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# MEDICALCHRONICLE. rOL.IV.) <br>  <br> [Nis. E . 

## ORIGINAL COMMUNICATIONS:

ART'. XVI.—On delsease of tine szina-remel capsules. with. e cuse. By
 gery, ille (ill Cullege. Phesician to the Me ntreal fiomeral llospital, de.
The themms oram was, wathereat bone ty, very propery termed by loseph Franck, the corms moniprehensiolle. Nor in it the only organ in
 bodies : Alied to the thymus, including with Rekert the pitiatory sland, which are known as the vasctimp of huctless glunts, are aprarently as little understood hy anthoritios on phasology mos: as ever they were. And this, notwithstanding the reprated inverigations of careful and talented observers. As regaris the supra-reaal or atrabiliary capsules, so diverse are the etatement.s made by liferent anamists and physolugists concerning their structure and functions, they wonld appear to be peculiarly entitled to the appelation of incomprehensible bodies. These capsules or glauds are sma!!, flatened, triangular bodies, which vary considerably in size in different individuals. They ordinarily measure, however, about one inch and a half in height; an inch in width, and from one to two lmes in thichucss. The weight of each is from one to two drachms. According to Rokitausky they are oceasionally deficient, especially when there is a deficiency in other organs also; they are generally present when one kidney is absent; and the fusion which so often oscurs in the kidneys, is not found to take place in them. "Accessory supra-renal capsules, indicating an apparest excess of development, are of frequent occurrence. Several flattened accessary supra-renal capsules are then found in the renal and solar plexuses, and on the ganglia of the latter, varying in size from a millet or hemp-seed to that of a pea." Meckel has also found supernumerary
capsules, althongh he duos not mention then site. He merely ubserves that the phenomenon is meresting as being one which is frequently observed in regard to a negghoring organ, the spleen. : Line anomalie pronitive trés genciale consiste dans leur pelitesse extreme on mẻnie lour absence totule, qua accompague le developpement meomplet de l’éncépht: le et de la mostue supiriente du curps en général. On ne connait que deux outros cas de cette espece dans lequels les capsules surrdnales aient ete irouvées, offrant le volume qu'elles ont ordinairement." The caprule is composed cl an external or cortical, and an in:arnal or medullary partion. The cortical structure forms the greater portion of the substance of the organ, is firm and striated, and of a deep yellow colour; the medullary is soft, pulpy, and brownish-black in hue. From the dark colour of their interior, and from a supposition that they were the organs which secreted the atrabilzs, Caspar Burtho. linus, and the older anatomists, named them the atrabiliary capsules. According to Sinon, the cortical portion consists of closed tubes, having no conmunication with each other, arranged in columnar masses perpendicularly to the suriace of the cansule. They are surrounded by a plexus of blood vessels supported by fine processes sent inwards from an outer fibrous investment of the organ. Their interior is lined by a delicate limitury membrane, and in this opinion he is supported by Ecker and Frey, and Hassall. The tubes are filled with a granular plasma, nucleated cells and oil gluhules. Mr. Gulliver has found that the granules form the principal mass of the gland. Their size varies from 1-6000th to $1-24000$ th part of an inch in diameter. The nucleated corpuscles, according to the same observer, are few in number in the human subject, although they ure numerous in the ruminantia. Kolliker describes the cortical purtion as being composed of a fibrous stroma of connective tissue, so arranged as to leave oval spaces, which are filled with a granular plasma, oil particles, and nucleated cells. He denies that these staces are lined with a preper limitary membrane, thus differing from Simon, Ecker and Hassall. The medullary portion consists of a stroma of connccive tissuc derived from the cortical substance. It contains numerous bluod vessels, a plexus of minute veins, according to some anutonists, and a large surply of nerves derived from the sympathetic system. The tissic is arranged in lamira, and the interspaces are filled by a granular plasma, in which are nucleated cells in different stages of development. "The recent observatious of Kolliser upon the rature of these cells," says Dr. Carpenter, "which are confirmed by the rescurches of Leydig upon the curresponding organs in the amphibia, seem to indicule that they are really ganglionic in their character."

Marjoln, Boyer, Mandl, and others, describe a cavity in the interior of the organ of a somewhat tranguiar form, into the inferior part of which projects an obluag eminence, resembling a cock's comb. The existener of this cavity is denied ly othera. Kolliker believes it to result, when tomd, from the separation of the medullary from the cortical portoon after death. Gulliver says, "the gland has seldom a cavity, although a large mud distinct venous sinus sometimes exists." Cruvelluer considers it lonbtful whether the supra-renal capsules have a cavity in their interior, as their name would seem to indicate; and Meckel, after careful research, adopts the opinion of those who deny the presence of a cavity. "Je pense," he further adds, "que cette cavite g'existe pas, du moins dans l'etat regulier, qu'elle ne se forma qu'après la mort, et qu'elle est le résultat soit de la décomposition spontanée de ln substance interne, qui a très peu de consistance, soit de la destruction de cette mene substance nar les manipulations auxquelles on soumet l'organe en l'examinant."

Many of the older anatomists supposed that these bodies possessed an excretory duct, by means of which they communicated with other organs. This opinion is completely exploded by modern observers. Bartholin, Peyer, Valsalva and Ranby, believed them to communicate with the testicles; Kulmus with the thoracic duct; and Huermann and Bendt with the pelvis of the kidney. Gulliver thinks it probable that the veins are the excretory ducts of the gland.

They are largely supplied with nerves derived from the solar and renal plexuses of the sympathetic. According to Bergmann they receive filaments from the pt:revic and pueumogastric nerves. They are also richly supplied with blood vessels from the aorta, the fihrenic and the renal arteries.
The functions of the supra-renal bodies are still undetermined. All researches into their anatomy have been barren of results, so far as their physiological action is concerned. It yet remains to be seen, however, what light pathology will throw upon this obscure subject. The recent discovery by Dr. Addison, of a connection between certain abnormal conditions of the system and a diseased state of the supra-renal capsules may lead to the establishnent of their true value in the economy. For, as that gentleman has truly observed, " 1 f pathology be to disease what physiology is to health, it appears reasonable to conclude, that in any given structure or organ, the laws of the furmer will be as fixed and significant as those of the latter; and that the peculiar characters of any structure or organ may be as certainly recognized in the $\frac{p}{2}$ henomena of disease as in the phenomena of health."

Dartholinus, as I have belupe oherved, beheved them to be the secreting organs of the atrabilis of the ancients. Treviranus considered them incomplete rudinents of generative organs. Sir Everard Home thought they ucted tine a filter, "by which suy ol left in the arterial brameles that are neur the kidneys may be srparated and prevented from making its escape by the tubre urinifera of these glands." Many moderns, classing them with the vascular glands, assign them an unknown oftice in the preparaion and maintenance of the hlood. The opinion of Wharton and Dwernoy, that the supra-senal capsules are ganglia of the renal nerves, has heen revived and adopted by recent investigators. I, oliker considers the cortical and medullary portions to be physiologeally distinet. The former he places with the ductless glands, the bitter he bclieves to be an appendage to the nervons system. Carpenter says taat the medullary Lears no relation to the cortical sulbstance, but is really a sympathetic ganglion; :and he adds, "a curious observation strikmgly coufirmatriy of this view of the pecular relation of the medallary sulwane: to the nervous system. has been recently made by M. Brown-sequard, $v . \%$ : that injuries to the spinal cord, in the dorsal region, produce eongestion and (aftar at time) hypertrophy of the supra-renal capsutes." 'the rehtion of the accessory capsules, observed by Rokitansky, to the remal and solur plexuses, is, mour upinion, also strongly confirmatory of this yew.
M. Brown Séquard has ecemly perlurmed a number of experments with the view of determining the effects of extirpation of the suprarenal capsules. From the resulte of these experiments he dechares that they are as cosential to hit as the kilneys. He experimented ondogs, cats, gumea pirss and rubbits. "'lhe average duration of life after extirpation of both oreans wes about cleven hours and a half. As yet even alter the removal of but one rapsuie death has mariably resulted. The prinepal sympioms ohscrved consisted in a remarkable debility, difficulty of respiration, disturbed cirenlation, and at length convulsions, giddiness, delirum and coma. He believes that after the removal of the capsules the blool beomes charged with a poisonous principle, which is the caube of death. Messrs. Flourens, Rayer and Clande Bernarl have been appointed a commission by the Acadamy of Sciences, Paris, to examine M. Brown Séquard's statements.
"M. M. P. Gratiolet has also read a paper to the Academy of Sciences on the same subject. Mi. Gratiolet's experiments have been made on guinea pigs only, and do not appear to have been very numerous. His conclusions are as follow:-1. Aiter the removal of the left capsule only, the animals recovered and regained perfect health. In one in-
stanco the animal lived two munths and a half, and was quite well when it was killed by a sccond experiment. 2. After removal of the left capsules, or even of the right only, in all cases the animale died within forty-eight hours, the autopey showire peritonitis and inflammation of the liver." (Mr. Ienathan Hutchison in Medical Cirenlar.)

It great uncertainty has hitherto prevailed regarding the nnatomy and physiology of the supra-renal capsules, until recently, ubsolutely nothing was known of the effects produced on the system by their disease. Indeed, the medical worid has been startled from its propriety, by the recent piblication of Dr. Addison's monograph on "the constitutional and local effects of disease of the supra-renal capsules," which proves, almost beyond a droubt, that a diseased condition of these bodies is one of the most serions eontingencies to which poor humnnity is liable, nearly every instance, as yet recorded, having proved fital.

Dr. Addson had fer a long time met with a "very remarkable form of general aummia, occurring wichuat any discoverable canse whatever; cases in which there had been no previous loss of blood, no exhansting diarrhaa, no chlorosis, no purpura, no renal, splenic, minsmatic, glandular, strumons, or malignant disease." Whilst secking to throw some light on this form of anæmia, he discovered the disease, the leading characters of which are :-" Anæmia, general langour and debility, remarkable feebleness of the heart's action, irritability of the stomach, and a peculiar change of color of the skinn, occurring in connsction with a diseased condition of the supra-renal capsules. As hass been observed in other forms of ancemic disease, this singular disorder usually commences in such a manner, that the individual has considerable diffeulty in assigning the number of weeks or even months that have elapsed since he first experienced indications of failing health and strength ; the rapidity, however, with which the morbid change takes place, varies in diferent instances. The patient falls off gradually in general health; he becomes languid and weak, indisposed to either bodily or mental exertion; the appetite is impaired or entirely lost; the whites of the eyes become pearly; the pulse small and feeble, or perhaps sumewhat large, bit excessively soft and compressible; the body wastes, without, however, presenting the dry and shrivelled skm, and extreme emaciation, usually attendant on protracted maliguant disease; slight pain or uneasiness is from time to time referred to the region of the stomach, and there is occasionally actual vomiting, which in one instance was both urgent and distressing ; and it is by no means uncommon for the patient to mauifest indications of disturbed cerebral circulation. Notwithstanding these unequivocal signs of feeble circulation, anmmia, and general
prostration, neither the mont diligent enquiry, nor the most careful physical examination, tends to throw the slightest gleam of light upon the precise nature of the patient's malady; nor do we succeed in fixing upou any special lesion as the cause of this gradual and extraordinary constitutional change; but, with a more or less manifestation of the symptons already eanmerated, we discover a must remarkable, and, so far as I know, characteristic discoloration tnking place in the skin-sufficiently marked, indeed, as generally to have attracted the attention of the pationt himself, or the patient's friends. This discoloration pervades the whole surface of the budy, but is commonly most strongly manifested on the face, heck, superior extrenities, penis and scrotum, and in the flexares of the axi'la und around the navel. It may be said tupresent a dingy or smoky a ${ }^{\prime}$, earance, or various tints or shades of deep amber or chestnat brown ; and in one instunce the skin was so universully and so deeply darkened, that, but for the featurcs, the patient might have been mistaken for a mulatto.
"In some cases this discoluration uecurs in patches, or perhaps certain parts are so much darker than others, as to impart to the surface a mottled or somewhat chequered appearance; and in one instance there were, in the midst of this dark mottling, certain insular portions of the integument presenting a blarched or morbidly white appearance, either in consequence of these portions having rehuained altogether unaffected by the disease, and thereby contrastiug strongly with the surrounding akin, or as I believe from on actual defect of coloring matter in these parts. Indeed, as will appear in subsequent cases, this irregular distribation of, pigment-cells is by no means limited to the integument, but is occasionally also made manifest on some of the internal structures. Wo have seen it in the form of small black spots, beneath the peritoneum of the nessentery and onentum-a form wheh in one instance presented itself on the skin of the abdomen.
"This singular discoloration usually increases with the advance of the disonse; the unemia, languor, fuilure of appotite, and feebleness of the heart, become aggravated ; a darkish streak usully apprears upon the commissure $0^{\prime}$ :ho lips; the body wastes, but withoul the extremo ewnciation, and dry harsh condition of the surface,so commonly observed in ordinary malignant diseuse; the pulse becomes smaller and weaker, and without any special complaint of pain or monasiness, the pationtat length gradually sinks and expires. In one case, which may be said to have been acute in its developement as well as rapid in its course, and in which both capsales were found universally diseased after death, the mottled of chequered disculoration was very manifest, the anæmic condition strong-

Jy marked, and the sicknees and vomiting urgent ; but the puise ingtend ofbeing small and feeble as usual, wan large, soft, and easily compremble and jerking on the slightest exextion or emotion, and the patient apeadily died."

Dr. Addison reports elaven cases of this disease in his monograph, accompanied by plates exhibiting the appearance which the skin presented in eight of the patients. Since the publication of these cases, six additional ones have been observed in London, aud reported by Mr. Jonathan Hutchinson, in the "Medical Times and Gazette." Two canes have been observed in Paris ; one by M. Tronsseau, the other by M. Cazenave, of the St. Louis Hospital ; and oue in Nantes by M. Malherbe of the Hotel Dieu. On this continent three undoubted cases of disease of the supra-renal capsules have been diagnosed. Two of them in New York, the third in Montreal. In the September number of the "New York Journal of Medicine," Dr. Isaac E. Taylor has an able article, "on the sunburnt appearance of the skin as an early diagnestic symptom of supra-renal capsule disease; with colored illustrations,".jn which he reports five cases. Two have terminated fatally, and the post mortem appearances confirmed the diagnoass; three yet remain for confirmation. I agree with Dr. Taylor that the term" sunburnt appearance," particularly in this country, will convey a better idea of the shade of discoloration than that of "bronze," introduced by Mr. Hutchinsun.
The following are the particulars of the case noticed in this sity, from notes taken by Mr. Thurlowe Cunynghame:-
William Fraser, æt. 28, a nutive of Scotladd, was admitted into the Montreal General Hospitul on tho th July, 1856. On admission, his aymptoras and appearance indicated the second stage of phthisis, which a more complete subsequent examinution fully confirmed. He states that his occupation having been thut of attendant on a saw mill, he was .obliged to bo frequently in the water, and being exposed to sudden alternations of temperature, he got a severe attack of pneumonia, which Kept hius in hospital at Three Rivers for two months. When he had recovered from thiy attack, bo returued to his former employment, and caughta second cold, more severe than the preceding one. It was followed by a severe cough and profusc expectoration. He experienced at this time great pain in the region of the kidneys. From the peried of this last attack he has been unablo, through debility to do anything. Ho first noticed that his skin was discolored abolt fifteen months ago, while he was last in Hospital in Three Rivers. It was then more distinot than at any subsequeat posiod, appecially on the face, neck agd ohegt:

On the 1st of August, when Dr. MacCallum entered on the duties of the hospital, his condition was as follows:-Great emaciation; surface generally of a snlluw hue; on the face, neck, chest, shoulders, and in the axilla, are large patches of discolored integument, resembling in shade the color produced by long exposure to a hot sun ; the patches on the chest are covered with a mealy desqunmation; those on the face occupy the most prominent parts; on the forehead the coloration extends to neur tho commencement of the hair; it is not found on the scalp. There is on tho mucous membrone of the lips, near its junction with the integument, and surrounding the mouth, a well-marked, deep brown line. Conjunctives of a pearly whiteness; ends of fingers clubbed, and nails incurvated. Great flattening of thorax in the infru-clavicular regions, with diminished expansion movement of buth sides, that of the ight side being most marked; ele-vation-movement quite distinct. Percussion olicits a sound of equal intensity on opposite sides of the chest ; the resonance, however, is much less than that of a healthy thorax. Auscultation discovers in the right infra-clavicular and mammary regions gurgling rales, cavernous respiration and pectoriloquy; in the infra-mammary and axillary regions of the same side, large mucous rales. In the left infra-clavienar region there are mucons rales, which gradually disappear as the mammary region is approached. Sounds and rhythm of heart normal; pulse frequent and weak; cough very annoying; profuse muco-purulent expectoration. Fraser has a melancholy, dissatisfied expression of conntenance; his movements are sluggish : appears disinclined to converse with any one; speaks slowly and with an apparent effort. He complains of great debility ; but what nppears to give him most uneasiness, and, indeed, enguges lis eatire attention, is a sensation of pain seated in the epigastric, and extending into the hypochondrice regions. 'This pain is constant, is not au achte, but rather a dall, gaawing pain. It is not accompanied by vomiting; is not increased after the ingention of food, or by pressure made on the abdomen.

Dr. MacCullam diagnosed :-Cavities, with extensive softening in the right lung; tubercular infiltration throughout, with commencing softening in the apex of the left lung; disease of the supra-renal capsules, probably tubercular.

The treatment on which Fraser was placed when first admitted into hospital, was continued. It consisted in tho administration, with alight variations, of cod liver oil, quinine, sedntive cough mixtures, porter, wine, and nourishing diet. Various remedies were given to relieve the dyspeptic symptom, with, however, only partial success. The combi-
nation which afforded most relief was the follewing:- $\mathbb{R}$ Acidi hydrocy. m. xl. ; morphi sulphw gr. iss. ; arfux, $\mathfrak{j v i}$. m. A table spoonful to be given every fourth hour. Very little change occurred in his condition until about $\mathfrak{a}$ fortnight before dissolution, when colliqnative diarrhaea set in; emaciation and debility became extreme; ho rapidly sunk and died on the 3rd October.

Post-mortem twenty-four hours after death. Reported by Dr. Craik
On opening the chest, both lungs were found to be completely adherent to the parictes of the chest by orgavized lymph, so much so, that it was inupossible to remove the lung without lacerating thein. The upper part of the right lung'was interspersed with large vomice, and was so much disarganized as to be broken down by the slightest attempts at separating the adhesions. 'The lower part of the lung was infiltrated with softened tubercular matter. Throughout the whole of the left lung crude tubercles werc plentifully disseminated, and at the apex there existed a small vomica.

The thymus gland was seen projecting ato the thorax on the right side, and was considerably enlarged, being abcut an inch and ith in length and one inch in breadth. In form and consistence it resembled closely a bunch of enlarged mesnnteric or lymphatic glands.

Pursuing the examination upwards the thyroid gland was found altered in appearance and size. The right lobe was aboat twice the size of the left, aud measured $2_{\frac{1}{j}}$ inches in length by $1 \frac{1}{i}$ breadth. It was semi-transparent, with a smooth surface and the consistence of cartilage.

The heartand the pericardinu were healthy. The abdomen was next opened, and all its cuntents !. und to be unnsually vascular. The liver was slightly enlarged, bat in other respects was normal.

The spleen was large, weighing 101 ounces, and was firmer in texture than usual.
The coats of the stomach seemed slightly thickened, and there was - considerable vascularity of the orgat.

The left kidney was next carefully removed without separating it from its capsule, which latter was found much enlarged, forming a large projection on the upper part of the organ fully an inch in diameter. It had loat its flattened cocked-hat shape, and was almost ropnd. On cutting it, it was found to be tough and cartilaginous in structure, and divided into sevieral distinct lobules or masses, which were all included in the same investing membrane. The appearance was uniform throaghout, and no trece of a division to be found. A thin section being made and placed beneath the microscope, it presented a ffbrous stroma containing in ite meshes, which were widely separated, a granulatpliz
ma, with numerous tubercle corpuscles scattered through it. The kidney itself was of the usual size and presented nothing remarkable.

On proceeding to remove the right kidney tho supra-renal gland was found also much enlarged, but so much sofened as to render it impossible to remove it entire. It was so soft as to be easily broken down betweon the fingers. Tubercles in the process of sotlening were distributed through the cortical portion of the organ.

The brain was examined and found healthy.
The furcgoing caso differed materially from those of Dr. Addison's, as regards tho deepness of the integumental discolorntion, if we are to take, as fuichful, the representations made by the artist for his monugraph. There wus certainly a general sallowness, which was not, on the patient's own testimony, his natural complexion, but this did not amount to more than what we observe in various cuchectic conditions of the body. Tho true browning was limited to the places mentioned in the notes of the case. The spots on the surfuce of the chest with their mealy desquamation, were such as $I$ have been accustomed to regard as pityriasis versicolor, when it is of a brownish tint. I regret now that 1 did not examine for the fungus discovered by Eichstadt. For, if that had been found, it would have assisted in determining a question which has yet to be worked out, viz: Is there auy conncetion betwean those diseases, characterized by disordered chromatogenous functions of the skin, which are known under the different names of melanopathia or nigrities ; melasma or pityriasis nigra; pityriusis versicolor, chloasma, macule hepatica, nucule gravidurum, sc., and disease of the supra-rraal capsules? I have now a case under observation which, shoulc it pursue the usual fatal course of supra-renal disense, will tend to throw some light on the subject.
The most marked symptom in Fraser was certainly the peculiar sensation of paiu which he experienced in the epigustric region. When questioned as to his feelings he invariubly referred to it as the only condition which was worthy of attention. The cougla, though very severe, and dehility, though well marked, were not the subject of complaint. Llis constantappeal was, "relieve me from this pain aud I'll be confurtable." And when the dull gaawing, depressing sensation at all abated from the aclion of medicines, he became comparatively cheerful. The relation of the supru-renal capsules to the sympathetic system, sufficiently sccounts, in my estimation, fúr the character and persistance of this sensation.

The fuct of the other ductless glands exhibiting departures from a normal condition, is rather interesting.' The thymas was long and
tougue-shaped and evidently the seat of tnbercular deposit. The thyroid body was slightly increased in size, retaining however its natural form. Its texture was completely changed ; it was of a cartilogiuous consistence; had a waxy feel, nad was completely aucmic. It, in short, exhibited the appearances frequently ohserved as the result of struma. The spleen vas in a state of hypertmia.

ART. XVII.-Medical Curoners. By A. Von Iprland, M.D., Vice President of the College of Physicians and Surgeons, C.E. \&c., Grosse Isle.
The medicnl profession, however closely identified with the general interests and happiness of the people, has seldom met with that appreciation on the part of Governments, which its importance and usefulness to the sociul fubric, ought at all times to claim; I was therefore gratified to perceive by your excellent editorial in the August number of the Medical Chronicle, that so important a subject, as the necessity of selecting Coroners by our Provincial Government, from among the best educated and most resprectable members of the medical profession, had also engaged your attention.

It is not my intention of taking a retrospective view of the namerous inquests, on cases of the highest interest and importance, which for many years hnve falleu under my insmediate observation in Lower Canada, and which have sometimes evjdenced, not only the most culpable ignorance on the part of Coroners, in guiding the investigation of juries, bat have frequently resulted in impunity to crimes of the most flagrant character. And I need scurcely advert to the enormons expeoses which have unnecessarily been jucurred by the Province, by entrusting the attainment of the ends of justice, to men whose acquirements rendered them totally inadequate to the fulfilment of the office.

Have we not seen, in times of irresponsible Government, and perhaps since it has assumed a responsible character, lawyers, yet unqualified in the opinion of the members of that profession, to practice in the Court of Justice, (I make the amende to one of the late Coroners of Montreal, as a geatleman of high attainments, and now placed in a position to exercise them), uppointed to the office of Coroner., It is marely inconsistent, if not absurd, to place such men in a situation where thay are to become the expounders of science in its rarer, and more olscure bearings, and when it is often necensary to lay bare betore a Jury all those difficult and abstruse subjects, on which, if not from his-
own experience and observation, the collected intelligence of our best authors may throw some light.

It is well known to yon, as well as the medical public of Canada, for Medical Journa's, mfurtunately, seldom extend farther than to our professional lrethren, that after sume years had been spent in agitating the question, a great relormation took place throughont England, with regard to the neeessity of arpointing medical men as Coroners. And I an happy to observe, that gentlemen now educated to the profession of medicine, are gencrally selected, nut only in England, but in Upper Canada, to fulfi that judicial oflies; in Lower Canada, no such reform has taken place, the present incumbents are, 1 believe, mon of respectable standing in society, but the question arises, are they possessed of those educatioual acquirements which are indispensably necessary to meet the high and important intentions of the law. Are they competent in all cases to decide as a llhysician, or rather, as a citical anatomist wonld, upon the nature of wounds, cunturiuns, factures, \&c., discoverable upon the dead boly of a fellow-ecature, the cause of whose death, if at all involved in olscurity, is to be first explained, as far as it can be, by that Offecr. I shall offer no observation tonching toxicology, because, in all cases where poisoning is supposed to have caused death, the analysis is generally referred to the must experienced and scientific Chemists. Yet, the Coroner should be woll acquainted with the definitions of poisois, the symptoms fullowing the taking of poison, whether irritant and corrosive, narcutic and narcutico-irritants, \&cc., and the certain character whereby symptoms of poisoaing may be distinguished from those of disease. It is an established fact, that 12 years ago, out of 100 cases requiring medical evilence, either before the Cooner, or in the Superior Conrts of Law, in England, there were of poisoning, 45; wor ads and personal injuries, 35 ; infanticide, 10 ; all other cases, 10 . Since that period, the number of cases of poisoning, has certainly much increased, particularly since the last 12 months.

A Coroner, in my humble opinion, and I believe it is one which carries conviction io every intelligent mind, should be well versed in Medical Jurisprudence; i.c., the application of medicine to legislation and medical police, comprising, wounds, fractures, infanticide, burns, scalds, drowning, hanging, strangulation, lightning, inanition, insanity, (delirium tremens,) \&c., \&c.

In the London Lancet of March, 1851, we have the opinion of one of the nost eminent judges in England, and who, during the progress of a trial, in which reference was made to the Coroner's Court, stated emphatically, " that none but medical men ought to be appointed to the office
of Coroner, as from their cducation they were peculiarly analified to discharge efficiently the dutics of the office." "This opmion of his lordship," the Lancet adds," has been acted upon very geuerally, hoth in England and in Ireland, as medical men are seiected in almost every place where a vacancy oceurs."

I would searcely need any other authority to bear conviction on the necessity of Government nominating medical men of ability and experience, whenever it was practicable, to that importani and responsible office, I may, however, be permitted to add the observation of anothe: respectable periodicul on the same subject, the Journal of Medical and Plysical Science, edited by Dr. Archd. Hell, and than whom, none has contributed more largely to the medical literature of this comntry, and to promote the interests and elevate the character of the profession.
"It has not seldom happered that cases of poisoning have occurred in the Country parts, and on the opinion of the neighbouring Ihysicians, inmocent of all knowledge of the action of poisons, and the proper methods of detecting it either pathologically or chemically, persons implicated in a most nefarious deed, have eseaped detection ond punishnent. But had the Coronier been a Physician of high attainments, and who by study and practice could at once detect the errors in which the medrcal witness might fall, he would have assisted the less initiated practitioner, or would have ordered the attendance of a man better qualified in such matters; one familiar equally with pathology, chemistry; and the present state of science; one on whose testimony a Surgeon could rely. And on the other hand, he might on very many occasions sare. the combtry the expense of post-morten examination in cases of suden deaths or accidents, where no suspicion or foulplay could be anticipated."

As I have already olserved in some or my writings. "it is not with us as in other professions, where the possessors of talent and genius may raise themselves to situations of great eminence and diguity, and where the remole chance of a high prize seems more likely to produce extraordinary exertions, than a greater certainty of an inferior one; yet, none comprehends so very extensive a range of knowledge, its truthsare often so proforud and so much concealed by a cursory inspection, so intricate, so much disguised, distorted and obscured by a multitade of delicate and invisible causes, that nothing less than the all-commanding eye of the most enlightened understanding, than the all-penetrating acd allsearching power of genius, can possibly recognise that which is hidden in darkness, can follow that which is remote into the last traces that it represents, can separate the essential from the accidental, and fimaily, can analyse and develope any subject of investigation so completcly as to

 penctraliug :an intellect. ss unch talent and gedins, so much force of
 mankiud, as well us the sereret recesses in the hamian herart. as the science of medicince \|t then. these high attribules. and which appertam, atone, to the wrell edmemed lhysicians, art: contrasted with the recipionts in general wit the ollice of Curonars in Iourer Cinnda sarely, the refurmathou which has originated in lingland, Irchad and l'pper Cunada, will alse lerextemed here, liy a Ministry, cumpused as it is, of nen, (whatever may be suid in opposition,) propured at all times to create such changes in unr judicial, us well as mall other departments of gruvernment, as may tend to secure the haplimess and general interests of tha people.

## AR'T XVIII.—Narrative of Cases. By Dr. Stein, Lachine.

In continving my brici nurrative, I will commence with notes that 1 have of a few cases in midwifery that have occurred to me, in which, at the time they were made, I considered that there weie in them some thinga both interesting and unique.

A poor woman, with placental presentation, had had an attempt made upon her to turn the child, in accomplishing which, on the post mortem examination was found the uterus nearly torn away from the vagina. I have nver since then cunsidered that a forcible efort made to introdace the hand should al ways be accompanied with support given to the fundus of the uterus thruigh the uldumen from above and without.

The next is the case of a woman named Marshall, in whom, after the bith of the child, the horizuntul or circular fibres uf the uterua contracted so much as to throw the wonnb into the form of a cucumber, and where the hund cuuld not be introduced to extract the placenta until this unfavuruble cundition sulusided, which lasted for more than an huur, independent of her having tuken a large dose of lundanum to subdue the spasm.

I have also the notes of a case of pregnancy at the sixth month, atrongly resembling a lurge oval uterine fumor in the person of a woman named Eusturn, aged ubuut to. She had been lately married, and had miscurried with her first child. At this time she did not think herself preguent, having suxpected, from her age, that the catamenia had ontizely ceaved, und that the hard uterine swelling was a cundtion of dis-
ease. This state, however, was constituted by the head of a child being grasped by the walls of the uterus, which surrounded it like a piece of parchment, and which only extended by the growth of the child' head, and did not enlarge by the usual form, viz., cell-deposition, throughont its structurc. The head continued in this position at the fundus of the womb during the remainder of pregnancy, and at delivery whioh was as usual in other respects, the child was born by foot presentation.
I was called about six years ago to attend a Mrs. Ree. Lately ahehad not been in the enjuyment of good health. On the evening of my mummons she had been out walking, and had taken so ill as to be obliged to rest by the way. She had all along been very bulky in the abdomen, with a atrorg feeling of bursting, and great faintness, and was not up to the full time by, 1 think, two months. There was litile probability of any syphiltic taiut. On rupture of the membranes, an immense quantity of liquor amnii was discharged, and soon after two small foatuses, living, but too young to be viable. This was assuredly a sase of dropoy of the amnion, but there was nothing antecedent in thiswoman's condition of health that could account for the disease. It may perhapa exint, or have its cause in the ovum itself. When a gush of liquor amaii, as in this case, comes away forcibly, it is rery apt tocarry the cord before it, as it did here, and has done in uther capos that I have men.
I have, as my last, the notes of a casa of atony, or complete relaray tion of the uterus ater delivery, in a woman of the name of Mitoholly wheye this was so marked, that I wondered it should not have, givent origin to flooding. No untoward symptom occurred, but by und hyma otate of irregular contration cama on, which paned on ta complate. ifrmaem and tone, with contraction of the whole uterus.
I have noten of two caries of camas whare, in two dintinct familien, oper ofithe name of Godfrey, the other of the name of M., anccosmion of children soemed to be carried off by that state of stomaohe termed. axe mallamonent, mentioned by Burns in hip work on midwifery. Thoy all. -mditated similar symploms, vin., excemive vomiting, sometimes of a amuco eanguineons malter, and this continuing till death. I shomald Filieato knowe the experience of others on,this zubject, and whechar it facims to be a common affection or nots. These caves wrere not examina. red aftar death.

Naxt comes a cape of lange colleation of mattes ovar tha region of thmi


it, this was carufully watched for some time with supposition of the necessity for opening it, but it suddenly disappeared, I suppose by absorption, or perhaps us some would believe, by exosmosis through the integument.

I have notes of two cases perhaps somewhat allied, one of pericarditis, in a girl of the name of Selvick, in connection with rheumatism, Where a large swelling like an abscess took place, over the scapula and beyond it, and shortly disappeared. The second, in a girl of the name of Clark, in whoon the disease began with pain in the left arm; fits; loss of appetite; quickncss of pulse; incapability of lying on the left side; pain in and constriction of the left side; bye-and-bye a swelling in the. giou of the latissimus dorsi; this swelling was punctured; no purulent matter reached; tent incroduced; continuing of the same maguitude for five days; great weakness; flushing and swelling with the pain still continuing in the left side and the feeling of constriction. Bye-and-bye the pulse becomes small and imperceptible; no catamenia; swelling goue ; there was greasy and dirty perspiration. This patient sunk with little or no delirium. No post-mortem was permitted. Puerperal fever and erysipelus, or intlammation of cellular tissue with influanza, were very prevalent during the ocourrence of this case. The pain in the axilla, and swelling here were so prominent, that they reariy engrossed the whole of the treutment. What is the nature of such swellings as these?
I. came to auother case in the person of a young medical gentleman, Mf.: S., whom I attended for fever of tue relansing type of Jenner; during convalescence and after putting his fyot on the cold floor, a large: swalling took place over the centre of the-thigh; anteriorly on the right sidej, being like a callection of mather, I thought an iliac abscess pointing here; it was not punctured, however, for I. afterwards looked upon it as a case of phlabitis, for which be was treatod, and made e. good re? covery. Thesa cases of pulebilis often occar after fever in certain epidemics;, and have been pointed out by authors on the subject of different epidemios. I have notes of a casa where the'abdomen oves the whole surface rase up in different places into rounded swellings produced byl inflation of the intestines. This,occurred in a person disposed to insan nity. These tumars or swellings have lately been called phantom tamors, and seem to be common in hysterical females.

The last case of tamor in my possession is one in the mamma of: Nise B.". The nature of it craated agood deal of dispute at the time, butithls was latterly set at rest •by the growth exfoliating, being filt preteded by aigood deal of uneasinesst in thes mamma. 'This lady lifty
ever since fifteen or sixteen years ago, remained quite well, and enjijs most robust heulth.

The next that I have notes of is a case of ileus or obstruction of the bowels, where no urine was secreted fur a couple of dnys or more. This condition has been puinted out lately by a Coudon Thysician, 1 think, as indicating that the seat of the obstruction exists near the stomach, there being little track of intestines existing for the accommodution of fluids, and little scope, therefore, for the function of the kidney; hence, as in this case, the want of secretion.
The following was, perhaps, a case of bronze skin, certninly it wus not pityriasis versi colur, in a young woman, Miss M. She had had dyspeptic symptoms for some time, with a marked cadaverous nspect. A large browu patch appeared on the forehead, and I believe on other purts of the body, and continued for abo it eight mouths, though all the chemiculs that have been used in bleaching were had recourse to for dispelling it. This cave occurred before Dr. Addison's views were pulslished; but the girl made a good recovery, and now, I believe, enjuys good health.
I have a case of yorrigo, or scald head, in a girl of about 11, who, on attempting the cure of it by the citrine ointment, first complained of pains flying through the chest, and afterwards became couvulsed, and died, no doubt, from the repression of the eruption.
Next, I heve the notes of two cases of tarsal inflammation, attendel with conjunctivitis, iil the ball in oue with exophthalmos, and in the other with opacity of the cornca. where the disease, like the above, on its being palliated by treatment, always induced violent constitutional symptoms, indicating, as it were, the eruptive character of these affections, sometime; the views of Beglie were not knownat the time, 1 attended the exopthalmos case, but I had a strong notion that the general inflammation of the conjunctiva had something to do with its urigill.
The noxt case that 1 have to record is that of a woman who had been delivered quite naturally. She had some anc malous symptonss soun at. tor this event, and irimediately an eraption like scarlatina over the whule body appeared, indicating what has been poiuted uut some time ako by several writers, the entrance of air into the uterine veins.

The last case that I will give at present is a pretty well marked one of combined scarlatina and rubeola, in thoservant girl of Mrs. (i. She had arrived from Montreal, where scarlet fever was very prevalent and virulent, but at the sume time she had been paying a visit to some relations of her own, anwing the children of whom measles were prevalent. My attention was directeci first to the scarlet rash which was rather
: abundantly out, and this formed my judgment in the first place, namely, of itu being scarlet fever, but on the lady informing me that ahe had been exponed to the contagion of measles, I examined more clopely and found the rabeolas eraption likewise, particularly about the hands and fromt of the arms. She had an angry-looking sore throat in addition, characterizing the scarlet fever, all the symptoms were moderate, and she is now convalescent. This subject has been discussed lately before one of the London Medical Societies.

## ART. XIX.-Remarks on a case of hernia recently recorded in the Medical Chronicle. By Dr. A. DeCouagne, Lachine.

I beg to call your attention to Art. IV, in the July number of the Medical Chrosicle. Amongst other valuable notes, that of a case of inguinal hernia struck me very forcibly, as relating to the dentical case to which I was called first, and rhich my friend, the author of the notes, attended throughout. As I happen to be in a position to hear of such cases, when they occur in this place, you will allow me to doubt that Dr. Stein ever had auother case resembling this so intimately in its prominent features. I never would have thought of taking up the matter, had the note not contained such a gross perversion of facts. Even thit might have passed unnoticed. But it involves an unpardosable breach of profersional etiquette, for which you may not find a parallel in alt the noted records of surgery. For the edification of the profession at large, I trust you will pardon me for producing the facts as they are:Lest winter, an Englishman, or rather as I was told, a Scotchman, an his way up the country from the Montreal market, stopped at an hotel in this village. A messenger was despatched for me, not finding me at home, he went over for Dr. S. The messenger had not been out of my house a minute when I returned. I immediately answered the call. I found the patient with most intense pain in the bowels and stomach recurring at intervals, accompanied with vomiting, and great pain about the testicle. On examination, swelling of the scrotum, exi tending very prominently in the direction of the inguinal canal. Thy patient said that the swelling had come on suddenly the day previous, whilst he was unloading heavy bags of grain, but he paid no attention to it, as the same thing had occurred several times before, but the swat ing would disappear as scon as he laid down. There was not the shiadow, of cynanche parotidea, alluded to in the notes. He had made servang attempts to diacharge his bowels in the morming bat with little nucpich :

I then tried taxis, but, as I expected, without any favourable remult. The case was clearly one of strangu'ated sorotal hernia, in the incipient inflammatory stage. I concluded that a consultation was necesary and an operation probably iadispensable. The patient's brother wat direotod to run into Montreal and return with an experienced Surg, an, in time to perform an operation, if necessary, before dark. It was then 2 P.M. I then came to my surgery for an aperient. On my retarn, I found Dr. S. near the patient. Without one word to me, he wont away to countermand my orders to the brother. The patient said that he was sorry he could not accept my services any longer. Dr. Stein had woorranted a cure in a few hours; he had said there was no rupture and no need of an operation. After due remonstrance I left the man to his fate, in the care of Dr. S. Next morning Dr. S. "denired a consaltation, \&c.," (not with me, thoagh). "Enemata were administered and the bowels partially relieved, and after taking ten or twelve graina of opium during the night, he felt so much better that he was able to start in the morning to return home," packed up in Buffalo robes in a sleigh. . Who wonld not after this enjoy in thirty miles winter ride in this predicament? The result my omni-sapient confrere gives you in a plain but very elastic language. "At the last ke inferred that this was a caso of hernia," and in finale, grants that "this was a case demanding anoporation."

## REVIEWS \& BIBLIOGRAPHICAL NOTICES.

XXVIII.-Humar Physiology, Statical and Dynamical, or the Conditions and Course of the Life of Man. By Joun W. Drapre, M. D., L.L.D., Professor of Physiology and Chemistry, in the University of New York. Ilustrated with nearly 300 Wood Engravings. New York: Harper \& Brothers. Montreal : B. Dawmon. 1856.

If is so natural to begin an essay upon the structure or functions of the human frame with expressions of admiration, that the writer, Whe desires to descond at once to the foundations from which the explapugtions themselves arise, feels he is under no earily mantared emharamment. For where else can more fit cause for eulogyt or where dhaie asoration more inevitable, than in contemplating the works we. carry about in our own persons? Restraining such an epinode, let us pro-
ceed to review some of the poonts in man's hife as they fall within the scope of a physiological treatise.

Oinne c.e mos was tho Liarveiau muxim, uid submequent researchen havo severally confirmed it, affirding a contradiction to the doctrine of equivocal generation which hud been prornulgated upon appareut results and unfuanded reasomings. In every instance of genesis the law of germas will, upon inquiry, te found to prevail, and never to have been broken. In tracing organization from its purctum saliens, the various successive changes have been sutisfacturly ob served, and the steps of the building ure recoguisuble. And yet, with als the accumulated intormatiou on this uteresting topic, the conclusion which follows is, hat our knowledge is only descriptive, and that wo are atill ignorant of explanatory intelligence. Attempls made towards the comprehension of the mysteries we are privileged to wituess, have been, as a whele, unsatisfactory, because

> "Facts new solulion but once more nflords New change of terms, and scaffolding of words."

Or else the conditions of the interprotation are soon found to be fallacious. In the hatching of the chick, there are a great number of occurrenses we cannot understand. Dr. Draper endeavours to account for the most of them on chemical principles. Tho composition of the egg is astonishingly simple-it being water, albumen, mucus and yellow oil,yet, from these four principles, and it is said the calcareous matters of tho sheil, are formed all the various parts of the bird, complicated and dissimilar though they be-as bones, flesh, museles, nerves, viscera, feathers, heak, claws, \&c. These, he believes, result from new combinations between the elements of the materiuls aided by oxygen derived abexterno. Thus the phosplate of lime in the skeleton is formed as incabation proceeds,-" for in the yoke there is free phosphorous to which the air finds access through the pervious shell, and affecting itsoxidation, phosphoric acid is the result. This reacts on the carbonate of iime of which the shell consists; decomposes it end the phosphate of lime forms." This fact might be established by, ascertaining the weight of the shell before incubation, and after developement of the chick, and noting whether there were any difference or not, and ascertaining if this agreed with the proportionate quantity of lime in the bones. We know of no experiments that definitely settle the question. But we think the rasult would be a negation. Aside from this ancertainty;. there are many circumstances which are opposed to the above opinion;: -as the interruption afforded by the membranous covering which 地. not an organizablestructure, and the presence of the bones berredins. the surface, buried among the soft parts, in situatione not approdidimbles
by simple contact of external uir. It is true that in removipg this hypothesis we may not have another equally satisfactory to - offer-but even this uncertainty is preferable to error, and is after all in unison with tho very muny other occurrences concerning nature, geneally, of which we are with all our bonsted enlighteument in deepily $\mathrm{m}^{\text {mo- }}$ found ignorance. It is to be expeoted that some light would be cant upon theobscurity by studying dovelopementas it proceeds in the highor order of living beings. Dr. D. has confined himself to an enameration of the description of the progress of the tissues in the animal ovam, without dwelling upon their origin, or inveytigating the laws of their evolation. In them we think there is $u$ community of action, with the formation of the components of the bird, and that both have been constructed upion a general plan, and in obedience to a auity of design. Now, withont entering into ull the ramifications of the subject, we may express our belief, that organization universally exhibits a la:v of self-multiplication, which has for its end the increase of the substance in which it has been embodied, or concerning which it has been decreed. This law becomes a power or property when it is ovoked by the nurturing circumstances that ure favorable to vivification. It is cleanly stamped upon every kind of organic matter, and seems to be their prerogative; but mey it not also be extended to inorganic substances, for all organic matter is inorganio until vitality is implanted among its molecules. We perceive selfmultiplication indubitally evidenced in cell growth, and as this is mareIy a genesis ollt of a proteinaceous blastema, we cannot soe why there might not be a similar developement of suline particles when brought within the range of a formative power in full action. By such an extension of this principle, why might we not why that the production of the calcareous particles in the skeleton of the chick, was due to self-multiplication of parent molecules, euch as already exist in both the glaire and the yoke of the egg. This snpposition would refer the origin of thie hard parts of the embryonic bones to the phosphate of lime which is' known to form the residual ash of incinerated albumen. Asan opinion, it is certainly more in keeping with the general operations of which we have more positive assarance, as in the sof parts immediatoly inveiting the akeleton. Dr. D. thinks the chemical view, we before announced, -and which is rendered unnecessary by accepting the preceding postulates-io je supported because "ine'shell becomes thinnós inf




not addled egge that have been sat upon experience an equal loss of shell 1
'The law we have been expatiating upon is different to one for which: it might be mistaken, and which is treated of, by Dr. D. under the name of "plastic power,"-this he defines to be "an innate power which resides in the germ, by the action of which the matters previously stored up in the ased by the parent plant are regrouped and so arranged as to constitute a new organization, but this powar does not extend to the obtaining of new material." Thus very obviously, not baving like the former, a power of creation, or making new materials like jtself, i. e. of the parent perpetuating itself in an offspring. The plastic power is presamed to be in full operation during nutrition, and whoever is couversant with thim funotion as it is known to be instituted, but must assent to the admission of such a force ia living bodies. We there see mattors used as aliment-analagous to the embryouic store-recombined in their integrant atoms-so as to become new substances, and as this reconstruction must go on under a special presidenoy-for it is nut left to chance medley-we may call that controlling agency, their "plastic power." Now, this being conceded, we are at a loss to recoucile these statements with an ussertion of Dr. D's, made under a previous section " digestion is not, therefore, to vitalize the food,"-because in this function the proximate principles of our aliment "are regrouped and so arranged as to constitute a new organization," and that whereas they were formerly lifeless particles, they are afterwards rendered or-ganizable-and as if to yet more strongly declare the " plastic power," by which they were governed, they have received life, they form the blood which is living, they carry life to the tissues which they renovate, and if this is not being "vitalized" we apprehend that there would be great difficulty in determining what it (the food) yet wants to be so circumstanced.

Dr. D. has divided alımentary substances into two great classes, the histogenetic and the calorifacient. Had the latter been called thermogenetic it would have been more euphonious with histogenctic, and then both terms would have been derived from the same language, instead of standing, as in adoption, one from the Greek and the other from the Latin. There is nothing new in this arrangement, it is equivalent to the classes called by Liebig-nitrogenized and non-nitrogenized ; or as Dr. R. 'Thomson changed the expressions, at one time tu. the plastic elements of nutrition, and elements of respiration, and at an: other to the nutritive, and calorifacient. Such a partitioning is unfoundod in nature, as may be demonstrated by a single proof, i. e. albumen.

This aliment, according to the above separation, would be called an. himtogenetic, becanse it is resolved into albuminose, and this is the protinaceous foundation on which the tissues are erected, or rather aut of which they are formed; but the truth is, it is equally a thermogenetif os producer of heat, inasmuch, as caloric is generated during its intromission, and in-dwelling in the system,ns well as during the final transfprmation which it suffers before extrusion, or elimination through the renal emunctories. These changes are so many various combustions during which, it is believed, the albumen may have probably been progressively becoming fibrin, chondrin, and urea. And as such, are proportionately as powerfully calorifucient as any other instance, of warming to be met with in the body. The objection then, is that the originul substance in undergoing histogenesia must necessarily be instrumental to the evolution of heat-for the metamorphoses it sasstains are of the character of those peculiar to the province of calorification itself; and upon this rule every other histogenetic, as fibrin, casein; des., are equally thermogenetic. We have one more exception to take to Dr. D's opinions upon the subject of alimentation. He promulgates the doctrine that histogenetics are digested in the stomach, and therinogenetics in the intestines, and gives it prominence by heading a chapter accordingly. But this is equally improper with the former: The fact is, to some kinds of food, we are unable to say precisely, wheré they are digested, whether in the stomach or duodenum ; while to others there can be no doubt both of these organs are stibservient to their primary assimilation; leaving but few, indeed ifany, which are unilocularly digested. Albumen, which has already been brought forward, may be further particularized here, as showing that the same substance may be digested in two cavities. In the stomach it is converted into a peptone to facilitate the endosmosis of a part, and the remainder is restored tó the original alkuminous condition in the duodenum before absorption by the lacteals. Fibrin, casein, gelatin, gum, and other proximate principles might also be adduced to establish the same fact. Now of oir innability to correctly localize the seat of digestion, we may mention the ligneons, pectinacrons, ucilulous, and other uliments. Dr. D. has followed Lehmann's upinions upou alimentary metamorphoses closely, as our recollection serves to remind us, and as long as he adhered to him fab häs been sustained by a safe guide; but when he has wandered elisewhere he has compromised the veracity of his text. Spbaking of latine, he says, "it always uppears to be derived from albunen.". 'This opinion is certainly not Lehmann's, who is extremely catitious in what he says of the origin of gelatine ; but, we believe, it is the late "bi?

Prout's who conceived that gelatine was imperfect albumen, and colasoquently was susceptible of the adaptations and transformations of the latter substance. But this hypothesis is improbable, for albumen has never yet been converted into gelatine, nor gelatine into albumen. Moreover, the nutritive properties of the two cannot be similar, for while the composition of protinaceous substances is identical with that of the flesh and blood, that of the gelatigenous tissues is not, and hence the difference between the two.

Dr. D. devotes an interesting chapter to the unity of man. He there allades to the resemblances among nations, in the following elequent appeal.
"Stripped of exterior coverings there is in every climate a common body and a common mind. Are not all of us liable to the same diseases 1 Have not all a tendency to exist the same length of time? Is it the temperature of our body, the beat of the pulse, the respiration that we obeorvo-are they not everywhere alike? Or turning to the manifestations of the mind, is there not among all the tribes of our race, a belief in the existence and goodness of God 1 in unseen agenta, intermediate between him and ourselves ? and in a future life? Do we not all puta reliance in the efficacy of prayers? Have we not all the same delights, the sama fears, the same aversions, and do we not resort to the une of fire, domestic animals, and weapous? Do we not all expect that the differences which surround us here, will be balanced hereafler, and that there are rewards and punishments? Is there not a common interpretation of all the vuried furms of funeral ceremonies ? a common sentiment of the sacredness of the tomb ? . . . . It signifies nothing in what particular form our mental conceptions are embodied, it is the conception that concerns us, and not the aspect it has assumed." This reminds us of the declaration of Shylock, from which, probably, the above has been in part borrowed. "Hath not a Jew eyes 1 Hath not a Jew hands, organs, dimensions, senses, aflections, passions, fed with the same food, hurt with the same weapons, subject to the same diceases, healed by the same means, warmed and cooled by the same winter and summer as a Christian is? If you prick us we bleed, if you tiakle us we laugh 1 \&c., de. Act III, Scene I. These resemblances have an important bearing on the question of the unity of man; whith has been genorally received in the affirmative, but of late has been ddnied by the idea of Des. Nott and Gliddon, that there was ab initio, "a maltitude of centren of human origin.". In the work of these getillemen, Professor Agassiz gives "a sketch of the natural praviacess" "㫦 divides the world iato eigi.t natural provinces; to each he has given
tyoures of the head and skull of the variety of man, as existing in that pruvince, lugether with seven or eight animals fuand in the smane province. This is intended "to show that the bounduries within which the difierent uatural combiaations of unimals are known to be circumscribed upun the surface of our curth, cerincide with the natural range ofdistiact types of men." We are happy to tind that Dr. D. does nut concur in this visionury fantasy which, ulas, as we have elsewhere learacd, has atirirded the opportanity to otheis in the same volume of beapnig on the Itoly seriptures and its ministers all manner of derision and cuntempt! Uur spare dors not prermit as to folluw Dr. D. through the many pages in which hes explains the differences in the varivus members of the haman family; but as pertinent to the question we would refor to the fulliwing extracts, we have made from a monugraph by Ur. Bachounn, on this subjert. Alter adducing a large body of ovidence ia: fuver of the unity of man; he conchudes, with among other dednctions, the fultuwing.

- Phiiulugy has shuwn that natious, however, widely separated bear a relatiouship to each other by the construction of langunges, and that thrungh this medium, Lepsius and uthers believe that the dectrine of the unity of the huruan mee will be estubished. Anatomy and physinlogy in the hands of Tiedmann, Owen, \&c., men who laboured for the advancement of truth, has led to the conclusion that all neen were of ono apocies. The facts collected by the individiale sent on the various exploriug expeditions, has been in favor of the unity of the species. Natural history has established many laws which concur in the aame opiaion, such as the fact, that varieties which have once become established, are as permanent, both in form and color as species themseives. Animuls once domesticated, that have been suffered to run wild for generations, jartake of the characteristics of their immediate predecoymors, and never run to the form or color of the origiual apecies. The variaties of meu are placed precisoly in the same category. Biblical history is opposed to the notion that men were created in groupt all over the wurld. This would, we concoive, be requiring unnecemary miruclen from the Creator. To astablish his (Agusaiz) thoory he regairse to show why the Creator, whenever he calls into the world more than one apecies, in a genus of lower animale, gave them the characterinbicu of species; but wher He created man, be created him of the nase epecies all oves the werld."
Ia coonelunion, we worid remark liet Draper on phyviology has haen imued from the proes with ranok typographical beauty, and that the ititmantions, many of mhich ase mew, are ramarkably woll cimoceted.

XXJX.-An Introduction ta Prastical Chemidtry including Apalysis, by John E. Bowman, F.C.S., Professor of Practical Chemistry, in King's College, London ; author of a hand-book of Me dical Chemistry. Second American from the secoud, and revist d London Edition. Phuladelphia, Blanchard, LLea; Montreal, B. Dawson.
This little book aims at being a simple and familiax instruction in the manipulations and investigations of Analytical Chemistry. It suppliea to the Medical Student a proportionate volumo on kindred subjects, to that which his teacher possesses in the more elaborate wurks of Rose, Freser::-:s, and others. This, we belicve, will be admitted to be the filling up of a want which had hitherto been experienced. To all who desire to practice the experiments of the chemist, pharmacologist or toxicologist, we would recommend it to them. For a few shillings it may be purchased.
XXX.-Essays on the Physiology of the nersous system, with an appendix on Hydrophobia, by Benj. Haskell, M.D., of Rockport, Mass. Gloncester, John S. E. Rogers. From the anthor.
These essays with which we have beon recently favored, are upon subjects that must awakeu the interest of every reader. They would also seem to be opportunc nt a perioul like the present, when public attention'has been much arrested to their subjects, by various valuable papers from M. Hall, M.D., E. lrown Sequard and others. Their considedation can, we believe, naver grow old; wh what leet ween undoing riduldsooveries, ase they are skgled, mind reviving old opinions, as is the sfifit of the 'age we now dive 'in; the ball af intellect is likely to be kent


## CLINICAL LECTURE.

## (From Medical Circular.)

LOn manicose veine: and, thenr treaftremt, and some diseases of Eoń6!' By , IR cin Homita
GRNTLEMinsy Profeasion, I take it those are the most interesting which are the mort
common. It is not a question whether a disease is aristocratic or democratic, but it is a question as to the frequency of its uccurrence. The diseases of the venous system are a common class in the luwer orders and in the lower extremities. This condition, known as varicose yeins, arises from a want of power from the centre of the circulation. We all know the circulation is carried on mainly by the heart ; it is propelled by the ventricle, and returns by the capillaries, by the vis a tergo. We also know that the venous system is much larger than the arterial, and so is the rapidity of the circulation slower through the venous system. In the frog yon see the velocity of the arterial as contrasted with the slowness of the venous system. It is this condition of the venous system that leads to morbid changes. Teins going towards the heart become large, swollen, and contracted in form. Fins which, when favourably pursuing their course are of a length of six inches, have become contorted till they have become ten incheslong. We have a mass of veins occurring in a given region in the lower extremithes, twelve or eighteen inches in length, and increased in size as well as length. This condition, called varicose, is mure especially common in the lower extremities ; it is also met with in the upper, extremities. A young man I knew had a varicose condition of all the veins of his body, and of the upper and lower limbs as well. I do not know what has come of him.

The evils attendant upon this condition of veins are considerable; in the first place they are very painful-they are almust incomputible with the ordinary conditions of the budy. We have red patches on the skin, indicating a low state of the blood, becoming organised, and remaining permanent for years. This disease must have a cause ; it is a want of vigour m the arterial system at large; you never see a man with varicose vems withunt a weals pulse. If you have a radical eyilike this the symptums uecur frum a wak cundition of the neart. The first step to:wards a cure is to know its nature. I wish to draw your attention to the means of mitigating the evil lecally, whether it may be universal or confined to one or two extremities. The treatment must be of a form which shall geve tone and strengti to the circalation. In the cundition of the limb which jua sce frequentiy in war hospital partice, it is confined to the ramifications of the internal vena saphena ; however extraordinary it may be it does not, as a common rule, extend above the knee. There is a freedom of the circulation above the knec, but aboyc that agan the corculation is interrupted, and you will fud a large mass of veins-I suppose a continuation of the vena saphena-each of these as large as one's finger. A patient in the hospital was in this condition, and the evil was so great as to prevent him pursuing his ordinary avocations. This man came into hospital now four months ago, with enlargud veius and considerable pain below the linee; he was a gás worker, and could not attend to his work. He also exhibited above the knee one of these enlarged masses of veins whioh I have just described. I remember 30 years ago the treutment of varicose veins was rife in this town ; they were tied with ligatures, divided, pressed, \&ce, but I know that the result of these experiments was invariably fatal from tho
vinlence done to the veias from within. These experimente wers abundant.

Up to fifteen years ago no progresa was made towarde a cure. I recaived frum sume gentemen a stutement about treatment with Vienna pistr-two pirts of potassa fusa and three of quicklime made into praste with spirits of wine. The mude of applicatiou is this:-the veins, the suhject of experiment, are insulated by phiaster,-a hole being cut in aix thicknesses of plaister and find over the vein you wish to dostroy; you may apply this to as many surfaces as you like, ull the worst pointa in fact. I huve done this experiment in fify, sixty, or seventy persons, and in the most of these heluw the knee and ankle. The merit of this paste is that it acts better thun potassia fus:a alone. If applied over the salient parts of the veins and removed in ten or twenty minutes, and carefully sponged awuy, you will find an eschar, altended by a rapid deposit of lymph around the vein, it consolidates the blood within the vein, which bicomes blucked up. You will have some erythema, which remains two or three days und then disupprines.

When I first used this I made the hults large, but I found by experience the smaller the holes were the hetter, as the cure was not so protracted. I think you might apply the puste over a surface not larger thun a quarter or one-fifth of an inch to accomplish the destruction of a vein, which is ull you want.

It will be nuturally nsked, have you ever seen any bad consequencea from this? I reply, never; I have done it ois rich utd poor, gentle and simple, on a Governor of this hospital among others, and ou all with the mast perfect success.

We are all the victims of our early prejudices; the antidote to this evil is the cultivation of one's own independence of mind, and not to yield to authority unless backed by reason. I was told 1 should kill the people, that persons would have an uttack of phlebitis, \&ec., but lately I have shrank from applying the Viema puste ubove the thigh. I have done it in two or three cases, bint I now wonld hesitate to duso. The man I spoke of was peculiarly fitted for this treat uent. He weat out and told me he was weit beluw the knee but suffered dreadfully above the Enee. I applied four large eschars midway between the knee and groin. What followed ? A large blush of erythema, extending one-third of the Front of the thigh, the mass of veins was consolidated and hard from offtused lymph; the day after the inflammatioe had gume, and now thare th not a veatige of vein left. In another case I did it with the same reault, 'the very shadow of the case I have just related. Therefore I soo no reacoll why this condition should not be treated this way. I have thevar failed to spply the remedy, however latge the veins, whether thoove or below the free: Conjointly with this ireatment is the neces-- fity of anch furoe being given to the circulation as to prevent that peculiar coondition of the venous syatem which leads to thim condition.
[Mir 8key here ahowed soveral specimene in illumatration of this oxcaflent plan of treatment.]
 the man gol aured. In oue ame only did I mee ibe divenge return. The
nther day a patient showed himeolf, upon whom I had oporated many yedrs ago, now perfeotly cured. My experience of sixty or seventy cape leads me to suy it is perfectly safe treatment.

Now I want to bring before your notice some diseases of bone. A littlo boy was brought into hospital, three months ago, aged twolve years whuso left leg, from the knee to the ankle, was large and swoilon The stntement he made was that ho began to feel prain two yeara and a hulf ago in the leg. There was now no prin to sprak of. He was put on hospital diet, and I gave iodide of potussium in large doses whth bart, when I say large. doses I mean tho medicine is of nouse without it js given in largo doses. I will enre with ten grains what you cannot with five.

I was in the habit of ordering the iodide of potassium in the dose of five grains three times a-day. A gantleman wrote up to me frum a tuwn in Essex, stating his cuso. I said in reply, take ten grains of this medicine, and if notirelieved take fifteen, and so on. He called upon me some years afterwards, and said he was very thankful fur what I had done. He told me he had luad in early life some venerealuffection, which passed into his bones. He trok iodido of potassiam for some time in vain, but that when he took it as I had desired, he declared he bad got quite well; he had taken it up to drachm doses.

From that time I hegan to give it in ten-grain doses. I gave the boy five grins without the least benefit, but whether it was the hospital diet, or bark, or iodide of potassium, I know not, an abscess appeared over the tibin, with an opening into the bone. The operation was done of breaking up the tiba above and below this, and all is now healing up. as to the result,--the peculiar feature is, you may have inflommation attacking the interior of a boue, that shall go on to the destruction of the bone without an external sign-so far except the outline of the bone. It is quite clear bone cannot live without healthy texture around it, it tequires nourishment from its periosteum; if you cut off its vessels the periostenm will die-bone requires sufficient nourshment. I want to bring before you the cases in which the bone dies either from without or within. In the case I have mentioned, had the boy remained in his own residence, his case might have gone ou for years. Now as the hole in that bone furmed during the treatment, he will do well. There is no reason to suppose the bone will not re-furm. The other case is Where the boue becomes diseused from without; also in a boy aged fiften, with an abscess of the left leg, in hospital two munths ill only five days. Before admission he had twenty-five and fifteen leeches applied, total forty leeches. It (the leg) was enormously swelled on admission, and two pints of matter evacuated, which you will not be surprised at-forty leeches to a boy of fifeen! The bone was found bare, as matter had furred under the neriosteum. The boy was fed up, I got the blood back he' nad lost, and he improved in health, but the bunc was exposed three weeks, two inches below the tuberosity of the tibia and three inghes above the ankle, of a white oolour. Now I think I can compel the syptem to form granulations, and here a crop of immense granulations have
formed at the edges of the wound which have almost covered tho bone.
The question is, can healthy granulations take up dead bone? I never saw it. What well they do with this bone? I do fear you will have a large exfoliation, and the granulations absorbed; they are out of place, an error loci they have no business there. We will, however, watch the result of this case, but I think there will be a large exfoliation soone: or later.

## THERAPEUTICAL RECORD.

## (British and Foreign Medico Chirurgical Revrew.)

Ferrocyanid Potassium and Urea.-This compound has been proposed as a sulatitute for quinine, in the treatment of some periodical diseases. It is considered applicable to those fevers, neuralgia, sc., in which the intermittence is idiopathic, and not the result of marsh miasm. Its bitterness requires that ii should be given in pills. Ten to fifteen pills of fifteen centigrammes have been given in the course of the day.

Hamorrhoids.-In some cases recently treated the actual cautery has seemed to possess advartages over the ligature and excision. It is often followed by vesical tenesmus and sometimes of retention of urine. These cffccts are relnevable by a tepid buth. Contraction of the rectum has never resulted from the operation.

Hamoptysis.-M. Aran recommends the application of ligatures to the limbs and ice to the chest as means of arresting the bleeding temporarily, of internal remedies which should succeed a combinatiou of nitre and of digitalis as the most powerful sedative to the circulatory system.

ChronicCatarrh.-The iwhalation of the vapur of sal ammoniac bas been used. Employed two or three times a day, it hascured obstinate cases in a lew days, and has on no occasion turned out useless. The salt may bs volatitized in a small crucible, heated by a spirit lamp. The patient sitting before it, inhales the fumes and the uir of the upartment becomes impregisted. The vapor is also recommended in syndesmitis and strumons oph thalmia.
Paraplegia-Dr.II. Bennett has given phosphuretted oil (gr.iv. of phosphorus to $\overline{3}$ i of olive oil) in cases depending upon diseases of the spinal cord, without improvement resulting in any one of them.
Pericarditis zoith Effusion,-M. Aran bas related a case which demonstrates that the pericardium may be injected with iodine for the cure of effusions as well as other closed sacs. The injection nonsisted of 50 grammes of water, 15 grammes of tinct iodine, and 1 gramme of iodid potass. It produced no pain, and a few grammes were allowed to run out before the wound was closed. Re -accumulation coming on, a second operation was performed. In the end recovery ensued.

Photophobia.-M. Van Molsbeck recommends as completely succeeseful the external application of tinct of iodine, especially in that form which accompanies strumous ophthalmia and chronic granular conjunctivitis. He paints the orbicular and superciliary regions ance or twice a day, according to the severity of the case. A single application usually suffices to remove the symptoms in 24 hours.

Rheumutism.-Dr. Alies relates several cases of rheumatic affoctions iu which he has rapidly effected a cure by the use of veratine, in doees of 5 milligrammes, every 5 or 6 hours.

## The Yeterical Chronide.

HCEF OMNIBUS, LICET NOBIS DIGNITATEM ARTIS MEDICE TUERI.

## THE LATE CASE OF POISONING BY CROTON OIL.

Th.e extreme, and, in our vicw, unjust severity of the sentence passed on Gallagher, lately tried before the Court of Queen's Bench, for a socalled attempt at poisoning with croton oil, entitles the case to a short notice at our hands. Michael Gallagher, say the reports in the public press, a private of tho 39th Regiment was indicted for having, on the 2nd September last, feloniously caused to be taken, by one Margarét Curran, a drachm of croton cil, with intent to murder her. The prisoner pleaded not guilty. From the evidence taken, it would appear that Gallagher, whle a sertant with Captain Benson, became enamoured of one Margaret Curran, a Cllow-servant, and, as she expressed it, "was very oflen handug, ius lar aboat love matters." The tender feeling not beag ruciprucatud by inargerct, in consequence of her affections having been alrealy eng geal $\cdot$ by a young man who was gone to Toronto," Gallagher, as a matter of course, became the subject of all those soul-harrowinms so pathetically described by poets as peculiar to the experiences of rej cted sutors. He now told her, as hundreds of other luve-suck swaius have told their bard-hearted dulcineas before, that he "wonld hang for her, ruther than that any one clse should have her." He said this but once, and they remained on friendly terms until he left the situation, on or about the 2nd September. Shortly' after leaving the place he met her, and promised to send her a bottle of beor. True to his promise, the beer was sent on thè èvening of thé came dáy. by means of a little girl named Ellen Fitzgerald. Ont of this bottle Margaret Curran drank a cup full, her fellow-servant, Ellèn Highief;
taking at the game timen oup half full. The lattor saya :-drif felt my mouth burning iminediately after, and said to Marguret it was nasty atuff; I then went to the cupboard and took some sugar, for the ataff burned me; I then ran up stairs, and threw the stuff off and came down again, when Marguret lucked very pule. I usked her what was the mutter with her; she said she was very ill. I then retched again; Margaret asked if she would tell the Mistreas; 1 suid no, I shall soan get better; I felt a sensution as if $I$ were going to die."
Dr. Woodman, Surgeon of he 39th Regt., was in immediate attendanoo, and having administered to each a mustard emetic, butter, and arrow-roct and water, they were in a short time relieved from all their urgent symptoms. "I was shewu a botlle," he says, "und found it obout half full of becr: 1 found some oil; this oul I afterwards found to Ee croton oll ; I took the bottle away and had it examined by Mr. Hunt. I would swear that the oil which I obtained from the leer was croton oil."

Judge Aylwin, in summing up, told the jururs, umong other thinge, that, "with reference to the crime of poisoning, there was this to distinguish it from other modes of producing death, that the act could never be explained consistently with innocent intentions. A man might flourish a stick, or fire a gun without intending to cause death; but he who used poison must do so knowing well that it was dangerous to life, if administered in sufficicut quantities. IIe mentoned this, because besides the two facts that the poison had been taken by the decensed, and administered by the prisoner, there remained this third point to be made out in order to establish the crime-that the poison was administered with intent to murder. When the law said that the intent characterized the act, jurors were not catled on by that to dive into men's thoughts, and say that a prisoner's thought was to commit murder. That was impossible. The jrry must judge that the man intended that which was the necessary cunsequences of his act ; and here there could be no doubt on that score, for on account of the reason alrcady given, the administration of poison necessarily indicated the intent to kill. But for the speedy intervention of the surgeon, judging from the nataral effects of the oil, death must have dollowed."

While we admit all that the learned Judge has laid down in the premises concerning the crime of poisoning, and the duty of jurors in determining the intent of a prisoner, "by judging that the man intended, that which was the necessary consequences of his act," we decidedly differ from him, that there could be no doubt on that score in this case. In our opinion, two very important questions which were not touched
on by the defence, and which his Honor took for granted, remains to he proved, befure we can. with common justice, say thut Gallagher, in administering eroton oil to the girls, intended to coramit the crime of homicide. 1st. Is croton oil a poison, and if so, in what dose? 2 nd . Is croton oil pepularly known and regarded as a poison? That buth the seeds and oil expressed from the seeds of the croton tiglium are poisonous in large doses, is admited by all toxicologists; but this opinion would appear to have been formed, rather fiom the energetic effects of amall doses, than from any direct evilence as to the fatal effects of large ones. And that liis is not always a safu criterion, is aufficiently evidenced by the action of other mediciues-turtur emetic, for example, which in doses of one or two grains produces nausea, vomiting, and purging; but may be given to the extent of several drachms during twenty-four hours wilhout producing injurious consequences. Two cases, in which large doses of crotun oil have been taken, are on record. One is to be fuund in nearly every recent work on materia medica and Medical Jurisprudence. It is as fullows: a young man, Living in Paris, aged $2 \overline{5}$, affected with severe typhaid ferer swallewed by mistake two and a half drachms of cruton oil, und death ensued, as a consequence, four hours after the uil had been taken. What was exceedingly singular no lesion was fuund in the gastric membrane, and tue intestines presented merely the ulcerations which are characteristic of typhoid fever. Taking into consideration the debilitated condition of a person suffering from typhoid fever, it is not to be surprised that the oil cansed death. This result would have been equally produced by the depressing effects of any other powerful cathartic. The second ease has been placed on record by Dr. Cuwau,and was uot fatal. A teaspoonful was administered by mistake to a child four yeurs old, who had previously eaten a heurty meal of bread and milk. In five minutes the child was seized with violent vomiling and purging, soon followed by alarming prostration. Under the use of warm fomentations, and free libations of milk and mucilage the child was convalescent in two days. Dr. Cowan has known similar symptoms follow the administration of half $a$ drop to un adult. Here, then, an entire drachm was swallowed by a child in perfect health, and yet death did not result. Who then can state positively that croton oil is a fatal puison in drachm doses? the very quantity put by Gallagher in the bottle of beer. Add to this, that all writers admit its effects to be very variable; some persons taking as many as ten drops, without having the bowels atfected in the slightest degree, and who will not agree that the prisoner ought to have had the benefit of the very evident doubt that exists as to croton oil being
poisonons, even in doses as lurge as a drachm. The language of Judge Aylwin, that death must have resulted, judging from the natural eflects of the oil, but fur the intervention of the surgean, is, in the present state of our knowledge regarding its physiological action, altogether too decided, if not quite unwarranted.

We come now to the second question, which is by far the more important one of the two, inasmuch as its solution tends either to fix the guilt of the prisoner or free him from the impuration of homicidal intention. For, if croton oil be propularly known and looked upon as a poison, then the conclusions which his Honor arrives at, on the assumption that such is the fact, are perfectly justifiable; but, if the contrary be true, and the assumption is erroneous, then are his conclusions completely invalidated. It is, we think, sufficiently obvious, that Gallagher cannot be treated as a man who has studied and made himself familiar with the operation of poisons and medicinal substances, but as one of the general population, who ontertains, in common with his fellows, certain determinate notions regarding the effects of these substances, und when he employs them, does so in consonance with these idens. Now, although it is extremely difficult for the scientific man to give a definite opinion of what a poison really is, to tho popular mind nothing is easier. "A poison is sumething that kills"-something that has a property sui generis inimical to life. Such is the notion of tha mass. They know comparatively little of the distinctions to be drawn bitween one poison and another, or the degrees of action of the same poison. The irritant, narcotic, and narcotico-irritant, are one and the same t, them; they are poisons, therefore they destroy life. The same simple notions are held by the vulgar regarding other medicinal sulstances. A purga ive is a substance which, when taken, produces purging; an emetic causes vomiting, and so on; and one would scarcely be credited if he said that any substance, known as a murgative or emetic was a poison. Ask any one of this class what opium, arsenic, Prussic acid, or strychnia are, and he will mmediately answer-" Poisons." Ask him what jalap or alves are, and he will say as promptly-" purges." Tell fin, if you wish to excite his risibility, that jalap is a poison; and yet a greater number of cases of prisoning have uecurred from the exhaustion produced by the excessive purgative astion of s.loes und jalap than has ever occurred from that of croton oil. The great question is, then,-what is the popular iden of croton oil? The only way to arrive at a positively correct answer would be tu propose the question to some thousands of the community indiscriminately; and, were this done, we are certain that not one who has heard of the medicine, independently of
this trial, but would answer,-that it was a " purge." Gallagher, therefore, if what we have laid down be correct, considered croton oil not ar a poison but as a purgative, and in consonance with this idea, mixed it with the beer administared to Margarat Curran, for the purpose of giving her a thorough purging, and nothing more; "intending," in juridical phraseology, "that which was the necessary consequences of his act." A singular way certainly to be revenged on a female for not returning his affection, but one which would be apt to present itself to the mind of a course uneducated person; as such tricks are very cominon among his class; the purgative substance heretofore being, however, jalap instead of croton oil.

We were anxious to say more on this subject but a message from the printers says-" no more copy wanted." We will theretore give, if we think it worth while, some further remarks on the subject in our next number.
That Gallagher is deserving of severe punishment for his act, we freely admit, but that he sbowld be conderned to death, or probably spend the remaiuder of has life in penitentiary, is, we consider, exceedingly cruel treatment.

## ECTROTIC 'TREAT'MENT' OF SMALL POX.

In our last number we published an articie from the pen of Dr. Von lffland, in which he recommends in the highest terms, a sulution of aitrate of silver, of one drachm to the ounce of water, as an ectrotic remedy in this truly loathsome disc se. The Dr. lays no claim to originality in the treatment, but states inat he w.is induced to try it on the suggestion of Dr. Doughs, "to wi...m. it woull appear, it had also been suggested." Now, as wohling de ghlits us muru than to give honor to whom honor is due we are happy in lemg able to inform our readers, and -we know the information wit please our friend Dr. Vcn lfland, that the uriginal suggester is Dr. Liowand of Quebec, who is sulely entitled to the credit of having initiated an abortive treatment of small pox, which, from all accounts, is fur superior to that of the application of tincture of iodine. fa our next number an article will appear from Dr. Rowand, establishing his claim to the origmation of this treatment, with details of cases treated, the local and general effects of the remedy, and such other information regarding it as he may think interesting to the profession.

## LONDON CORRESPONDENCE.-No. T.

## Lundon, Sept. 17, 1856.

Knowing very well how much the government of the profession in this eonntry intereats that bolly in the Canadas, I havo been vainly waiting for some satisfactory intelligence to communicate on the subject of Medical Reform, nad delayed wrining from timo to time in consequence. Matiers are still in stutu quo. and the medical privileges of the A rchbishop of C'anterbury rest undisturhed. Ho, e, however, is strong, and thousumets of intelligent meh, whose organ of hipefulacse is large, are hoping that at last something is to be done. Uutil that time arrives I shail keep silent about Reform.

London is very quiet at this moment ; it is the dull season of the ye:ar ; perybody who can muster the means has gune unt ol town; those viho cannot, hide themsclves, and are presmmed to he out of tuwn. Nothing is to be seen, therefure, at any of the hespitals, worth speuking of, durion the latter prest of August, and all September. Now that the war is temporarily over, the demand tor surgeons has ceased, and the hospitals do not expect more than an average number of pupils this coming session. I use the word temperarily, because very litle diserimination and prophetic foresight is recessary to see thut two yeurs will scurcely chapsolbefore the whole continent of Eurupe will burst out into a bluze, and to expect this country to remain neuter will be out of the question. Let this ye a hinl in time to some of the Canadian Students, who may wish to distinguish themselves, and obtain a reward, in the shape of one or moro medals or crosses. It is rumoured that the Governmer ! intends to establish a great Central Military Haspital in London to replace that at Chatham, which is to be broken up. All. the invalids who arrive ut Portsmouth or some other seaport, from fureign stations, have to come up to Loudon before they go down to Furt Patt, and as this is productive of great inconvenience, an effort will be made to adopt a new system. by adding another to tho many great hospitals already existing in this metropolis.

Feeling, in commun with so many of my confreres, the incessant wear and tear of mind und body. I am at present luxuriating at Shogburyness (altheurh iny letter is dater from London), through the kindness of a militury friend, who has given me a share of his quarters and a seat at the Mess. 'This is.the only station in England at which the Artillery are tanght practicnl gatunery, and it is here that all the novelties in this particuiar branch of the sarvice are tred before adoption and approval. Hursfalls monster wrought iron gun-a real great big gun that would hold a dozen children-hos been already tried aud approved of; a description and sketch of it appeared ia the lllustrated News of the 6 th inst., it propels a shot weighing 336 pounds an immense diatance. There is a cranon I have just seen fired several tiracs, at intefvals of 10 minutes, with 12 shot each time, which was sent over by some Americun who deciared it could not be burst. An effort is made to nccomplish this duily, and severnl little fissures, perceptible only with a glass, were pointed out to me yesterday, but the metal is so tough and unyielding, that it will be some time belore its destruction can be aq-
complished. Not unfraquently, vory nerious accidents occur from theqo
 ly if bursting premururely. A lurge nitle mortur with a spiral trere, has been recumily Iricul, it pripels a cunloal shell weighing 270 puinds, with apiral riilg is tu corris, wind tor lie grouvis of the raortar. When fired, the shell several tiurs has harst line mument it escuped at the muzele. The grin, herelori, is a cumblethe halipr:.

Shueldaryuews belure ilter war wis always an insignificant station, but

 here will br inereased. I lim commindint, Colunel Michell, I have no dunb, will be rarolected liy a areat man Canádun friends, as lie was muny yours stationed in Cinmadn. I ant ut this mosuent looking oun
 seen in the ulting; liniknis sumtherly me lsla of sheffey cun be distinctly seen, and towiurdy the western end, sheerness. 'The Isle of s!efliey, it is my intrition to spu-nil u litle thine at, on anather occasion. where I hope to guther a lirin numbere of the dondun clay fussils. One's appetite gets stusibly sharpuried liy the sea uir, and the chunge froin the atmanpliuere of Lundun to tho seu coust, is p.articularly invigurating aud refresining.

It 1 s imen a pource of pleavaro to me, on many previous occosions,
 able lusk it is ugun my prosince io perlorm. 1 feed sure it will gratify the numerons friends al Dr. Vun Iffiud of Quebec, to learo thit be Was pleated a corranpending nember of the Epidamiolugital Suarety of
 been lally recngnised hy thut intliontiat body, which uumbers sume of ihe firat in the lund arnulig its numbers, and we inuy look for sommunicutions frum his able $j^{\mu n,}$, whulh, I huve nu doabl, will appear ia the Transuctions of the Sustety. Sjeruking of the 'Iransactions, I will mention, en puasant, that the forthouining volume of the Pathological 8oaioty is expercted to outdouny of ats predecessors, and will contain a large munin-r uf originul resenrehes and a great many drawings, culored and plain. Contsusting this vulame which is issued to Follows for an annual subecription of a guinea, with the one emanating from the Mediou Chipsrgical socisty fur a subsertption of three guinese gapually, the cumparison is yery much in lavor of the furmer ${ }^{\text {a }}$ Thin is a rampa why the numier of folluwe of the Pathulogical is 80 large, and this onables the suoviety to pulilish suth exotlleat volumes.

The chapter of aceidents thes year in London, appears to beat hollow, anytiliug of the kind that has been known for many yeare past, and in griat anany sid wearrances are due andely to caralessues. To bive but asingle terrible example- pour carinan, the other dey wat iboust tu foid a van with haga of sugarat the st. Kuitherinera Duets. His Velisise was plused under one of the loop-liolea iu front of the buildiug to feteive the sugar, eacle lag ol which weigheal 3 awt. Tmo of the bags were aunfarisiot; nud while in the act of tumering them, the. tupe

upon the poor man, and crushed him in a moss shocking manner. The abdominal and thoracic viscera were completely forced out, the heart lying exposed on the outer surfuce of the abdomen. Yet, in this conditicy. when the poor fellow was extricated he uttered, the words "good bye," and immediaiely expired. Horrible mutilations are quite common on railways, but a form of accident like this, forcing out the viscera, we do not hear of every day, and produces quite a sensation.

Tbere have been several alterations in the staff of the Hospitals, within the past two months, butus these are generally given in the Medical Iournals, I 'hall not recupitulate them.

## HOSPI'TAL REPORTS.

## MONTREAL GENERAL HOSPI'IAL.

(Reported by Mr. R. Anderson.)
Peter Summer, middle age, admitted on the 27th July, 1856, empyema of the left side; under Dr. Reddy, subsequently under Dr. Wright.
When admitted a splashing sound was distinctly heard on succussion; left side enlarged aud dull on percussion; obscure breathing as high as the second rib; and a deficiency of expansilo movenent. The disease seemed to have originated an attack of pleuro-pneumonin, which he experienced two years befurc ; since then he felt a peenliar sensation of weight and uueasiness in that side. On the 4th of July he first began to be aware of this collection in the chest; and had often heard the splushing, before making application for admission to the hospital. He was subject to paroxysms of coughing; with profuse expectoration, which occurred about once a week. On the 15th of August the chest was measured by Dr . Wright, and it was found that the afected side was nearly an inch greater in circumberence than the opposite.
Under a mixture of Donovan's solution and iodide of potassium, the cough became less troublesome, and expecturation diminished. Aegophony was now heard. Pulse 95 . Se conplained of groyy pain ; some: times in the side, at others in the lumbar region, increased an pressure, The expanstle movement of the chest becanie more narked, and respiration more distinct. and almost normal over a larger extent of sufface, (all round the nipple); and he began to get mure rest tt night.
This continued up to the 27th, when he complainetl of an attack of indigestion, with great abdominal measiness, which was attributed if the effeets of the medicine.. Under the fullowing draught he completeIf recovered from these symptums. B tr. senmae, $\overline{3}$ ss, spt. amanonisp arom, Ar, hyoscy. an 3j. ft. haust, ..

- On the 30th we again tried; succussion, but no sound could be hearde lolle side had inereased in size half an inch, with cedema, of the integ ment over the left mamma. A drachm of the following linamentipat nubbedkin four times a day.


lect．Used to get out oi bed and ramble aboat，complaining of great hunger．Soine little effusion into the peritoneal cavity was zow per－ ceived，with diuresis；water limpid，pale yellow colour．His mixture Was omitted and the following given：

B pot．acet，sol．murphiu aa 3 ij ．，liq．am．acet．an，apt．junip．co： $\mathbf{j} \mathrm{ij}$ ．M．ft．mist． 3 i ．，four limes a day．

He now began to perspire proiusely．
On the 5th of Septermber we again measured the chest，and found no inarease in size．Great protrusion of the mamma．Dullness on percus－ sion．Respiration heard only as low as the second rib，inaudible at the fourth．He complained of some dyspeptic symptoms which were soon relieved by a slight aperient；and us he was becoming very much emaciated and weak，he was ordered a nourishing diet，and 6 oz．of wine daily．

On the 1 Ith the side had increased another hulf insh．There was great displacement of tho heart ；the impulse being feliat the right side of right mammary region．He now began to be more oppressed in breath－ ing．Always lay on the affected side．A blister wasapplied to the side， and afterwards dressed with strong mercurial ointment，which relieved him．

On the 10 th he was in a state of dementia．Had lost his appetite． Chest inorsased another half inch，and a tonic mixture was piescribed．

R quinco sulph．ヨj．，spt．ætheris sulph．co． 3 vi，ncidi sulph．arom． 3 ij． tr．cascarilla $\mathcal{Z}_{j} \mathrm{j}$ ，aquæ $\bar{\xi} \mathrm{vj}$ ．，M．f．mist．cap． $\mathrm{Z}_{\mathrm{ss}}$ ，four times a day．

On the 18 th Dr．Wright performed paracentesis thoracis，and $5 \frac{1}{2}$ pints of pas were withdrawn ；after which he felt lighter ；but his breathing was very litt！e relieved．Shooting pains were felt in the side resembling those of his first attack The pulse，which had steadily increased，was， before the operation 128，now fell to 65 ，aud he oomplaised of great weakness．Calomel and opitum were now presoribed，and contioned a few days：On the 23d the expectoration had increased．I＇he affected side now measured two inches less than before the operation，but still un inch more than the sound side．Blept little and＇restless，with constaut moaning in his sleep．Diarrhcu now came on，and gr．ss of opium was administered thred times a day．Two or three disyafter the operation，said he felt stronger，but he soon began to sink．The opium and wine were in－ crensed，and opiate injections wero administered four times a day．The pulse－igain increased in frequency since the operation ；and on the $29{ }^{2} \mathrm{~m}$ was 100 ，hut weak and irregular．He continued tamoan in hig sle日p， and＂cotmplained of a pain in his bowele．Was very low and emaciátëd， and partly unconscious．Ite died en the night of the 29th．

At the post mortem examination，the thotax contaiced $1 \frac{1}{}$ gallons，of pus．The lung was bouncl down to thespinal column by a thicri，depise， pecreting，false＇memb角re，which lined the：whole of the cavity－The intercostat＂muscles of the fifth，si th，savanth，quid qighth，ribi were completely disurganiedar perforatedzand haugidgin shreder，The，Fith hadytitothed between the ribs and peqtoral mpecles；and op pagyife the body flowedr out of the mouth and，noveti：

Wm．Compsty，a hailor，was admitted intod the Mentreath Gedigal

Hoepitgl, July 23d, 1856, suffering from phymosis and several warty exurescuaces on the glans penis. There was conside ralle thickuning of hypertrophy of the prepuce. The ordinary meusurus were tricd, to remove these syniptons, but with little or nu success. It was finally determined that an operation oí circumsision, was requsite, which took place on Alig. - being perfurmed by Dr. Wright. Atter excision of a fing of preputial skie and mucous menibrane, a greut number of vege talious were nuticed around the coroua glandis, and on the asde of the skin of the penis, near the cut surlice, presenting a caulitlower appearance. They were so numerous and clusely packed lugether, that it was not dermed udvisable to extend the operation liy firmeeeding to their entire extirpation.

A few days ufterwards it oceurred to Dr. W. to try the eflect of a new plan ho had devised fur treating warts, and which, upon being prictised, proved emmently successful. Accordingly, several of the more isolared warts were selected; a threanl saturated with lquetied chlurid zino was passed by a noedte through the bisis of each, in two or three cifferentidirections, and made tu cruss each other diagomilly ; these were then alluwed to reman at rest, undisturbed fur two or three days; is the meanwhile the warts grew dry and dark, at the end of that time the threads were pulled out, ard shortly ufterwards the warts tumbled off, leaving a clenu healed sיrface undernenth. The same method was tried in anuther case, a lurge wart on the hand, and found equally effactive.

In the above case the remaining warts being so clusely aggregated, the above method could not be upplied, they were treated with creumote, nuder which application they beoume alsurived.

| Eirfun of Sick in the Marine and Emigrant Hospital, Quebec, from the 4th September, to the 1st Octuber, 1906. |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Women. | Children. | Total. |
|  | 10 | 0 | 51, |
|  | 10 | 0 | 84 |
| 115 |  |  |  |
|  |  |  |  |
| Diveharged, 66 <br> Pied, 0 <br> Remaining, $\$ 9$ | 7 | 0 | 73 |
|  | 0 | 0 |  |
|  | 13 | 0 | 68 |
| 115 | 20 | 0 | 185 |
| Tover, of Lunge, ${ }^{9}$ | Abecesa, | Elemiplegia, |  |
|  | Ulcers, | 3 Myeli | aryelitis, |
|  | Wounds, | 2 Phym |  |
| Do. of bowela. 2 | Cuntusiona, | Etyajpolas, |  |
| Pheutmatiers, 8 | Praguanoy, | Sinbluxativ, |  |
| Dymentery $\quad 3$ | Lapua, | Feb. Intermitionem |  |
| Diseaver of Slain, 1 | Abowsus, |  |  |
| Inflary, of testiole. 8 | Cancer, Mamme. | Ejpilepoin |  |
| 1.3yphilie, | Oppithaluain, | Deutatios, |  |

