ass; and afterwards a foal by a horse, the foal exhibits traces of the ass; and he reinarks "that the female organs of the mare seem to be corrupted by the unequal copulation with the ass; ;-i.e., that the semen of the latter exerts an influence on the genitals, and of course on the ova of the mare, which appears subsequently on the impregnation of these ova by males of her own species.

[^11]It may be stated, in support of Haller's theory, that, in the case of birds, a single intercourse is known to impregnate many eggs which are laid successively after it; hut, on the other hand, the influence of such intercourse extends only to the eggs of one season, or rather of one brood-the several eggs being laid in tolerably quick succession, and all of them probably in a state of maturity, and actually impregnated at the time of that intercourse. This fact, therefore, goes hut a short way to favor Haller's theory, and it may indeed be said to tell as much against as for it. And if it shall be clearly ascertained (as seems presently to be the belief of physiologists), that any single ovum remains but a short time in the ovary, Haller's theory must be given up. But even if it could be siown that an ovum may remain in the ovary for a series of years, the fact would be of little value, unless it could also be shown that the semen can exert some definite kind of influence on an ovum, which it does not at the time actually impregnate. There seems litle probability, however, of this being done; and there is one fact known in regard to the ova which makes it difficult to conceive it possible-the fact, namely, that unripe or immature ova lie deenly imbedded in the stroma of the ovary.

Mr. MrGillivray's theory seems to me to meet the whole facts of the case, and to derive support from a great variety of facts in regard to the reception and constitutional effects of morbific pmisons and morbid diatheses.
Mr. MuGillivray, indeed, supposes, as vas formerly noticed, that there is a direct vascular connexion between the foetus in utero and its mother; and he seems to consider the vaitelty of his theory to hinge on this assumption. The assumption, however; is mentenable, nor is it at all necessary for the establishment of the ineory. The researches of Dr. John Reid and of Mr. Goodsir, on the structure of the placenta, have demonstrated that the comnexion is inditcet only-the fetus and the inother imbibing materials from each other, very much in the same way that the lactoal vessels take up the nutritive portions of the food in its transit along the small intestines; or that the roots and leaves of vegetables take up nowrishment from the soil and the atmo:-phere-the materials imhibed, in each case, pasing, through a pervious; but not a perforated tube or membrane, and being, taken up by a real act of absorption, during which act they are more or less altered in their character, or assimilated. But, independently of the considerations now stated, it appears front the observations of Prevost and Dumas, and of others, that the corpuscles of the fetal hlood are differently shaped from, and, in the later stages, larger than those of the mother-a fact which shows, at least, that no entire corpascles of blood are transmitted from the one to the other, and, indeed, taken in connexion with the facts ascertained as to the structure of the placenta, proves that it is by transudation only, that the contents of the uterine and fertal vessels mutually pass into each other.

In doing so, the materials in question are more or less altered in their character, or undergo what physilogists term a process of assimilation. In the case of the lacteal vessels, the chyle which they contain can never be detected as such in the alimentary mass: nor is the sap of vegetables precisely the same fluid that exists in the soil and in the air. In like manner, the blood in the umbilical vessels doubtless differs from that existing in the uterine sinuses. At the same time the assimilating process does not go the length probably in any case of wholly changing the character of the fluids concerned in it; and there is reason to believe that, in different cases, it proceeds to a very different ex-tent-in some the change effected being to a less extent
character, not only on the nvam then impregnated, but on the three following ova impregnated by horses.". Handbnok or Thy. siology, p. 614. Such, too, is Mr. Mopy's view. Physiology, 2nd Ed., p. 490.
than in others. And possibly, in the case of the fretus and its mother, the amount of the assimilation is not considerable.

No interchange of corpuscles takes place, but in respect of the other constituents of the blood, it is difficult to conceive why they should not be transmitted nearly unchanged. Professor Simpson of Edinburgh has recently shown that the small-pox virus may pass unaltered from the mother to the child in her womb, and produce in it the actual disease, pven although, by reason of previous vaccination, the mother may herself remain unaffected by it. And a similar fact has long been known in regard to the transmission of the syphilitic virus from the mother to the foetus in utero.

We can, therefore, have no difficulty in understanding, in respect of the foetus itself, that, although its comexion with the mother is indirect only and merely to the extent of allowing the passage of the liquor sanguinis, and although this may even be so far altered in the passage, the constitutional peculiarities, derived to it from its father, and inherent in its blood, may, with the blood, be imbibed by its mother. And when we reflect on the length of time during which the connexion between them is kept up, the amount and the activity of interstitial change contturally going on in the system of the fotus, the large quantity of fretal blood that must eventually be taken into the vessels of the mother, and the probability that the peculiar matter imparted by the male parent to the ovum at the monent of impregnation (be its nature what it may, and its quantity never so infinitesimal), assimilates, like a ferment, much of the fetal hlood to itselt, it does not seem too hard to be believed that the blood and constitution generally of the mother may thereby become so imbued with the peculiatities of that parent, as to impart them to any offspring she may subsequently have by other males.

Aberdeen, April 30, 1849.
Appendix.-I. In the foregoing paper a guestion occurs as to whether, in the case of a woman who has been twice marries? and borne children by both busbands, the children of the second marriage ever resemble the mother's first hisband?

The following additional cases, illustrative of this question, have recently been communicated to me: the first by my friend the Rev. Charles M•Combie, of Tillyfour, minister of Lumphanan, in Aberdeenshire; the second by Professor Simpson of Edinburgh; and the third by Professor Pirrie of Aberdeen :-

1. Mrs. , a neighbor of Mr. M‘Combic, was twice married, and had issue by both husbands. The chiddren of the first marriage were five in number; of the second three. One of these three, a daughter, bears an unmistakeable resemblance to her mother's first husband. What makes the likeness the more discernible is, that there was the most marked difference, in their features and general appearance, between the two husbands.
2. A young woman, residing in Ellinburgh, and born of white (Scottish) parents, but whose mother some time previous to her marriage had a natiral emulatos) child, by a negro man-servant, in Edinburgh, exhibits distinct traces of the negro. Dr. Simpson, whose patient the young womari at one time was, has had no recent opportunities of satisfying himself as to the precise extent to which the negro character prevails in her features; but he recollects being struck with the resemblance, and noticed particularly that the hair had the qualities characteristic of the negro.
3. Mrs. H——, apparently perfectly free froin scrofula, married a man who died of phthisis. She had one child by him, which also died of phthisis. She next martied a person who was to all appearance equally healthy as herself, and had two children by him, one of which died of phthisis, the other of tubercular mesenteric disease-having at the same time scrofulous ulceration of the under extremity.
II. In connexion with the constitutional influence exerted by the male, through the medium of the fretus in utero, on the system of the female, another and a very singular question may be raised. In the case of an aboriginal woman of color, does previous impreguation by. an European male render the female incapable ever after of fruitful intercourse with a male of her own race?
This question is suggested by an observation, made in various parts of the world, by the excellent Count de Strzelecki, relative to the effect of fruitful intercourse between an aboripinal female and an European male. "Whenever such intercourse takes place," says the Count, "the native female is found to lose the power of conception, on a renewal of intelcourse with the male of her own race, retaining only that of procreating with the white men.'"
This, if a general fact, contrasts remarkably with Dr. Simpson's case, above mentioned (one of fruitful connexion between a white man and a white woman, after previous impregnation of the latter by a black man), unless, indeed, this be, which probably it is not, an exception to an equally general fact of the same sort. "It would limit, also-nay, ahsolutely exchade, opportunities of observing whether children born of dask parents, where the mother formerly had issue by a Furopean male, exhibit traces of the latter. But it was befure stated on the authority of two gentlemen long resident in Jamaica, that in our West India colonies-in Jamaica at least-fruitful connexions of this kind are of commori occurrence, and (which I mention at present as in keeping with this) on the anthority of Dr. Dyce, that, in children born under such circumstances, marks of the European have been observed. Special inquiry, made recently, has served so far to confirm these statements, but not to satisfy me that the issue of such comexions is numerous.

The oppoltunities, however, enjuyed by the count Strzelecki, of making ohservations as to this point, in most parts of the new world, have been very great. "He has lived much (to use bis own words) amongst different races of aborirines- the natives of Canada, of the United States, of California, Mexico, the South American republics, the Marquesas, Sandwich, and Society Islands, and those of New Zealand and Australia. And, referring to the statement made by him, and already quoted, the count observes"Hundreds of instances of this extraordinary fact are on record in the writer's memorinda, all recurring invariably under the same circumstances, amongst the Hurons, Seminoles, Red Indians, Yakies, (Sinaloa,) Mendosa Indians, Araucos, South Sea lslanders, and natives of New Zealand, New Sonth Wales, and Van Diemen's Land ; and all tending to prove that the sterility of the female, which is relative only to one and not io another ma!e, is not accidental, but follows laws as cogent, though as mysterious, as the rest of those connected with generation.
Straelecki does not state to what extent, or indeed, whether, he has met with exceptional cases-i.e., cases where, after connection of the kind in question, fruitful intercourse has taken place between a native man and woman. This it would be important to know. It seems not improbable, at least, that such cases may have been observed by him. They would not indeed, even were they numerous, invalidate the inference obviously drawn by him from his other observations, provided they were really exceptional. They would merely show that the fact does not hold universally or absolutely. But should the inference he in the meantime disputed, as I think it well may, it can only be determined in the affirmative; by proofs of the same general kind with those by which (for example) the contagious property of certain diseases is established-to wit, by comparative obervations on the large scale, showing, - First, that native females who have once had fruitful connexion with European males, are, subsequently, as compared with otter na-
tive females who have had no such connexion, much less: fruitful with males of their own race; and second!y, that no other common circumstances, save that of such connexion, can be ascertained to exist in the case of most of the women that become barrer, and not to exist in the case of most of those that are fruifful.

If future inquiry thus directed shall verify the inference, which at present can only be regarded as an hypothesis, it will establish a general principle in the physiology of generation of the highes! interest and importance. Assuming, howe ver, that it is well founded, and will hereafter be proved to be a fact, it were vain, perhaps, in the present state of our knowledge, to attempt an explanation of it; but with regard to its bearing on the subject of this paper, I am inclined to think, from the facts already adduced in these pages -uncertain as some of them may be-that the sterility is quite as likely to be owing to the system of the female being somehow altered or affected, during her pregnancy, by the feetus begotten by the European, as to a local change in the general mass of ova effected by the mere act of intercourse -i.c., the mere application to them of the semen of the European. Our knowledge, indeed, of the conditions essential to impreguation, and of the mode in which it is accomplished, does not warrant us to say that the change cannot be exclusively local. But the facts ascertained of late years as to immature ova occupying the centre of the ovary,--as to the ova undergoing a process of maturation and coming to the surface of the ovary, prior to, and in order to, impresnation, -and as to the mature ova passing of at each monthly periol, and becoming blighted when not impregnated, tend rather to set aside the notion of local affection. and therefore to give probatility to the other view. And if this other view should be established, the fact itsplf would clearly furnish additional testimony to the docirine, and would merge in the still more general fact, that the felus in utero does inoculate the system of the femate with the peculiarities of that of the male. The alleged relative sterility of the native female, after inlercourse with the European male, is brought forward (it may he added) by Strzelecki as affording an explanation, and as being the chief cause, of the gradual diminution and ultimate extinction of the native tribes in most parts of the new world, which follow the introduction of the European races. "Whereever the white man has set his font-mark, there the print of the native foot is obliterated ; and as the tender plant withers beneath bis tread, so withers the aboriginal inhabitant of the soil." And "humaninterference;" says Strzelecki, "to a vert this melancholy consequence has been hitherto of no avail ;-a charter for colonisation granted to one race becomes virtually the decree for the extinction of the other. ${ }^{\prime \prime}$ *

Very various canses, doubtless, concur to hring abont tiois result. The one assigned by Strzelecki as the chief is atbviously quite adequate, if a real one, to its production. And should his belief as to the reality of this cause be confirmed, and if it shall farther appear, that the principle involved in it applies only to aboriminal females contaminated by European males, and not to European females contaminated by aboriginal males-i.e., should the former class of females

[^12];only, and not the latter, be rendered sterile to males of their own race by such foreign intercourse, the discovery can scarcely fail, not merely to exhibit the predominancy of the white over the dark races of men; in a particular not previously suspected, but to indicate that the designs of Providence, in regard to the human family in this stage of existenee, embrace the ultimate extinction of the primitive varietips of the dark races. Theirphysical peculiarities and their social degradation-a mystery, if not a standing memorial of a curse visited on their progenitors, in the times of miraculous interposition ; the purpose of their existence in respect of this earith-a mystery also, yet somehow subservient, seemingly, to that of their more favored brethren; their end after that parpose is served-extirpation? But these are questions which, besides that they are foreign to the object of this paper, are, perhaps, too deep for human pe-netration.-Monthly fournal.

## MATERIA MEDICA AND CHEMISTRY.

Therapeutic Action of Aconitum Napellus.-The following is an abridgment of papers, by M. Tessier, on this suhject in the Gazette Medical de Lyjon, for 15th and 31st January, 1849:-
Aconite has three modes of action, viz.: a narcotic, an antiphlogistic, and a special action on the skin.

1. Narcotic Action.-Some deny that aconile acts in this way; but, nevertheless, the fact is incontestable. It is sufficient to pace some drops of the tincture on the tongue, to be satistied of the narcotic action on the nerrous system; for it excites a very decided feeling of numbuess in that organ. Besides, when a full dose is administered, it is no uncommon thing to observe delusions, vertigo, collapse, and delinium-in fact, such eflects are known to follow opium and poisons from the fanily Solanec. In painful diseases, too, it often gives a wonderful immunity from pain. I have administered Aconite in a great niumher of painful diseases -in dull pains in the bones, in facial neuralyia, in toothache sciatica, cancer, \&c.; and have observed effects which, ftom their diversity, well merit attention. While morphia, with a few very rare exceptions, calms every species of pain, aconite only relieves a certain special class. Thus I have never been able, by means of it, to assuage the pain of exostosis, cancer, myelitis, nephitis agastralgia, or whitlow ; but, on the other hand, I thave ohtained the best result from its use' in such painful affections as have a catarrhal or rheumatismal cause, along with disordered function of the skin, such as theumatism, angina, toothache, \&c. Aconite ist then, in a certain class of cases, a narcotic agent (agenstupifiant, , but this action is subordinate to another, afterwards to be spoken of.
2. Antiphlogistic Action. - The reality of this mode of operation is believed in by Dr. Fieming ; by Dr. Giacomini, who places aconite among the hyposthenic arterial remedies; and by the homeopaths, who attirm that this medicine may be used as a substitnte for bleeding in the most urgent cases. To solve the question, as to the existence of antiphlogistic properties, it will not do (like Dr. Fleming,) to choose cases of rheumatism. bronchitis, pneunonia, erysipelas, or neuralgia, all of which can usually be cured without the abstraction of blood: bint we must take diseases in which bleedings are regarded as indispensable, as inflammation of the brain, apoplexy, peritonitis, hypertrophy of the heart, inflammatory fever, and ophthalmia from the introduction of a foreign body into the eye. In my experiments with aconite on the latter class of cases, I have no! met with a single instance in which the aconite could usefully be preferred to bleeding. I have also given it in active hemorrhages,
in hæmoptysis, and in menorrhagia-and without any atvantage. From my observations, aconitedoes not appear to be more suitable to the plethoric : and upon the whole, I am inclined to think that it answers best with persons of a nervous or lymphatic temperament, and especially with thiose predisposed to rheumatismal and catarthal affections. I do not, however, maintain that aconite never acts as an antiphlogistic: for by and by I am going to mention cases in which it has sensibly reduced the pulse ; but then I will show, at the same time, that the action oa the circulation was indirect, and that it is by regulating another function that aconite diminishes fever.
3. Action on the Scin.-If the principal therapeutic action of aconite $b=$ neither narcotic and calmative, nor antiphogistic, what is it? My reply is, that the special action of aconite is on the skin. If possesses the property of eliminating from the vessels of the skin the hortful matter, and of re-establishing the cataneons functions when deranged by checked transpiration, or ty some vius. It think tha: it has the special power of controiling diseases arising from cold, and others in which a mobid principle is retained is the cutaneous tissues, as occurs in the exanthematous tevers. It is a suitable medicine in all those diseases in which the function of the skin is disordered, as in atticuiar and muscular rheumatism, as well as in rheumatism of the nerves including sciatica and odontalgia; also in affections of the mucous membranes, such as bronchitis, etc.; likewise in the exanthemata.

Diseases in which Aconite is used.-Codrbature.A bruised feeling in the limbs, creeping sensations on the surface, lassitude, headache, and general discomfort, constitute the group of symptoms called by this name: and they are also symptoms which specially indicate the use of aconte. The desired relief will generally follow, by taking daily from five to ten drops of the alcoholic tincture, in a little water, or bland vegetable infusion.

Catarrhal Fever, as Hufeland showed, is caused by the suspension of the active functions of the skin. Its physical characters are : alternations of heat and cold, dragging paius in the limbs, increased frequency in the desire to make water, a tendency to sweat, general fever, complicated with a local affection, which is generally coryza, angina, oi bronchitis. The therapeutic indications are: Ist, To reestablish the functions of the skin $; 2 \mathrm{~d}$, To subdue the irritation of the nose, throat, and bronchial tubes. Aconite fulfils all these intentions. In catarrhal fever, as in courbature, it causes the pain in the limbs, the shiverings, and the heats to subside, and, at the same time, greatly simplifies the progress of the affection of the mucous membrane. But aconite does not, unaided, fulfil the second intention, which requires the assistance of opiates, blisters, or such other means as may be suitable:

Angina'And Acute Broncimtis.-Like MM. Tessier, of Paris, and Gabalda, the author has seen aconite of much 'service in these affections, by diminishing, in the former, the pains of deglutition, and in the latter, rendering the fits of coughing much less distressing.
Rheumatism.-To have a correct appreciation of the action af aconite in rhenmatisrn, it is necessary to discriminate between the different forms of rheumatism, for it is very far from possessing the sama influence over all of them. The cases in which it succeeds best are-recent rheumatic pains, ${ }^{\text {'unaccompanied }}$ by swelling and fever, or in which these symptoms are slight. In them, it possesses very great efficacy, and is preferable to bleeding; also to inoculation with morphia, or the use of belladonna-which drugs are mere palliatives of pain. In acute articular rheumatism, accompanied by decided swelling of the joints and ardent fever, aconite is of less valuc. At the onset, however, of
such attacks, it may be administered with advantage, for the purpose of dininishing the affur of blood [la fluxion] to the joints; but when the syovial membrane and the fibrous and ligamentous structures of the joints become inflamed, aconite is useless, and, in my opinion, the best treatment is hy large doses of nitrate of potash. In chronic apyrexial theumatism, the results are good, though not so stiking as in recent altacks. By persevering in the use of aconite for six weeks or two months, obstinate rheumatic pains, which have existed for years, may be subdued. "Acenite," besides being remedial, possesses preventive properties, by its decided influence over the rheumatic diathesis. When given with this view, it mast be continued for monthis. In all rheumatic affections, but especially those which are chronic, the doses must be much larger than those whict are suitable in the diseases formerly spoken of. It is necessary to begin with ten or twenty drops of the alcoholic tincture, and to increase the quantity up to four, six, or eight grammes.*
Eruptive Fevers.-In these affections, as in catarrhal fever, the pulse is brought down: the cruption is also made to come out better. The beneficial influence of aconite on the progress of the exanthemata has already been mentioned, in a work published at Lyous-La Pharmacopée de Vitet. It dues not appear whether the discovery of this property of the medicine belones to Vitet, or whether it was stated by him at second hand.

Ervsipglas.-M. Tessier agrees with Drs. Fleming and Gabalda in believing that aconite diminishes the duration and the danger of this disease. I would wish to call the attention of surgeons to its value in erysipelas aitacking wounds; so that my observations may be verified. L have. severd times seen a prompt and remarkable amendment follow the daily use of from ten to twenty drops of the tincture, in cases of erysipelas spreading around wounds and ulcers, and accompanied by severe constitutional symptoms.

Pneumonia.- M. Tessier agrees with Dr. Fleming that the aconite, when administered at the cominencement, tends to restore the suppressed transpiration from the skin, and may thus give a mider character to the disease; but if inflammation have actively set in-if auscultation reveal engorgement and condensation-we must not anticipate resolution from the exhibition of aconite.
Mone on Administration.-I am truly astonishe dat Dr. Fleming recommending the largest doses to be used when an antiphlogistic, rather than an anodyne or narcotic, effect is desired. However much I respect' so distinguished an authority, I must state that $m y$ practice is entirely different. In a case of theumatism, neuralgia, or any other affection in which I wish the calmative properties of the medicine', I give from ten to twenty drops of the tincture', and gradually augment the dose to three, four, five, or even to eight grammes in the day; but, on the contrary, when I give it in the courbature or catarrhal fever, I order only from" five to ten drops in the twenty-four hours, and by such doses I bring down the pulse, and diminish all the cther febrije symptoms, without inducing any symptoms of poisoning. I prefer the tincture, as more certain than the extract: The

[^13]tincture, diluted with one or two parts of water, may be applied topically in neuralgia; but used in this way, aconite is an uncertain remedy.-London Jour. Med., June, 1849.

Concealing the Taste of Fish Oil.-Now that the swallowing cod-liver oil bids fair to become the fashionable mania of the day, it may be as well to state the simple and effectual means communicated by M. Fredericq, of disguising its abominable taste. This merely consists in masticating a morsel of dried orange peel just before and just after swallowing the dose.-Rev. Mied.-Chir., tom. v.
[We have employed this means in one case, and with a very satisfactory result. The patient states that the taste of the oil is entirely disguised, by the use of the orange peel.-Ed. A. J. M. S.] (Others advise the addition to the oil of a drop or two of creasote, which imparts to the medicine the taste of herrings, and makes it thus more palatabie. -Ed. B. A. J.)

The adjourned Discussion on Chloroform.-Mr. Greenhalgh, who resumed this discussion, stated the results of thirty-two cases which had fallen under his observation, not one of whom was suffering from disease of the heart, brain, or lungs, or was subject to local congestion of any kind. In three the forceps was applied, out of whom one mother died, five days after delivery, from puerperal fever; all the children were born alive. In one case, turning was had recourse to ; child still born. The remaining twenty-eight cases were natural labours. Eighteen of the children born were females; fourteenlmales. No bæmorrhage occurred in any case; neither was there any delay or difficulty in the expulsion of the placenta. Two suffered severely from intense headaches for some hours after delivery, one having been subject to hysterical pains in the head for some years; the other had rarely suffered in the head before. In no one case did any permanent ill effect result. The largest amount of chloroform given was two ounces and a half, over a space of nine bours. This, also, was the longest period of inhalation; the shortest being seven minutes; average, about two hours. The respective ages-five, twenty-six; five, thirty ; three, "thirty-two; three, thirty-four; two, twenty-two; two, twenty-seven; two, thirty-one; two, thirty-eight; one, twenty ; one, twenty-three; one, twenty-four; one, twen-ty-five; one, twenty-nine; one, thirty-three; one, thirtyfive : and one fifty. Numbers of labours ; thirteen, second; seven, first; three, fourth; three, sixth ; two, thind ; two, eight ; one, seventh; and one ninth. Temperaments ; eight were of the sanguine; seven of the nervous; the remainder of a mixed kind. Three were very stont two were very thin. Five, although desirous of inhaling this remedy, commenced to breathe it in a highly nervous state, which greatIy retarded its action. All the patients had arrived at the full period of utero-gestation. Mr. Greenhalgh, having briefly detailed the particulars of the forceps and turning cases, and given a short account of the effects of this remedy upon the patients during labor, proceeded to draw the following inferences: first, that young children appear to be more susceptible of its influence than those of more mature age; secondly, that females are more readily affected by it than males; thirdly, that the temperaments have butslightly modifying influences, except in the highly hysterical diathesis, in which not unfrequently the most violent excitement is induced, ending in a train of distressing neryous symptoms; fourthly, that drunkards, as a general rule, require a larger dose then those of more sober habits; and fifthly, that lascivious dreams and remarks are of very rare occurrence, the author of these observations having witnessed only two, out of a large number of cases in which chlo-
roform was administered for various purnoses. Mr. Greenhalgh concluded by stating, that although this agent is a very powerful and dangerous one,-occasionally, though rarely, producing very alarming, nay fatal effects,-yet if the cases be well selected, the remedy slowly and cautiously administered, and its effects properly watched, it may be advantageously given either in natural or instrumental labor.
Dr. Henry Bennett had administered chloroform in obstetric cases since its finst intruduction by Professor Simpson, and he was completely and thoroughly in favor of its employment in discriminate cases. He had used it extensively in three classes of cases. First, in those cases in which irritation of the system was kept up by fear or other causes, and the parturient eflorts interfered with. In these cases chloroform relieved the distressing symptoms, allayed unnecessary pain, and quickened the labor. Such a case was that of a young woman he had attended with her first child. She had little energy, seemed overwhelmed with pain, and great mental excitement. The head had advanced into the pelvis, but there was excessive irritability, with cerebral symptoms. The pains were wearing and ineffectual. The bad symptoms all gave way under the use of chloroform, and the pains became natural and expulsive. In all such cases, where bleeding and opiates were formerly resorted to, he had found chloroform a much better sedative. This medicine seemed to act directly on the ganglionic system of nerves; that system on which, as Dr. Simpson, he thought, had proved, was mainly effective in the parturient process. At all events, the experiments of Dr. Simpson went far to prove this; tor he had found the act of parturition go on in a sow whose spinal cord had been entirely destroyed. The second class of cases in which he used chloroform were those in which operative procedure was necessary to effect delivery; not only did it relieve unrecessary pain in these cases, but facilitated the efforts of the accoucheur in delivering his patient. In simple parturition, in which the labor was natural, he did not give chloroform, exept at the request of the patient. In no case had he seen any ill effects fairly attributable to the chloroform ; it was true, in one inslance a lady died in childbed three weeks after delivery under the influence of chloroform; but here the fatal resuit was dependent on a very severe organic disease of the heart not discovered during life. He mentioned the case, however, in common farness in discussion. In one case, also, some slight hremorrhage had occurred: it was easily arrested, and was not due to the medicine. The third class of cases in which he employed chloroform were those of inflammatory disease of the nterine neck, in which it was necessary to apply caustic or to operate ; it relieved pain, fear, and neuralgia, and was most valuable, as it was also in cases after operation had been performed, in relieving pain. He had never seen it lead to scenes of an indelicate character, or give rise to indecent talk in the woman; on the contrary, he had seen it have a temporary good effect in cases of ymphomania. On the whole, be strongly recommended the use of chloroform ; he had three times limself inhaled it for surgical operations. The risk attending its use under proper management was no more than the chance of being thrown out of a railway carriage or steam-boat.

Mr. W. F. Barlow said that the subject might be treated of ander two heads-first, was it desirable to relieve the pain of labor? secondly, was it safe ? As to the first poin:, he did not imagine that any one would demur for a moment. He did not expect to hear any one say, that as an abstract matter it was undesirable io relieve pain of any kinc. Every one who had seen a number of surgical operations must have had frequent occasions for remarking the peculiar firmness with which many women hore them, even when they were most protracted and severe, and he had heard experienced operators remark, that women endured the pain of a
knife, to speak generally, more uncomplainingly than inen. However that might be, it was clear enough that there were many women who would not flinch from surgical proceedings, that would express most bitterly the sufferings of parturition, which, though happening in the natural course of things, were oftentimes all but intolerable, and were often made infinitely worse by being spread over so tedious a space. He thought that sone persons were too much in the habit of making light of pain, and underrating its complex effects upon the body. Let them turn to Mr. Travers's beautiful work on "C Constitutional Irritation," and there read of deaths which seemed to be owing to the shock of pain. Pain had remote effects as well as immediate, and the former were apt to be forgotten. It was very well for those who had no pain to suffer, to talk philosophically of the agonies of others ; the remark was quite applicable to the pains of parturition. As to the second and more difficult question-can chloroforin be safely administered in la-bor?-it was one which facts only could determine. He thought that Dr. Murphy was right in rejecting rumors and vague assertions as quite inadmissible in an argumentative discussion. If statements were to be made of deaths from chloroform, and used as arguments against its administration, it was but fair to demand that they should be explicit, and properly supported. If instances of a fatal result were mentioned, something should be said, surely, of the condition of the patient, of the mode in which the chloroform was administered, of the time it was inhaled, and of the state of the respiration and circulation at that period when efforts were first made to avert dissolution.

Mr. Gream spoke at considerable length against the employment of chloroform. He had tried both ether and chloroform himself to some extent when they were first introduced. He was satisfied of their injurious effects. He considered Dr. Murpiny had advanced no new facts in his paper, which did not call for special notice. He drew a parallel between the practice of the late Dr. Clarke and. Dr. Simpson as to operative midwifery and its results, the balance being in favor of the old plan, without anæsthesia. He quoted the opinions of Collins, Meigs, Montgomery, and others, against the agent, and said that no accoucheur of extensive practice in London used chloroform.
Dr. Webster said, as he did not practise either surgery or midwifery, he had no personal experience respecting the use of chloroform under such circumstances; still, he had paid considerable attention to the subject, and considering it was only by the accumulation of facts relative to the employment of so powerful an agent that we could arrive at any correct knowledge, he would now state some cases which were instructive. Dr. Murphy had said he never saw bad results supervene during the use of chloroform in midwifery. This was important; but he wished to learn if this opinion applied as well to the immediate as to the remote effects produced by the remedy : and especially whether any permanent or transitory impression had ever been produced upon the mental functions of individuals? On this point he (Dr. Wetsiter) could speak with some confidence, and would therefore refer to three cases which had come within his cognizance, showing the serious consequences sometimes following the inhalation of chloroform during child-birth. In the first case, the patient, who had been delivered under the influence of chloroform, was, for three days subsequently, constantly incoherent and rambling. She soon afterwards became perfeclly maniacal, and so furious as to require confinement in a lunatic asylum, where she remained for twelve months, when she was discharged cured. In the second case, the patient never recovered from the effects of the chloroform exhibited during her confinernent, and soon afterwards became quite maniacal, and continued so for many months, but recovered ulti-
mately. The third case to which he would now allude, by some psychological physicians, might, perhaps, not he considered as a true instance of insanity; however, to remove doubts, he would relate the chief symptoms. The cerebral disturbance following the use of chloroform during delivery never ceased entirely; the patient could not sleep at night for a long time, and often said she felt as if in the presence of a madman who was going to murder her. Three weeks afterwards, she became almost maniacal, exhibited much mental excitement, laughing frequently ; had a strong desire to sing, with other extraordinary feelings; conducted herself like an infant, and lost her memory, in which state she continued during five months, when recovery took place.

Dr. Murphy briefly replied. He was anxious for truth, and was glad to hear of any well-authenticated facts on either side nf the question. The names quoted by Mr. Gream were those of practitioners who had not tried chloroform ; and therefore their opinions were of little weight. Dr. Wehste1's cases were not so valuable as they might be, as evidence of the asserted dangers of chloroform, if puerperal mania did not occur sometimes without the use of that agent. Doubtless there were soine peculiar constitutions, in which chloroform, as was the case with opium, calomel, \&c. could not be given without ill effect. To determine what were these constitutions in what way to administer the chloroform, and to determine its real value, was, and should be, the object of his inquiries respecting it.-London Medical Gazette.

Development of Electricity by the Contraction of Muscles. -The experiment of M. Du Bois Reymond, on the development of electricity by the voluntary contraction of the muscles, has been discussed on the Continent. MM. Despretz, Becquerel, and Matteucci have not been successful in producing the effects which were stated to have been obtained hy M. Reymond, and attested by M. de Humboldt. 'M. de Humboldt has addressed a second letter to M. Araro, stating that, at a new séance in the cabinet of M. Emile Du Bois Reymond, the effects produced by M. Mitscherlich were most unequivocal, and fully established the truth of this new fact. "Occupied myselt," concludes Humboldt, "for more than half a century in this class of physiological researches, the discovery which I have announced has for me a vital interest. it is a phenomenon of life rendered sensible by a plysical instrument."-Mcd. Times, August25, 1849.

## PHYSIOLOGY.

On the Muscular Contractions which occasionally happen after Death from Cholera.-Mr. Barlow has noticed two striking cases in which the movements occurred after dissolution, and lasted for a very considerable time. The muscles of the arms, chest, and legs, and, in one of these examples, those of the face, were observed to be affected, some muscles being much more influenced than others. Some of the movements in respect of form were not unlike those of volition. In one of these cases the motions ensued two minutes after death; in the other, a quarter of an hour. In both the muscles of the lower extremities wete first affected, and the movements appeared successively in these of other parts. Two cases, very well marked, accurately observed, and presenting very similar features to the foregoing, and which bad occurred long ago in India, were referred to. The author described thase more local and transient forms of the affection which were more commonly observed; the movements might be confined to the legs, the chest, the face; to a single muscle, or even to certain fibres of it. A case of cholera was on record in which paralytic muscles had been
affected by spasms. These post-mortem contractions had been stated, by an observer, to admit of excitement and aggravation by "spricking." The writer had endeavoured, in one instance well-calculated for expeiment, to repeat the observation, but had been unsuccessful. He had used, also, water of the heat of $150^{\circ}$, and of a yet higher temperature; in order to discover if the motions could be either induced or affected by it; no definite result could be obtained: ' Probably these motions, which had as remarkably narnow a sphere of ration in some cases as they had a wide one in others, would have been much more frequently met with had they been oftener sought for. Attention was directed to the terror which they had caused to ignorant persons and persons not ignorant ; they had given rise to unfounded notions of persons being buried whilst yet alive. They had been seen by friends, to their extreme amazement, as they were watching the bodies of the deceased relatives; and it was necessary, with the view of preventing groundless alarm and false conclusions, that all persons who might come in contact with the corpses of those who had perished from cholera should be informed that at was by no means extraordinary for such actions to be witnessed after death in this disease. The author had no explanation to offer of the cause or causes of these curious phenomena. For the plesent, they must be viewed as facts. Groundless speculations would only surround them with unnecessary mystery. He concluded by proposing a careful inquiry into all the circunstances under which they occurred; and some points were specified which it would be interesting to consider. Amongst other things, it was important to note their duration and the most protacted interval which might elapse between dissolution and their commencement.
[This automatic movement of defunct cholera patients was one of the remarkable features of the disease, first noticed by us in 1832. The first instance which occurred in the walds of the Redcross Street Hospital, in the borough, excited no little commotion, the bed-clothes being completely removed by the movement of one arm. The phenomenon subsequently became so common, as to cease to excite attention. We noticed at the same period the return of the natural temperature of the living body, as an universal fact, and in some few instances the cessation of life was so imperceptible, that we could only assure ourselves that the patient was dead by feeling the return of warmth to the previously ice-cold surface.-ED. Prov. Med. \& Sur. Journal.]

## MISCELLANEOUS:

Leller from California:-Sickness at San Francisco and Sacramento City-Diseases, their Causes and TreatmentThe Medical Profession-Sacrämento City-Meteorological Observations-Present Condition and Future Prospects of Califormia; : \&c.
-...To the Editor of the Boston Medical and Surgical Jour-nal.-Sir,-Your Journal, like an old and valued friend, has always been a ,welcome visitor; but since I have left New England it has been doubly welcome. Its reception has, perhaps, been warmer and more ardent than heretofore, and its arrival most eagerly anticipated. I take this opportunity to express my thanks to the publisher for the promptitude and punctuality that he has always manifested in the management of his department, an expression not due to all the publishers of medical periodicals in the Uniecd States, as many subscribers besides myself well know.

I think that a few general remarks' upon the points leading this article might be somewhat interesting to your readers, though some of the topics thus embraced are not purely medical. Yet they are of such nature ihat they could not with propriety be omitted, and are therefore interwoven
with professional subjects, and respectfully submitted to your disposal.

There has been a vast amount of sickness in San Franciscoduring the past summer. In the months of August and September, particularly, there were from five to ten interments a-day; and though the health of the place is improving, there are daily many cases of fatal disease. A few days since I visited one of the grave-yards-there were six open graves! The prevailing complaints are dysentry and diarrhea. Some have died of pulmonary disorders, particularly phthisis ; others of fevers contracted in the interior or at Panama, and especially in the valley of the Sacramento.: At the mines these disorders have been rife. Scurvy has carried of many miners, and several ships have brought into this port persons aflicted with this latter malady, some of whom have died. A gentleman informs me that there are five scilors now on board the U. S. Sloop of War Warren, who are ill with this complaint. Intemperance, dissipation, dis. appointment, privations, exposure, \&cc., have had more to do with this fatality, as a general thing, than the discasés themselves; for I believe it is the opinion of every one that the affections of this climate are all very manageable, with the exception of puimonary and bronchial complaints, if the patients are seasonably and well ctared for. I alloded to this subject in a former letter, when speaking of this country, its slimate and diseases.*. Let a man who has indulged in dissipation and imprudencies be takien ill, and for the first few days not have medical aid, sleeping in a tent upon the ground, or, as it often happens, be obliged to lay out of doors without any one to care for him, and it is not in the least degree mysterious or strange that the patient dies ; Fonly wonder that so many of the sick, thus subjected to change of life, of mannet, of living, and of climate, many of whom are men of dissolute habits, do accover under these circumstances. This is the fate, the lamentable fate, the mournful story, of many a young man who left friends and home only a few months ago in pertect health, with high hopes and bright prospects of the future, to seek fortunes among the golden sands of California. During a long sea voyage, or during their sojoun here, miagling with the multitude, their morals having become corrupted, their substance wasted, and their health seriously impaired, they are seized with disease, fall victims to its power, and their mouldering ashes sleep-not alone, for in the midst of these shades are already slumbering many bodies, the relics of golden ambition. Individuals of all nations, kindred and tongues, compose the silent gioups; no stone marks the name of the departed, or designates the final resting-place of him whose carthly pilgrimage terminates here.
I have known five coroner's inquests held in one day-By far the greater number of burials are paid for from the public treasury: Few deaths have occurred among those who Inve in hoises, who have ordinary comforts and are well provided for. Women and children enjoy much better health than men; there has onlv been a very limited number of deaths among them-a fact worthy of notice, which 1 account for by the fact that the latter are generally more temperate, more cleanly in their personal habits, and less exposed than men.
have recently taken a tour into the interior and spent some time at Sacramento City. The city is situated on the Sacramento river, about 175 miles from San Francisco. At present it contains something like 10,000 inhabitants, andiis rapidly increasing in wealth and importance. The site $00^{\circ}$ cupies the high banks of the east side of the river, near ils junction with the North Fork, which tributary is lost in the Sacramento on the northern border of the city. The sursounding country for some miles is a leve! plain, overgrown

[^14]with large trees, the oak and sycamore being the principa! ones. There is also wild grass and various shrubbery interspersed among the groves, which have some resemblance to old parks scaltered here and there over the face of the country. The town is regularly laid out, and the streets arranged in alphabetical order from noth to south, as A street, B street, C street, \&c. ; and from east to west numerically, as First street, Second street, Third street, \&c. The trees that were standing on a line of the streets are preserved; some of them are of immense size, forming elegant and lovely shades and ornaments. Buildings are continually going up and being improved, so that it possesses the appearance of an old and neglected country village undergoing repairs, more than it does a city in embryo. Being located between the banks of two rivers, one of which overflows in the course of some seasons, inundating the region for severel miles in extent, and having in its immediate vicinity a lake, which, like the rivers, becomes extremely low in the summer, the exhalations from these sources help to form the miasmatic and noxious materials which germinate disease in the city. These causes, together with the high temperature of the climate, are operating more or less at all seasons; but August and September are the most unhealthy monhs. At this time the waters of the rivers and lakes are drying up, and the weather is extremely hot, the thermometer ranging from $80^{\circ}$ to $120^{\circ}$ a-day. The barometer varies from $29^{\circ}$ 8 to $29^{\circ} 10$ or thereabouts. In the latter part of September of the present year, the nights were cool and the days hot. I observed the mercury to be sometimes as low as $45^{\circ}$ at 6 , A. M.; and the same day at 2, P. M., it would stand at 104! Such great changes in temperature, without the influence or concurrence of other causes, must and do exert pery deleterious effects upon the inhahitanis. Remittent, intermittents, aud congestive fevers are common diseases, and are generally associated with dysentry or diarrhœa. The same disastrous results have obtained there, as 1 have spoken of as sources of disease at San Francisco, and for the same reasons many cases have proved fatal. I have referred to want of means, care, \&c., and to the dissolute and improvident habits and management of the patients themselves. I think that two thirds of the persons who travel on this river at the season I speak of as bring the most unhealthy, become sick. While I was making a short stay at Sacramento city, I had occasion to treat eight cases of fever, two of dysentry, and several of diarrhea, besides seeing many others in the hospitals and private practice of other physicians. Patients who had good nursing. comfortable apartments and early treatment, generally speedily recovered.
The Remittent fever is generally ushered in with a chill, violent pain in the head, limbs and loins; hut the chill, usually, is only slight, amounting to the sensation of feeling cold, as the patient expresses it, and these rigors are not apt to recur after the first few hours from the attack, though this sometimes is the case. Afterwards there is great heat and febrile excitement at particular periods, for the first few days. The exacerbations becomes less violent and less distinct as the disease runs on towards its termination. During the remissions these symptoms are, for the most part wanting, and there is dull headache, $n \mathrm{o}$ thirst, and an inclination to sleep. The patient commonly berins to improve by the third or fourth day from the period of the first welldefined exacerbation. In nearly all these is consiḍerable debility succeeding the disease, and it is some time before the patient fully recovers his ordinary strength.
The congestive form of this fever is very rare in persons of temperate habits; it may hecome so, however, in many instances, for want of timely treatment, or rendered so by mal-practice, particularly in plethoric subjects.
I have seen but one case where bloodletting was indicated.

Cathartics are not often called for, and the same may be said of emetics and all other depletive remedies, sucia as purgative doses of calomel, antimony, \&c. Heat should be applied to the extremities (mustard plasters), and coul applications should be directed to the head when there is strong febrile action. Some sudorific should be administered, such as copious draughts of some simple dirit, as barley or crust water, with a few drops of the wine of ipecac., and paregoric added to it. This plan will much relieve the patient, and prevent symptoms of congestion. When diaphoresis is well established, unless there is some contra-indication, an alterative and sedative may be combined. The following pill answers very well:-R. Sulp. morph., gr. j. ; pil. hydr., grs. vijj. ; pulv. ipecac., grs. xvj.; ex. coni., q. s. M. Ft. pil. no. viij. Give one pill every four houns. Or Dover's powder, nit. potass, camphor, properly combined; are valuable remedies; minute doses of calomel may be anded if required. When there is diariliea and pain in the bowels, apium should always he given to "the point of relief.". If the bowels are constipated, which is a rare condition, or if there is reason to apprehend that there is foul or crude matter lodged in the prima viæ, a laxative dose of castor oil, guarded with an opiate, should be administered. As soon as the febrile symptoms and headache have subsided, quinine should be given in two grain doses, three or four times a-day, until the patient regains his usual strength. As soon as it will be prudent, he should be allowed a generous diet, with wine and water or porter. He should take only moderate exercise, and avoid exposure to the morning or evening air, or to the influence of the bot sun. This method of treatment, the outlines of which àre here essentially given, has been very successful with me, and I have treated a sufficient number of cases to predicate the doctrine that the disease does not require what is sometimes styled "Herculean treatment" to bring it to a successful termination.
I have seen and prescribed for many cases of intermitting fever, or fever and ague, the complaint having been contracted in the valleys of the Sacramento and San Joaquin, as well as some from the Isthmus. I have observed nothing remarkable or peculiar in these cases. I have not found those enormous and excessive doses of calomel and quinine necessary or required, which some writers and practitioners so strenuously recommend. I have never given more than two or three grains of quinine at a dose, and have employed calonel but seldom, and then very sparingly. I am satisfied that two grains of quinine is sufficient for a dose, and think that perhaps even smaller quantities would answer the desired end, with other judicious measures conjoined." If intermitting fever is the same all over the world, 1 do not hesitate to declare that those who have had the complaint have suffered (in the aggregate) as much fro:n mal-treatment and over-dosing, as from the fever itself.

The diseases of this climate are attended with great debility. There is generally a tendency to a typhoid condition. There is also, in a majority of the cases, an iritable and lax state of the mucous membrane of the stomach and bowels, often attended with a sub-acute grade of inflammation.Hence bloodletting, calomel, antimony, emetics, cathartics, $\& c$. , cannot be borne,'and the bestinformed physicians in this country use them but sparingly. "Some of these remedies are never prescribed-"pro optimo est minime malus," so that we are only to make use of such agents as promise good and do not endanger the life of the patient, as is the case with all depleting medicines. One great object is to sustain and nurse the strength of the sick person.

The dysentery and diarrhea of this country resemble those affections as they appear in hot climates, or, at least, as they are described by writers. I have found it always important to have the patient warmly clothed, to keep up constant mild diaphoresis, and to have him abstain from drinks or
solids of any kind as much as possible. When there is a deficiency of bile and torpor of the liver, some mild mercurial, combined with opium, will be found of service. But it generally happens that the stools are copious, black or darkbrown, greenish, \&cc., evidently showing that there is a superabundance of bile, constituting what is styled "d bilious diarrhaca." I believe that mercury is burtful in this variety of the complaint, being calculated to increase the morbid action, irritate and loosen the bowels, and debilitate the patient. Opium, as is well known, lessens all the secretions, except that of the skin. Its effect upon the liver is very striking; if properly administered for a short time, it seems to dry up this freshet of bile, after which a few days of rest and strict regimen will restore the patient to health. Chronic drar$r$ heca is managed upon the same principles, but is a more obstinate form of the complaint.

Those who arrive from sea, as well as those who have remained a great length of time in the mines, frequently come here with scurvy; many have fallen victims to this complaint. Dietetic treatment of the right kind is more availing than any other. A vegetable diet is all important; polatoos and onions are more serviceable, in scurvy, than drugs.

Many physicians have emigrated to this country; but as there has been a great amount of sickness, there has been something for them to do. It is fortunate for all that there has been a full complement of medical men here-their services have heen needed, and in no case have they been withheld. Medical fees are high, and are generally paid either by the patient, his friends, or by the Common Council. I feel great pleasure in saying that physicians are doing as well here as they are in any part of the United States. The profession, like all others, is well represented. "Men of cultivated minds and indomitable energy have directed their steps hither, till alnost our entire population is composed of individuals excelling in the various avocations they have been bred to." Medical fees can now be collected here by law, or the dejtor can be imprisoned or whipped.

We had a powerful rain on the 10th and 11th insts.Since then, we have had fine weather. The harsh, cold, gusty winds which have hitherto prevailed, have been superseded by the mild, warm land breeze; the dust and dirt is now moistened and trodden down, so that it is delightful riding or walking, or doing any kind of business. It is pleasant to have an excursion in a sail boat, in the bay of San Francisco, at this season. The mercuay varies from 58 to 70 deg . in twenty-four hours. On the 16 th and 17 th of this month, it was from ' 62 to 82 deg. in the shade, as observed by myself and others. Since this " meteorological innovation," as a rain storm at this season is termed. the sickness has abated, and it would not be improper to say that San Francisco is now a healthy place. The rainy season proper, commences about the first of December.
No less change has there been in the growth and advancement of this cily. Large and commodious buildings have taken the place of shanties; fine inansions and cottages are now where tents and cabins were four months ago; hospitals, churches and theatres are now in progress. Three hundred vessels are at present in the harbor; trade is carried on with the South American ports, the islands of the Pacific, Asia, and all parts of the world. The commercial interests of San Francisco are not small, and are rapidly inereasing.
As to the mines and the interior of California, I have nothing to say different from what 1 stated in my former letter.* The political prospects of the country are brightening, law is respected and executed, life and property are as secure here as any where, and I have no doubt that the people will adopt the Constitution already framed by their delegates at Monterey, and that in a fetw months California will become a State, having a good and wholesome govern-

[^15]ment. What she lacks in agricultural capabilities, she makes up in mineral wealth; her ungenial climates will be counterbalanced by "power of gold," so that she must inevitably rise to a high and noted position; and have dignity and station among her sister States. Very truly,
J. P. Leonard.

San Francisco, Oct. 24, 1849.

## THE <br> 

MONTREAL, JANUARY 1, 18.50.
treatment of medical witnesses at coro. NERS' INQUESTS IN CANADA wEST.
We have already had occasion to notice the unfair and illiberal manner, in which the members of our profession are treated, by the coroners in the sister Province. This, however, is less their fault than that of the law under which they act, and of which, under these circumstances, they may be considered as repre. sentatives. The question is now brought to a crisis, and it will remain a matter of consideration for the united wisdom of the Province, in Parliament assem. bled, whether a law so faulty in construction, and so unprincipled in nature, as that which regulates the practice of Coroners' Courts in Upper Canada, shall not be superseded by one, hetter adapted to fulfill the ends of justice, by securing efficient medical testimony, and remunerating such witnesses in accordance with their value. The thanks of the Profession of the Province are certainly due to Drs. Ferris, Mack, and Goodman, for the stand which they have taken; and we hope that the example which they have set, will be followed up on other occasions, elsewhere. It is far from our wish to embarrass or impede the ends of justice; but on the contrary would we most cheerfully promote them by all means in our power, consistently with that duty which we owe to ourselves, our families and our country. Our duty to the last requires no unreasonable services at our hands, although, most unfortunately, they have been, and are, gricvously undervalued; and that, in this country, to such an extent, that professional services are continually demanded, while the Government offers nothing in exchange, but a paltry honor, which they consider amply adequate as a recompense for time spent, of which the public at largereceives the benefit, while the donor may starve. A measure to ameliorate this state of things; was introduced into the Legislature, two sessions ago, but dropped through. We now think that the position assumed by "four of the oldest - practitioners of St. Catherines," (who is the fourth?) will be that of medical men else-
where; we trust it may be so, for certain are we, that no other means can be adopted, with anything like equal success, to wring from the Legislature that simple measure of justice, which our profession ask at their hands.

Cozoner's Inquest.-A statement of Medical gentlemen of St. Catherines, when called at an Inqurst held by Dr. Raymond, on the 5th of December, on the body of Abraham Iamptin.
William Ferris, M.D., says that he knows nothing of the death of Abraham Hampton.- (The coroner and jury requested witness to undertake a post mortem examination.) The witness refuses because payment is not provided by law. Says he has never made out a bill against the district fur such examinations since the change in the law, although be has acted as a surgeon o: such occasions, because others have done so, and payment refused by the District. The members of the medical profession genc-: rally in the district. refuse to attend examirations of this tind, and there is an understanding to that effect amongst the practitioners in town and believes in this district.
Theophilus Mack, Surgeon. He knows nothing of the death of Hampton. Will not attend a post mortem examination without provision being made for payment of services. He went to great expense in the Stinson affair, and led his professional friends into serious inconvenience at the time, without any remuneration; and he has been refused in in other cascs.
Dr. Goodman, says he attended deceased some three months ago, in consequence of two of the filse ribs being braken. The heart might very probably be affected by the pressure of the rils on is, and the concussion. Ribs on the right side broken by a fall. Is willing to undertake a post mortem examination if he knows where to be paid for it. There is in understanding amongst the medical practitioners in town, that they will not attend post mortem exanination, without remuncrations for ther services.
Alexander MicDougal, says he is a Surgeon, knows nothing of the death of the deceassd, but will examine the body by post mortem examination!!!
Dr. Carson. He knows nothing of the cause of the death of the deceased, nor of the deccased himself. He bas no objection to attend a post mortem exammation if any other professional man will assist him. Is no party to any understanding amongst medical men, that they will not attend. Is willing to assist In. MeDougal.

Dr. A. McDougal's examination resumed, says he has performed a post mortem examination on the deceased. Found the brain silighty congested. Found left veitricle and auricle of the hart Fighly inflamed, and is of opinion that this was the cause of his death, he had examined the stomach and found it healthy, and there was no evidence of violence or traces of poison, and consi. dered that the death of the deceased was produced by natural causes.
Jury's Report. - The Jury empanelled on the eighth of Decembcr, 1849, for an Inquest at St. Catharines, find it their duty to make the following report:-

The Jury beg to represent, that they regret that notwithstanding repeated and carnest applications made to the District anthorities, no means have been provided for remuerating medical zentemen for attending in:queste, and performing post mortem exeminations when necessary.
Medical gentlemen in this district having been put to considerable loss, by tha refusal of payment, have gencrally determined under these circumstances. not to give their assistance, and four of the oldest practitioners in town have positively refnsed theirs, on the principle of supporting the professign. Irad it not been for Doctors McDougal and Carson complying with the request of the jury, and performing the uperation on this occasion, the jury would have been unable to tind a verdict. If this systen be per. mitted to continue, it will be next to impossible to detect any murder, when no mark of violence is left on the person, and poisonings and all the most treacherous murderers may cscape with perfect impunity. E.S. Adams, foreman, Lachlan Bell, R. A. Clarkc, Daniel Sweeney, Bernard Foley, Chauncey Yalc, Tho:
mas McIntyre, J. F. Mittleberger, Rolland McDonald, Henry Brownec, Francis Hall, Thomas Shaw.
Jury Room, Decenter 3. 1849.
-St. Catherines "Jurnal," Dec. 13. 1819.

## The Boston Tragedy.-The medical world, as well

 as the public generally, have been startled with the astounding intelligence from Boston, of the murder of Dr. Parkman, and the subsequent arrest of Dr. Web. ster, Prof. of Chemistry of Harvard University, as the supposed perpetrator. The murder was committed after one o'clock on the 23 d of November last, and supposed to have been effected in the Medical College at Boston, and in Dr. Webster's laboratory ; the missing body having been found in a vault below the apartments occupied by the Professor. Portions of the body would appear to have been hewn to pieces, and afterwards burnt in the furnace in the library. The cornner's jury has since sat, and although they have brought in a verdict inculpatiug Prof. Webster, yet, having carefully perused all the documents as yet published, we are convinced that however strong most of the circumstances appear against the Prof., there is a still stronger array of what may be deemed negative evidence in his favor. We cannot conceive, as one of such evidences, c. g. why the porter of the college should have taken the trouble of breaking through two brick walls to get into the vault, and discover the body, when Prof. Wehster's keys were at the disposal of the police, and when he had previously opened his apartments for free examination ; nor can we imagine how a person could be murdered in an apartment, (there being reason to suppose he had been stabbed,) and after wards cut up for the purpose of being burned, without the effusion of a considerable quantity of blond, none of which appears th have been detected on the floors or tables. These, among many others, strike our mind with irresistible force, and permit the convietion that Dr. Webster is not the guilty person. The evidence submitted to the coroner's jury, and which appears to have been very voluminous, will not be published until after the trial. In the meanwhile, Dr. Webster remains in prison, his lectures being carried on by a medical gentleman, we believe from Geneva. The interests of the School will not therefore suffer.
## Quacks and the "Sherbrooke Gazette."--This

 paper has been making a dolorous whine, and, taking the quacks of the Eastern Townships under its protection, has been abusing the College of Physicians and Surgeons in a most lusty manner for prosecuting them for breaches of the law. We have no sympathyfor the quacks nor for their advocate; some of these parties have been practising, unpunished, for years', but that fact is no argument why they should be permitted to continue to do so longer. A continued violation of the law is no reason for exemption from punishment for the offence, because such punishment comes late. We would like the advocate of the quacks to sustain the position, that the fifty-firsi murder should not meet its merited reward because the fifty preceding passed unnoticed, or were endured. No, the quacks indicted for violation of the law, are well known to have practised, even on the Sherbrooke Gazette's shewing, for years in defiance of the law; and if they are overtaken at last, they are but receiving that reward which they were liable to receive at any antecedent period, and which, although arriving late; is therefore the more merited. The licensed physician shall be protected; and it is an anomalous circumstance to witness a licensed practitioner, under the name of "Scalpel," (one too, well known to us,) in the same paper to which we have alluded, advocating their claims to sympathy in opposition to the law, and to that profession of which he exhibits himself a most unworthy member. Like the assassin, who prefers the darkness for his deeds, be writes under an anonymous signature, ashamed to announce himself in his rue colors, a proceeding worthy, and worthy only, of such a cause.

Quackery in St. Catha'rines, C.W.-A Cand-Dr. Barry, Magistrate, takes this opportunity of informing the citizens of St. Catharines and its vicinity, of his arrival among them, where he intends practising his profession as Physician, Surgeon, \&c., and expects from his long residence in the province (seventeen years) a share of public patronage. The Dispensary is now open for the benefit of the sick poor; hours of attendance from 8 to $10 \mathrm{a} . \mathrm{m}$. daily; outdoor attendance on the poor, gratis, from 1 to 3 p.m. The Doctor can be consulted at his Surgery; where the Dispensary is, at Mrs. Dales, William-street, from 10 to 12 in the morning, and all the afterinoon. The Clergymen and other inhabitants are requested to send those who are really distressed and in want of medical aid, to the Dispensary, stating so in writing, and directed-Edward Barry, Physician to the St. Catharines General Dispensury! !!!

St. Catharines, Dec. 11, 1849.
What possible connection there can be, between a man's professional capabilities and his magisterial fme. tions we cannot perceive. Is he the better " physician and surgeon," because he is a "magistrate ;" or a better "magistrate," because he is a "physician and surgeon." Doctor Barry evidently wants titles; in
his next adventisement, we would recommend him to sign himself Surgeon-in-Chief to the King of the Cannibal islands. This would be equally as good, as the proceeding of the oculist, who, to establish himself in practice in this city, a'few years ago, announced him. self as having been surgeon to an ophthalmic institution which existed only in his own imagination, whereby he did contrive to open considerably, the eyes of Her Majesty's leiges in this city. Why will not practitioners practice their profession in an honourable manner?

School of Medicine and Surgery. Montreal.-This institution goes on well, and has a good attendance of students. We understand that Dr. Trestler, lately appointed lecturer on Midwifery and Diseases of Women and Chidren has resigned, and that Dr. D'Orsonnens, of this city, is worthily fulfilling his place. The selection is a judicious one.

College of Physicians and Surgeons, C.E.-We beg to call the attention of the Profession of Lower Canada, to the proposed amendments to the By-Laws of the College, published in accordance with the provisions of the College in this behalf, in our advertising columns. We request earnestly their consideration of the same.

## CORRESPONDENCE. <br> THE LAW AS REGARDS QUACKERY IN UPPER CANADA, AND THE NECESSITY OF REFORM.

 To the Editor of the British Ainerican Journal.Dear Sir,-Could you call the attention of uur brethren in Toronto, to the fact of your success, from perseverance, in applying to the Leginlature fer a charter to give your College of Phy. sicians and Surgeons the power to prosecute all quacks; and the happy result encourages me to hope, that you will give a space in your valuable Journal to a proposition to enable us, of Upper Cunada, (now we have the Parliament here,) to obtain the same privileges you have securcd. According to the act we have in force-unless you can prove that the party, practising as a quack, has done sn for remuneration-the fine is not imposed, and that is the way they get rid of it; although no phace is so much pestered with quacks, both male and femaic, as we are-such is the law. A most barefaced case lately occurred in the Township of Chinguacousey, near Toronto, in the case of Stoddart, tried at the late Sessions. The witnesses swore that they never knew him to practice for pay; that they never gave him any for medical attendance; but that the money they gave him was not for doctoring but as a present, in the same manner as they vould make a present to any other kind neighbor, and so the case was dismissed. Would any one beiicve these were the identical men who ulways were complaining of the quacks. But it is not the first, by a great many cases on record, of similar resulte; and, more, this individual, it is said, is supported by a momber of the profession, as he always calls the said member in when he
is at fault. This is disgracciul, if truo. Excuse this hasty note, and believe me,

## Your obliged servant

Hornby, C. W.
[We propose to taiks up the consideration of medical matters in Canada West in an early number.-ED.]

## MEDICAI, ADVERTISING.

## To the Editor of the British American Journa'.

Sir,-Permit me to draw the attention of the Medical Faculty to the following advertisement in a late Bytown paper:-

$$
\begin{aligned}
& \text { " copaiba capsules and cubebs, } \\
& \text { Suspended by Doctor }
\end{aligned}
$$

Compound Resinous Extract of Copaiba and Cubebs, which contains all the virtues of these articles divested of their disagreeable tavte and smell."

Your readers will be surprised to learn that this singular advertisement proceeds from a Surgeon of considerable eminence, well known as a contributor to the pages of the various Medical Journals. Had it not emanated from an individual whose example must exert some influence on the junior members of ti:c Medical Profession, I would have passed it without notice, but it is the duty of every regular physician to express the general feeling of of the profession in justly condemning such advertisements, They are, to say the least of them, entirely unprofessional and savour too much of quackery. The use of quack medicines should be
discouraged by the Faculty as disgraceful to the profession, injurious to health, and often destructive even of life. No person should be recognized as a regular Physician who publicly advertises any nostrum.

I am,
Yours faithfully, "Iatros."
Canada West, November, 1849.

## NOTICE TO CORRESPONDENTS.

Dr. J. (Hornby.) The objections to the employment of Intra Vaginal Respiration, recommended by Dr. M. Culloch, are more ideal than real. Dr. Simpson's Air Tractor appears to have been quietly laid on the shelf, we cannot, and do not, consider it an equivalent for the forceps in judicious hands. The other matters alladed to, will receive attention. The case of Chronic Hepatitis presents nothing unusual, and is scarcely worth while inserting.

Dr. Jarron, (Drummondville.) Communication received.
Dr. Evans, (Richmond.) Communication received.
Medicus. The furmula for Liston's Red Wash, is as follows :
R Zinci Sulphat $3 i$.
Spirit Lavend. Comp. 3 ss . Spiit Rosmarin 3ij.
Aque Fontan. libi. m. Fiat Lotio.
It is applied by means of lint, and covered with oil silk to prevent evaporation.

## BOOKS RECEIVED.

Report of the Board of Health for the city of New. Yoit. 1849

|  | Tuermoneter. |  |  |  | Barometer. |  |  |  | Winds. |  |  | Weather. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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| 13, | " 41 | " 46 | " 44 | " 43.5 | 29.70 | 29.71 | 29.72 | 29.72 | W by N | W by N | W | Fair | Fai | Clou |
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| 18, | ${ }^{\prime} 33$ | $\because 45$ | $\because 36$ | "39.- | 29.78 | 29.72 | $\begin{aligned} & 29.82 \\ & 29.70 \end{aligned}$ | $\begin{aligned} & 29.89 \\ & 29.73 \end{aligned}$ | w ${ }_{\text {N }}^{\mathbf{N}}$ | W ${ }^{\text {W }}$ W |  | Fair | Fair | Fair |
| 19 | " 34 | $\because 46$ | " 40 | " $40 .-$ | 29.72 | 29.71 | $\begin{aligned} & 29.70 \\ & 29.68 \end{aligned}$ | $\begin{aligned} & 29.73 \\ & 29.70 \end{aligned}$ | W ${ }_{\mathbf{N}}^{\mathbf{N}} \mathbf{W}$ | $\mathbf{W}{ }_{\sim}^{N} \mathbf{N}$ | $\mathrm{N}_{\mathrm{N}}$ | Foggy | Fair | Fair |
| 20, | - 38 | $\because 41$ | ${ }^{4} 39$ | " 39.5 | 29.57 | 29.48 | $\begin{aligned} & 29.68 \\ & 29.53 \end{aligned}$ | 29.53 | N | $\cdots \mathbf{N}$ | $\underset{N}{N}$ | Fair | Show's | Rain |
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# THE ANATOMY PHYSIOLOEY, AND PATHOLOEY OF THE EYE, 

BY HENRY HOWARD, M. R.C.S. L.,
Surgeon to the Montreal Eye and Ear 耳nstitution.
THE SUBSCRIPTION LIST to the above work is still open; and Members of the Profession desirous of subscribing to the same, are requested to furnish their names without delay. The work will be puit to press as soon as one hundred subscribers are obtained, thirty-five being now on the list, to whom the price will be $\$ 4$-and to non-subscribers $\$ 5$.
Montreal, September 25, 1849.

## SCHOOL OF TIEDIGINR AND SURGERY.

THE LECTURES at the SCHOOL will commence on Monday, the: 1 st of November, and will be continue.
till the last day of April, 1850. During the Session, Lectures or the following Departments of Medical Edu cation will be delivered, viz :-

Anatomy, Chemistry, Materia Medica, Surgery,
The Lectures are given in the French Language. Montreal, October 1, 1849.

## Practice of Medicine, Midwifery, Institutes of Medicine, Medical Jurisprudence.

L. BOYER, M.D., Secretary.

## MASSACHUSETTS MEDICAL COLLEGE.

THE MEDICAL LECTURES of HARVARD UNIVERSITY will commence at the MASSACHUSETTS MEDICAL COLLEGE in BOSTON, on the first WEDNESDAY in NOVEMBER.

$$
\begin{array}{ll}
\text { Obstetrics and Medical Jurisprudence by } & \text { Walter Channing, M.D. } \\
\text { Materia Medica and Clinical Medicine by } & \text { Jacob Bigelow, M.D. } \\
\text { Theory and Practice of Medicine by } & \text { Jonn Ware, M.D. } \\
\text { Chemistry by } & \text { John W. Webster, M.D. } \\
\text { Pathological Anatomy by } & \text { John B. S. Jacison, M.D. } \\
\text { Anatomy and Physiology by } & \text { Oliver W. Holmes, M.D. } \\
\text { Principles and Operations of Surgery by } & \text { Henne J. Bigelow, M.D. }
\end{array}
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Clinical lectures at the Hospital three times a week by the professors of Clinical Medicine and of Surgery. Surgical operations are very numerous. The sufe and effectual practice of etherization is taught in this School. Practical Anatomy is amply provided for by new and liberal arrangements.

Fees for the whole Course, $\$ 80$. Marticulation, $\$ 3$. Dissecting Ticket, $\$ 5$. Graduation, $\$ 20$. Hospital and Library gratuitous.

A descriptive pamphlet may be had by application, post paid, to David Clapp, Printer, corner of Washington and Fran klin streets, Boston.
July 4, 1849,

## TORONTO SCHOOL OF MEDICINE.

THE next session will commence on the LAST MONDAY in OCTOBER, and terminate on the LAST MONDAE in APRIL; under the following Lectures:
. On Anatomy and Physiology
MMidwifery and Diseases of Women and Children
Principles and Practice of Surgery
Theory and Practice of Medicine
Practical Anatomy
Materia Medica and Therapeutics Chemistry

DT: Rocii.
Dr. Workman.
Dr. Park.
Dr. Morrison.
Dr. Aiken.
Dr. Langstaff:
Mr. Hurlburt, A.M.
This school is recognised by the Faculty of Medicite of the University of McGill College, Montreal, and qualifies for graduation, in accordance with its rules.
Toronto, July 16, 1849.

# * PROPOSED AMENDMENTS 

## BY-LAWS OF THE COLLEGE OF PHYSICIANS AND SURGEONS OF

## LOWER CANADA.

IN accordance with the provision of the By-Laws of the College; requiring six month's publication of proposed amendiments to any of the By-laws, previous to the Triennial meeting of the College, at which they will be considered, due notice of the following is hereby given.

At a meeting of the Board of Governors of the College of Physicians and Surgeons, held in the city of Montreal, on the ninth day of October, one thousand eight hundred and forty nine; it was

Proposed by A. Hall, M.D., seconded by A. H. David, M.D., and resolved, that the following amendments to the By-Laws of the said College, be submitted for adoption at the ensuing Triemnial meeting of the Corporation, to be held in the town of Three Rivers, on the Second Wednesday of , Iuly next ensuing, being the tenth day of July, one thousand eight hundred and fifty.

## AMENDMENTS.

## BOARD.OF OOVERNORS.

§ 1. In place of § 1, substitute the following-"The affairs of the College shall be conducted by a Board of Governors, thirty-six in number, fifteen of whom shall be elected from among the members of the College resident in the District of Quebec and Gaspé-fitteen from among its members resident in the District of Montreal-three from among its members resident in the District of Three Rivers, and three from among its members resident in the District of St. Francis'; and of the' said Board of Governors, neither more nor less than eight shall be resident in the city of Quebec, and neither more nor less than eight shall be resident in the city of Montreal.?
" $\$ 9$." After the words "certificites" insert "and licenses;" and for "until it shall have been duly closed," substitute "during the first day of its session."

## officers of the colleae.

§ 1. Ad the following, " It being understood that when the President resides in either city, the Vice-President may be elected from among the Governors residing out of the city; and vice versa, if the Vice-President resides in either of the cities, the President may be elected from among the members of the Board not resident in the cities."

## Omit the preamble. OF MEMBERS.

§ 1. Instead of" 1 , substitute the following, "No one Who has obtained a license sincs the passing of the act of
amendment (May 30. 1849), shall be admitted a member of the College of Physicians and Surgeons, until after the ex-piration of four years."
§ 2. Add the following, "which document must be handed to the secretary, at least ten days before the semiannual meeting."
§ 5. Instead of § 5, substitute the following, "Every person proposed as a member, shall be considered elected, by receiving a majority of the votes of the Governors, present at the Board."
§ 7. For "certificate of membership," read, "diploma of membership."

OP IICENTIATES.
§1. For § 1 substitute the following, "Licentiates are entitled to the appellation of Licentiates of the College of Physicians and Surgeons of Lower Canada."
§ 3. For $\$ 3$ substitute the following, "The Diploma for Licentiates shall be signed by the President and Registrar, and by the Vice-president, and Secretary of the District in which the meetng is held, and shall have the seal of the College affixed thereto."

## OR THE MEETINGS.

Add the following By-law.
§ 4. The Board of Governors may, if they see fit, depute Committees, consisting of not less than three meinbers of the Board, in the districts of Quebec and Gaspé, Montreal, Three Rivers, and St. Francis, to be Boards of Examination in regard to the preliminary , qualifications of $i$ candidates for admission to the study of Medicine; and the : said Boards of Examination, shall hold their sessionsfor the purpose specified, at such time and place as they shall see fit, giving at least fifteen days notice of their intention so to do, in some public journal published in the District? with the circumstances specified under by-law 3. The said notification of meeting to be signed by either of the District Secretaries.

Line $\mathfrak{2}$, for "Certificate"" read « Diploma."
Line 3, omit in toto, having reference to the enregistration of members.
? 1 ?
Line'5, for "certificate recommending for License," read. "fee for Licentiates."
The following to be a By-law.
§.2. All candidates for license, or intending students proposing to pass their preliminary examination, shall deposit with the secretary the amount of fees due to the Col. lege in the event of succéssfíl examination, at the time that they hand in their credentials.

REGULATIONS.
§ 1. For "a certificate of license," substitute, 'licnise"


[^0]:    (ART. XLII--EPIDEMIC BOWEL COMPLAINT DURING THE LATTER PORTION OF THE SUMMER 1849, at St Catharines, c. W.

[^1]:    *-..Ansontis sia; or the employment of Chborofirm and Ether in Surgery and Midwifery." By J. Y. Simpson, M.D., $\mathbf{F}$ R, N.E. \&c.
    $\dagger$ "Anresthesia, \& \& c," "p. 112, Ed. Phil.

[^2]:    * The early Hebrew grammarians divide the parte of spect into three only, viz., the noun, verb, and particle.

[^3]:    - Anesthesia, p. 113.
    $t$ Since from it, or rather, from the Infinitive nood, from which it is derived, spring the other six forms, of the verb, with their various moods,' tenses, participles, \&c.

    4. Anæsthesia, p. 113.
    j Ed. Venet, 385 th column.
[^4]:    * Fresenius Anal. Quan. p. 487.
    $\dagger$ Juarual de Chimie et de Pharmacie, tom. vii.' p. 15, "
    $\ddagger$ Bul. de l'Académie de Médecine, $1844-5 ;$ p: 160 .

[^5]:    * Voyez aussi Graham' Chemistry, p. 315, ct Rose Traite Pıatique, tom. i. p. 227.

[^6]:    Fresenius Anal. Quant. p. 352.
    Rose, Traite, tom. i. 432, et seq.; et Fresen. Aral. Qual. p. 223.
    $\ddagger$ Comptes rendus de l'Académie des Sciences xxiii, p. 612.
    § Annalen der chein. und pharm. tom. Ixi. p. 192.
    || Rose Traite, tom. 11, p. 214 ; et Fresen. Anal. Quant. p 230.

[^7]:    ${ }^{*}$ Rose, Traité Pratique, tom. i. p. 69.
    $\dagger$ Id. Traite Pratique, tom. ii. $p$.131, et Mémoires de Will et Walchner, deja cites.
    ${ }^{1}$ Rose, Traté de Chimic, tom, ii p. 61.
    § Id. Traite Pratique tom. i. p. 72 ; nussi Fresenius Bulletin de la Soc. Chim de Londres, part. i.. p. 130.

[^8]:    * Fresenius Anal, Quant. p. 250.

[^9]:    Art. XLVII.-Scobif \& Balfour's Canadian Almarac and Repository of useful Knowledge, for the year 1850, \&c. . The astronomical calculations having been made expressly for the Almanac, for the meredians of T'oronto, Montreal, Quebec, Halifax, N.S., and Fredericton, N.B. Toronto: Scobie \& Balfour, King-street. 8ve. Pp. 80.

[^10]:    - M.Gillivay, Aberdeen Journal, March 23, 1849. Paintinga of these animals and their skins are said to be preserved in the Museam of the Royal College of Surgeons of England.

[^11]:    * Dr. Kirkes also appears to regard the canse as a local one. Referring to Loid Morton's case, he observen-" The single inpregnation, by the seminal fluid of tic quagga, had impreseed its

[^12]:    * Strzelecki reentis the following ramark:ble ciramsance which came within his own personal knowledge:-A parly of Aborigines in Van Diemen's Lnind, to the nimber of 210 , wrye deported by geverninent in 1835 to Flinder's Island, on account of ageressions made by themon the colonists ia theirneightortured, by whon, however, they had been contaminated. They had only fourteen children born anoung them during the next seven yearf. It is true, that, in the course of that time their own numbrrs had dwindled away to fify-four. Still the small number of birihs is singular, and contrasts strikingly witi the fact, that "cach Camily, in the interior of Nuw South Wales, uncontaminated ly
    contact with the whites, swarms woith children.

[^13]:    * Let us cantion our readers not to use the tinctures in com. mon use in this country in such dosns. No physician ourght to prescribe aconite, without minutely specifying the preparation he intends to be tsed. That which we proler is Dr. Fleming's Tincture of the root, which is tranepirent, in colour like sherry wine, and of a slighty bitter taste. The following is the formala. "Take of root of A. Napellus, carefnlly dried and finely; powdered: sixteen ounces troy ; rectified spirit, sixteen faid ounces; mace. rate for four days; then pack into a percolater; add rectified spirit until twenty ounces of tincture are obtained." Doso, from three to five minims in repeated doses.

[^14]:    *Vide Boston Mcdical and Surgical Journal, No، 3, Vol. XLl: page 52.

[^15]:    * Vide Booton Medical and Surgical, No. 3. Vol. XIII. page 52.

