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Vol. I.]

LONDON, JANUARY 21, 1843. [1842-3.

COURSE OF LECTURES ON DISEASES OF THE SKIN;

THEIR HISTORY, PATHOLOGY, AND TREATMENT. Delivered in the Middlesex Hospital, during the Summer Session, 1842.

BY ERASMUS WILSON, Esq.,

Consulting Surgeon to the Saint Paneras Infirmary; Lecturer on Anatomy and Physiology in the Middlesex Hospital School.

LECTURE XII.

The eruptive period of small pox is attended by a complete remission of the symptoms of the primary fever. As in measles and scar- described, are taking place on the mucous ties, pervading the entire surface of the body in twenty-four hours. The first traces of the eruption are seen on the lips and forehead.

The eruption appears primarily in the form of red puncta, which are granular to the touch, and disseminated more or less abundantly ac- frequently run together and the epithelium becording to the nature of the attack. When comes separated from the membrane beneath the small pox is of the discreet kind, the puncta in patches of considerable extent. When the are separated by spaces of unaffected skin; epithelium is rubbed off a false membrane is when coherent, they are distributed in patches, found to occupy its place. In the mouth and as in measles, and give rise to the appearance termed corymbose; and when confluent, the to the formation of pustules; but in the traskin is uniformly reddened by their close ap chea, which is protected from disturbance by proximation. In the course of a few hours the contact with foreign substances, the latter red points rise above the level of the skin, are change is occasionally observed. These morhard and papular to the touch, and each sur- bid actions in the mucous membrane are necesrounded by an arcola of corresponding magni-sarily attended with distress to the patient; the tude with temselves This latter appearance has throat feels sore, is tender to the touch; degained for them a comparison with the small spot which follows the bite of a flea; but the the voice is weak and hoarse, and there is not comparison is bad, because the former is a ca- unfrequently a hard, dry, and troublesome pillary congestion, and the latter merely an cough. ecchymosis. On the second day of eruption, the papulæ or vari have a conical form, with ing of the vesicles is attended by a median are less prominent and hard. The vesicles are LOND ED, No. 1012.

depression likened to an umbilious, and they are said to be umbilicated; they are still farther increased in size, and are each surrounded by an inflamed areola. The contents of the vesicles also undergo change during their progressive development; they at first contain a limpid and transparent fluid, a layer of coagulable lymph is effused upon the exposed surface of the dermis, and the fluid becomes whitish and lactescent, preparatory to that change by which its place is to be supplied by pus. The skin, during the eruptive period, is hot, tense, and swollen.

Similar phenomena to those I have now latina, the eluption appears first on the face, membranes of the body, and especially on and thence extends to t. e upper extremities those which are exposed to the influence of the and trunk, and lastly, to the lower extremi- atmosphere. The mucous membrane is swollen and congested; at first punctated: the place of the puncta is speedily occupied by white spots resulting from the elevation of the epithelium from the papillary layer by effusion of lymph. A number of these white spots pharynx the progressive action rarely proceeds glutition is painful, and more or less impeded;

In confluent small-pox the symptoms are not so favourable as those I have just describred and inflamed bases and transparent vesicu- ed; the fever of invasion is severe, and hurlar points; the vari are now converted into rice through its course, is only moderated, vesicles. On the third day the vesicles have without remission, on the occurrence of crupincreased in size, their bases have enlarged tion, and the latter appears one day carlier and become more inflamed, and some of the than in discreet small-pox. The entire skin more advanced are flattened on the surface.— is of an uniform deep-red colour, very much During the fourth and fifth days the flatten- swollen, tense, and granulated, but the vari

eventually to form one continuous cavity over | day is frequently fatal. a surface of considerable extent, as over the entire face. Of course all trace of umbilica- pox commences on the eighth day of the eruption is absent; the contained fluid is in the tion, on the day of perfection of the pustule, first place limpid and transparent, afterwards and continues till the eleventh day. It is atopake and milky, and the decorticated dermis is concealed by a thick layer of coagulable lymph which constitutes a false membrane.

creet and the malignant confluent form of crup- muttering delirium, with a dry, brown tongue; tion, there are many degrees of semi confluence; a hard cough, with hemoptyeis; and occamoreover, the discreet and the confluent are sionally hæmaturia. frequently associated in the same individual in an ordinary case of small-pox. Those parts bing pain, redness, and heat, reach their utof the body which are habitually subject to most degree of intensity; suppuration is not irritation either from exposure to the atmos- effected in individual pustules, but, from the phere, or to the contact of secretion exhibit. concurrence of these, the epidermis is raised ing the latter, while on the general surface the over a surface of considerable extent, and dries discreet form prevails. It is for this reason up into a thin crust. Beneath this crust pus that we so frequently meet with the confluent continues to be poured out, and, desiccating eruption on the face, the hands, the buttocks, as it collects, the crust is thickened and alterand inner sides of the thighs of children .- ed in its colour to a brownish hue. Sydenham referring to this peculiarity observes, that if there be 10,000 pustules on the is retarded in its appearance until the eleventh

form of small pox is very distressing; the eye. creasing towards night; the latter is a symplids are excessively congested and swollen; tom of danger. the nasal passages are obstructed; the tongue tions of these parts interrupted and painful.

flammatory congestion; in the adult there is greeable and nanseous odour. commonly profuse salivation, an affection not inflammatory disturbance of the mucous mem. on more protected parts of the skin. Indeed,

so numerous as to blend by their bases, and | brane of the alimentary canal. The eighth

The secondary or suppurative fever of smalltended with great depression of nervous power, the patient is drowsy and listless, and there is more or less of delirium. In severe cases the As may be inferred, between the simple dis- symptoms are those of low typhus, there is

In confluent small-pox the swelling, throb-

The secondary fever in confluent small-pox entire body, 2000 of these will occupy the face. day. The patient is delirious and comatose, On the muceus membranes the confluent or restless and alarmed, the restlessness in-

The period of desiccation commences on the is enlarged; the membrane of the mouth, ninth day of eruption, and comprises all the pharynx, and larynx, swollen; and the func. remaining changes in the pustule until the scab is formed and cast off, and the skin The period of suppuration or maturation, is left free of the purulent collections .during which the vesicles are changed in co. For the first three days of this period the lour and form, losing their lactescent and um. seconday fever contines to rage, but the bilicated character, and becoming yellow and fomation of fresh pus has ceased; many of spheroidal, and are altered in their contents, the pustules are broken or torn, and their commences on the sixth day, and continues contents escape, while that which remains till the eighth, when the pustule is perfected on the expose surfaced quickly desiceates; the and the period is complete. The suppurative pustules which remain entire also dry up. In change commences primarly on the face, and this manner two forms of scab are produced; extends from this region to the rest of the body, the one resulting from the desiccation of a manifesting a disposition to affect those parts part of the contents of the original pustule, first on which the epidermis is most delicate. and of the effused fluid which takes its place, Maturation of the small-pox pustule is the and the other from the desiccation of the enmoment of the highest degree of aggravation tire pustule. There is some difference of of the cutaneous inflammation; and the latter colour between these two, for the former, being is the exciting cause of those severe constitu- often the result of violenc, is mingled with tional effects which constitute the secondary blood, which becomes a deep-brown or black or suppurative fever. On the eighth or ma- colour as it dries, while the latter retains a turative day, the skin is intensely red, swollen, lightish-brown tint. Wherever the surface tense, psinful, and throbbing. On the face has been made to bleed during the period of the tumefaction buries the eyes beneath the desiccation, the blood dries into black masses swollen lids; the whole head is increased in as it oozes from the wounded skin, or stains size, and a similar change is propagated from the crusts around it, and alters the natural the head downwards to the rest of the body. character of the incrustation. The drying up The mucous membrane participates in the in. of the pualent fluid is attended with a disa-

Desiccation commences on the face, often usual in children; and in both children and as early as the eighth day, particularly in the the adult there is a diarrhoa resulting from the | confluent form, but is less speedily apparent

it not unfrequently happens that crusts are | the alimentary viscera, and in others, again, formed in this situation, even before matura. the kidneys principally suffer, the local contion is complete on the lower parts of the body. Desiccation is accompanied by intolerable itching. This is a most troublesome symptom, particularly in children, and gives occasion to those extensive abrasions of the surface which | hæmorrhages are liable to occur at this period are represented after the cure of the patient by unsightly seams and scars. The period of desiccation is that of the decline of the local tion of suppuration is the most to be appredisorder; the tumefaction gradually subsides, hended of all the periods of small nox. Danthe cutaneous congestion diminishes, and the gerous symptoms invade and destroy in the fall of the scabs is attended with repeated ex- course of a few hours at this stage of the disfoliation of the epidermis.

some time red and congested.

COMPLICATIONS OF SMALL POX.

tion. The lever of invasion is sometimes at. of the mucous membranes and internal organs. tended with nervous depression of such ex- but no part of the body is perfectly free from ceeding intensity as to overwhelm the sufferer the attack of these dangerous disorders. I may at once and to prove fatal before any specific enumerate among these dreaded after consesymptoms are declared. In other cases delirium, convulsions, or coma, are the immediate precursors of death. Occasionally local city of the cornea, and staphyloma, producing and visceral pains are so distressing as to divert blindness; thickening of the lining membrano tion there is extreme anxiety, palpitation, and glottidis; bronchitis; hæmoptysis; pneumostates of the system the patient is liable to diarrhoa from ulceration of the mucous mempassive hæmorrhages, either into the area. brane of the bowels; abscess of the kidney, lar textures of the skin, constituting petechim bæmaturia; menorrhagia; miscarriage; caproducing epistaxis, hæmoptysis, hæmatemesis. | the joints. melæna, or hæmaturia ; or from some trifling abrasion.

The period of eruption, like that of invasion, may be subverted and disturbed by a variety sent modifications associating it in appearof conditions, and particularly by such as give ance with the allied eruptive fevers, is perrise to congestions of the viscera. Instances feetly consistent with the principles of phyoccur in which a train of symptoms indicating siology; but I am far from being disposed to nervous disorder of a dangerous kind, put a acquiesce in the opinion of a specific differsudden check to the progress of the cruption, ence between the poisons of the three diseases. or cause its retrocession. The vesicles on these | If a small-pox be perfect on one region of the occasions lose their firmness and roundness of body and aborted on another, it would be difform, and become flaceid and irregular. In ficult to distinguish the arrest of development

gestion producing, according to its seat, bronchitis, pneumonia, pleurisy, diarrhœa, dysentery, hæmorrhage from the bowels, nephritis, hæmaturia, or suppression of urine. Passive of the disease as well as at the preceding.

The secondary fever attending the complecase. Disorders of the brain and air-tubes are In discreet small pox the fall of the scabs especially to be feared, and when these occur takes place upon successive parts of the body an immediate arrest is put to the progress of from the eleventh to the fourteenth day, but in the pustules; they become flaccid, serous, or the confluent kind the removal of the scabs is sanguinolent, and in a few instances their not effected until the twentieth or twenth-fifth | pus is removed by absorption. The latter is day. The enormous crust which covers the one of the most fatal phenomena of the period. face like a mask remains attached for ten or The symptoms which may be regarded as intwelve days previously to its fall, and leaves dicative of danger during this period are, the the surface beneath of a vivid red colour, and absence of any of the usual concomitants of variously scarred and seamed by the ulcera- the disease, as of the active congestion and tions which have resulted from the cutaneous tumefaction of the skin; the absence of saliirritation. After the scabs are removed from | vation in the adult; the appearance of the dry the whole of the body the skin remains for and brown tongue of typhus; restlessness, anxiety, or mortification.

The termination of variola is not without The train of symptoms which I have just its dangers, from the secondary affections described may be taken as the ordinary fea- which are apt to succeed in the congested and tures of small-pox, but the various periods are weakened tissues. Some of these affections each liable to severe and dangerous aggrava- are limited to the skin; the majority are those quences of small pox, subcutaneous abscesses, boils, erysipelas, sphacelus; ophthalmia, epathe attention from the true nature of the dis. of the Eustachian tube, issuing in deafness; ease, or the heart being disturbed in its func. suppuration of the meatus auditorii; codema tumultuous action of this organ. In cachectic | nia; pleuritis; empyema; phthisis; chronic and purpura; from the mucous membranes, ries of the bones of the fase, and diseases of

It is stated by authors that small-pox has been seen in conjunction with scarlatina and also with measles. That small-pox may preother instances the respiratory organ, in others at its early period from a rubeola; a catarrh

a rubeola, while a concomitant angina might tion. incline him to scarlatina. The subject is wor. thy of investigation.

Besides the complications which I have now detailed in connection with the periods of usual degree.

PROCULATED SMALL POX.

turies in existence in the East and in the symptoms increase, the redness is more ex-Turkish dominions, was first performed in Eugland by Mr. Maitland, at the command of Lady Mary Wortley Montague, in 1721, the by her ladyship in Constantinople, at which court her husband was, for several years, ambassador. Though slow in extension in England for some years, inoculation eventually acquired the consideration which it deserved as a means of protection against the epidemic invasion of the variolous disease, and became one of the most important and generally practised of the minor operations of surgery. While, during the progress of a century, inoculation was gradually entwining its roots around the prejudices of society and veiling them from the eye, the members of the medical profession became moved by the repetition themselves in the train of this procedure. It individual were protected, yet that the variolous poison generated by that individual, and diffused by the atmosphere around, too frequently became the starting point of a spreading epidemic; that in truth, according to our present method of viewing animal poisons, the operation might be regarded as the act of multiplying the variolous virus, and perpetuating spontaneously its ravages. Instances of the mischievous and dangerous effects of inoculation became daily more intrusive, but no steps were taken to avert an evil springing from a good, until the immortal Jenner, in his ministry of philanthropy, turned his attention to the subject, and discovered the chastened yet beneficent influence of the variolus virus of the cow. The fourteenth of May, 1796, is an era in medicine ever to be remembered, when Jenner made the first experiment which confirmed the applicability of vaccine inoculation, an experiment which not half a century later was to banish small-pox inoculation

Although inoculation with the matter of ment of the local disorder. small-pox is now illegal, it will not be out of place to trace the effects, local and constitu- generally slight, but in rare instances has been tional, of this operation, and the more so as seen to attain the severity of idiopathic small-

might determine the practitioner in favour of | lustration of the stages of the idiopathic crup-

After the introduction, with the point of a lancet, of a small quantity of the lymph of a small-pox vesicle beneath the epidermis, no local effects are perceptible until the third. small-pox, it must also be borne in mind that day, when a slight blush is seen to surround the periods themselves are subject to varia. the inoculated point. To the sensations of tion, one while being prolonged beyond their the patient, the part feels warmer than natuordinary term, and another retarded in an un. ral and itches, and if it be touched by the finger it communicates a sensation of hardness and condensation of the integument. During The practice of inoculation, for many cen- the fourth and fifth days these signs and tended, the hardness is greater, the itching is converted into a tingling and pricking sensation, and a papula rises from the centre of the advantages of the practice having been seen patch of redness, the latter constituting an areola around the little elevation. On the sixth day transparent and colourless lymph is effused beneath the epidermis of the papilla. the latter is converted into a vesicle, and the vesicle assumes the characteristic umbilicated appearance. By the seventh day all the symp. toms have still further increased, the redness has become deeper and more extended, the inflamed skin is swollen and tender, painful when the arm is moved, and the lymph of the vesicle is lactescent. On the eighth day the vesicle is matured, the contents of the vesicle are still lactescent, but mingled with pus, and the areola presents a purplish hue. On the of alarming consequences which often showed | ninth day the contents of the vesicle are pus : it is consequently converted into a pustule. became evident that, although the inoculated | and by the accumulation of the purulent fluid. on this or the tenth day the umbilicated appearance of the vesicle is lost, and the pustule becomes spherical and mature. During the eleventh day the pustule is stationary; and on the twelfth desiccation begins, and continues till the fifteenth day, when the scab is completed. After the perfection of the pustule the local symptoms decline, the areola loses its redness and is less deeply purple, and the tumefaction subsides. The scab is of a deeply brown colour, of considerable thickness. and is thrown off between the twentieth and twenty-fifth day, disclosing a deeply pitted cicatrix, which remains for the rest of life.

The constitutional symptoms in inoculated small-pox usually commence on the ninth day, and consequently represent the secondary fever of the pustule, though primary of the consecutive disease. They are, for the most part, extremely mild, and sometimes so slight as to be scarcely appreciable. In rare cases the constitutional symptoms are induced and accompanied by eruption without the develop-

The eruption in inoculated small-pox is the course of the pock forms an instructive il. | pox of the discreet or confluent kind. It makes

its appearance on the third or fourth day of from time to time by various practitioners. It runs its variable course. The precise period be questioned. of the eruption, however, is subject to uncertainty, sometimes occurring at the end of a

ing protracted to fourteen days. bus with that which results from absorption by | ulceration. the lungs. The mode of ineculation pursued fluence: truly, are we wonderfully made!

VARIOLA SINE VARIOLIS,

lence of an epidemic of small-pox, that certain | bilicated. The umbilicus differs for the most individuals are affected with the constitution. part in tint from the rest of the pustule, being al symptoms of variola without the cutaneous reddish or brownish in colour, and occasiondisorder, in the same manner that we have ally, though rarely, transfixed by a hair. seen the constitutional affection of measles and scarlet fever to be present without the erup- subject of some interest to the pathologist, intion. The symptoms which are thus genera- asmuch as it serves to demonstrate, in a con-

the constitutional symptoms; that is on the must be confessed that the disease is extreme. eleventh or twelfth of inoculation, and then ly rare, but its occasional occurrence cannot

PATHOLOGY OF SMALL POX.

As may be inferred from the description of week after inoculation, and at other times be- small-pox with which I have now engaged your attention, disease of the viscera is a com-The mildness of the variolous disease en. mon appearance in the bodies of those who gendered by inoculation, as compared with have died of variola. The brain, the mucous that of natural small pox, I conceive to be de. membrane of the alimentary canal, the kid. pendant partly on the more gradual introduc- neys, and particularly the respiratory organs tion of the virus into the system, and partly are found congested, infiltrated, and softened : on the quantity, both conditions being modi and the morbid state of the blood is indicated fied by idioscyncrasy on the part of the sub- by the blush of redness which stains the interject. The surface capable of absorption pre- nal coat of the blood-vessels. I have already sented to the poison by the puncture or incis- remarked that a certain degree of thickness ions of inoculation, bears an infinitesminal and density of epithelium is necessary to the proportion to the surface of the respiratory formation of a pustule; hence pustules are membrane through which the poison diffused found only in those parts where this condition in the atmosphere enters. Again, the one, is present, as in the mouth, the pharynx, the namely, the mucous membrane, is physiologi. cophagus, the rectum, or in the respiratory eally constituted for the process of absorption; passages. On other parts of the mucous memwhile the other is forced by violence into the brane, as of the alimentary canal and urinary position of an absorbing surface, and its action passages, the disposition to the production of is modified by the reparative changes which pustules is indicated only by an abortive atare occurring at the same time. Could we tempt. There is congestion in the form of a place the skin in a similar condition, relative small irregular patch, separation of the epito absorption, with the mucous membrane of thelium, and the substitution, in the place of the respiratory apparatus, namely, by the re- the latter, of a thin layer of false membrane. moval of its epidermis, I apprehend that the When the false membrane is rubbed off the small-pox would be equally severe ceteris pari- appearance of the patch is that of a superficial

As respects the cutaneous pustule, we find by the Chinese is an illustration apt to my it to be modified by its position on the surface opinion; a small-pox crust is introduced into of the body. Thus, on the face, when the derthe nostril, and is there retained. The disease mic papilly are small and the inflammatory resulting from this mode of conveying the action rapid, the pustule is too speedily filled poison, as might be expected, is always more to obtain the umbilicated character which it severe than by inoculation through the skin; presents in other parts of the body. The pustor, in truth, the poisonous vapour is brought tules, therefore, are non-umbilicated and flat; in contact by inhalation with the whole ex- the latter character being dependant on the tent of one of the most active of the absorbing uniform density of the elevated epidermis. surfaces of the body. Every blood-corpuscle Where the epidermis is unusually thick, as on as it receives its charge of oxygen, is impreg- the palms of the hands and soles of the feet, nated with the poison of small pox, and the the pus is unable to raise it in the form of pusmarvel is, that life ever resists its deadly in- tules, and is spread out upon the surface of the dermis, forming a disk of a purplish yel-The eruption of inoculated small-pox is not low colour, surrounded by a white margin, unfrequently complicated with an erythema. which is seen through the epidermis. On the tous rash, constituting what has been termed general surface of the body the vesicle of small-pox is depressed in the centre, remind-It occasionally happens during the preva- of an orange. This appearance is termed uming us of the appearance of the floral surface

The structure of the small pox pustule is a ted were termed by Sydenham variolous fever; siderable degree, the succession of morbid and instances of this fever have been noticed changes by which the pustule is produced.

separated from each other by a transverse septum of false membrane. In the vesicular septum. stage of the pustule, the false membrane lay in contact with the dermis, and naturally acquired the umbilicated form, which it afterwards retained throughout the successive stages of the growth of the pustule. As soon as suppuration commenced the false membrane drin, not unsptly, to a spice-box. was separated from the dermis by the evolution of pus, and the latter, by rupture of the edges of the septum, made its way into the structure of the dermis being replaced by a

pyogenic membrane of recent formation. the vesicle of small-pox is not yet satisfacto- of phymosis and paraphymosis till after the rity established, and has been the subject of some contrariety of opinion. Dr. Heming self of the relaxing effect of this remedy.and afterwards published his belief in the " Medical Gazette." Velpeau, who is of opioperative cause.

My own opinion differs, as far as I know, and an adhesion between the papilla and the epidermic sheath which surrounds it. Subsequently, the inflammation spreads excentriinflammatory tendency has altered; the inflam- or three times a day. -L' Experience, Dec. 15. mation of the surrounding papillæ is of the effusive rather than of the adhesive kind; and while effusion proceeds from these, the adhe. seen that the inflammation of the central pahas commenced. At a late period the local have seen frequent announcements of "Sy-

When examined by a vertical section, the disturbance is communicated by multiplicamature pustule is seen to be composed of two tion to the entire surface, and no trace of the chambers, containing pus, and imperfectly periodic influence remains save in the permanently umbilicated appearance of the median

In proof of this description I may adduce the structure of the fully formed vesicle, which when divided by a horizontal section, is found to be multilocular, and has been compared by Bousquet to a severed orange, and by Gen-

BELLADONNA IN PHYMOSIS, &C.

This medicament seems likely to become superficial cavity of the pustule. The dermic the panacea for a multitude of diseases; and, bed of the pustule is highly vascular, and indeed, its peculiar properties have not hitherto sometimes ulcerated, the proper papillary been sufficiently taken advantage of in medicine. A writer in the "Bulletin Medical de Bordeaux" recommends that no section of the The cause of the umbilicated character of prepuce should be performed in the treatment practitioner has first attempted to avail himmany years since having his attention drawn He recommends an ointment composed of 30 to the subject by Dr. Armstrong, referred the parts of simple cerate, and 12 parts of extract appearance to the perforation of the pustule of belladonna, to be rubbed hourly on the by the excretory duct of a sebaceous gland, prepuce in cases of phymosis, and on the glans on the occasion of paraphymosis. If great inflammation and pain attend the latter connion that the seat of the pustules is the seba- dition, the ointment applied is to contain 4 ccous follicles themselves, would probably en- parts of the extract, with a small proportion tertain the same view with regard to the cen- of aqueous extract of opium, and 8 parts of tral depression of the vesicle. Rayer explains mucilage of quince-seeds to 30 parts of cethe appearance by the aid of the false mem. rate. About half a drachm of the mixture brane, giving the credit of the depression to may be rubbed over the glans three times athe attachment of this layer; while other day, the proportions of the belladonna and writers consider the porce of the skin to be the opium in the ointment being increased by degrees. In phymosis, the introduction, within the prepuce, is recommended, of small pieces from that of every other writer on the subject. of sponge moistened with a solution consist-I conceive the primary seat of cutaneous in- ing of 4 grains of ext. beliad., and 12 grains flammation to be a single papilla of the der- of aqueous extract of opium, to an ounce of mis, constituting the appearance termed punc. water, which solution may also be injected tum. The inflammation of this point causes hourly with a syringe between the prepuce tumefaction of the papilla, effusion of lymph, and the glans. The quantities of both belladonna and opium in the solution may be gradually increased to two or three times the above proportion. Conjointly with this treatcally to neighbouring papilie, but with the ment, the parts affected may be bathed in progression of the disease, the character of the warm infusions of the herb, or its extract, two

THE TETE EXALTEE is a physiological condition which our French neighbours seem on sion of the central papilla is maintained, and every subject to manifest. There is nothing the vesicle consequently tied to the surface in in the wide range of human ideas, nothing the centre. From this description it will be above, below, or on the earth, which may not in their hands be a theme for oratory or senpilla is throughout the morbific process of a timent. A short time since, the healing art different period to that which takes place became the subject of an epic. Very well; around it, and has run through its course al. there may be worse and less copious subjects most before that of the neighbouring papillae for such a purpose. But more recently we philis, a Poem in Two Cantos, by - Barthe- from the period at which the poisonous secrelemy," and in one of the latest Parisian jour- tion began to be formed in the primary sore,

A COURSE OF LECTURES ON SYPHILIS.

DELIVERED AT THE SCHOOL OF MEDICINE, GROSVENOR-PLACE, ST. GEORGE'S HOSPITAL, SESSION 1841-42.

By SAMUEL LANE, ESQ., Lecturer on Anatomy and Surgery, and Assistant-Surgeon to the LOCK HOSPITAL, LONDON.

LECTURE XVI.

lis by mercury, continued. When is t're mercury to be omitted? Mr. Judd's experiments. The opinions of Mr. Hunter, Dr. Wallace, and Mr. Mayo on this point. The nuret; the deuto-phosphate. Precautions to be observed during a mercurial course .-

the subject of syphilis (p. 838 last vol.), I was considering the constitutional treatment portant questions which immediately suggested themselves for our consideration were, the object to be gained by the employment of mercury; the principle upon which it acts; the period at which it should be commenced or omitted; the selection of the preparation to be employed; and the quantity required.

my last lecture, where it was explained to you in detail that the object was to lessen the hability to the secondary affections or even to prevent their appearance altogether; also to expedite the healing of the primary sore, but in certain cases only, namely, in those accompanied by excessive deposition, as evidenced by surrounding and persisting induration, or by the existence of over-luxuriant and fungoid granulations. The principle upon which mercury acts in the cure of sypnilis was stated to be as a general and powerful evacuant, by the means of which all the emunctories were sti- carefully collected facts, details some experimulated to increased action, in order to elimi- ments which he performed in order to deternate the poison as fast as it entered the blood, so as to prevent its injurious accumulation in cury, continued for different periods, in prethe system. The period of commencement of venting the occurrence of secondary sympthe mercurial course was accordingly dated toms,

nals is the announcement of a new work term- for from that instant would the absorption commence.

I shall now proceed to direct your attention to the remaining questions, viz., When is the mercury to be omitted? What preparation should be selected? What quantity of the remedy will be required?

Upon each of these questions you will find there is but little consent amongst our best authorities on syphilitic diseases. The plan I shall adopt in treating them, will be to lay before you the opinions of some of the writers of most weight in the present The constitutional treatment of primary syphi. day on the subject, and sum up by stating my own views, and the data upon which they are founded.

When is the mercury to be omitted? It should be recollected that I am now speaking lecturer's views on the subject. The selec. of the administration of mercury in the untion of the preparation of mercury, and the quantity or dose required. The administration of mercury by fumigation; by in. which mercury may be said to agree with the unction; its internal exhibition. The blue- system, or, at any rate, not to produce any of pill; the chloride of mercury; the bichlo- those extraordinary violent and injurious efride; the proto or deuto-ioduret; the cya- fects which compel the practitioner to abstain from its use. These states of disease occasionally resulting from the exhibition of this Supplementary or accidental symptoms of mineral will afterwards be treated of in a seprimary syphilis. Congenital phymosis; parate lecture, my immediate object being at present to give you some guide as to the pe-GENTLEMEN, - When I last addressed you on riod at which the mercury should be omitted in the treatment of primary syphilis.

The occurrence, too frequently noticed, of by mercury in the primary symptoms of this the appearance of secondary symptoms after disease. I told you then that the most im. a full course of mercury, and even in patients while under the influence of this remedy, has given rise to a strong impression in the minds of many surgeons that we are not warranted in continuing its administration for the sole purpose of preventing the secondary disease after the complete disappearance of the primary affection under its use. The general Some of these questions were answered in rule, consequently, is, in this country and on the continent, to omit the mercury as soon as the primary sore has completely healed and all induration ceased. We must not, however, forget that the principal object in the employment of this powerful remedy in the present day, as explained to you in a former lecture, is not to cure the primary sore, except where excess of deposition is the chief obstacle to the healing process, but to lessen the liability to secondary diseases. Mr. Judd, in a work on Syphilis published in the year 1836, containing many very interesting and mine the relative influence of courses of mer-

without mercury, of which two presented It should be recollected also, in duly appresymptoms of the secondary disease. In experiment 2-Ten cases, similarly circumstan. ced, treated with mercury for nine days, fur. nished as many as five cases of the secondary disease. Experiment 3-Ten cases treated with mercury for a fortnight afforded two cases of secondary disease. Experiment 4-Ten cases treated with mercury for three derations before you, I still adhere to the opiweeks gave but one case of secondary disease. Experiment 5-Ten cases treated with mercury for a month furnished two cases of secondary disease. Mr. Judd concludes, from these experiments that short courses of mercury increase the number of cases of secondary affections, and that to be of service in lessening the liability to the constitutional disease, the mercury must be continued for twenty-four or thirty days after the mouth has become slightly affected. He also expresses an opinion which, if true, ought considerably to modify the mercurial treatment of the primary disease; it is to the effect that mercury cures the chancre by promoting the absorption of the poison from the part into the system, and he conceives that his experiments just detailed warranted the notion held by him, viz., that a small quantity of this mineral renders the patient more liable to secondary disease, while the longer continued course, by counteracting the effects of the poison after it has entered the system, prevents the appearance of the symptoms, or cures them when present. It should be remarked, that however well contrived and accurately observed the experiments above described may be, they are not sufficiently extensive to establish so important a point, more particularly when we periment. consider how widely they differ from what has been stated by others to be the result of the on this point; I am not guided so much by mercurial treatment of primary syphilis .-(Vide Mr. Bacot's Summary of the Number of Cases of Secondary Disease following the Mercurial and the Non-Mercurial Treatment, p. 55 in his valuable Treatise on Syphilis.)— Where, after most carefully collecting the data administered.

If Mr. Judd's opinion that mercury promotes the absorption of the poison from the primary sore be correct, it would surely be judicious to abstain from its use during the poisonous stages of the chancre; and it is worthy of remark, that Dr. Wallace, whose opinions I have had frequent occasion to quote to you, actually prefers this plan of treatment; words, the length and severity of the mercuhe objects to the administration of mercury rial course. It will be obvious that if these

In his first experiment, ten cases of primary | previous to the setting in of the reparative disease taken, promiscuously, were treated and poisonless stages of the primary disease. ciating this plan of treatment, that it is now pretty generally admitted that the exhibition of mercury in the greater number of primary sores rather retards than hastens the healing process, and that its advantage is chiefly as a preventive of the secondary disease. Although I have thought it right to place these consinion I first expressed, namely, that the mercurial treatment should be commenced simultaneously with the production of the poisonous secretion. But to return to the subject under consideration, namely, the period at which the mercury should be omitted, Dr. Wallace is guided by the healing of the primary sore and the disappearance of all induration. But he gives, as a general rule, a fortnight after the healing of the sore as the time for the discontinuance of the mercury; he thinks, however, a longer period necessary where the sore has been small and has healed quickly, and a shorter under the contrary circumstances.

Mr. Hunter says, "In every case of a chancre, let it be ever so slight, mercury should be given internally, even in those cases where they were destroyed on their first appearance. It should in all cases be given the whole time of the cure, and continued some time after the chancres are healed."

Mr. Mayo states that the mercurial course should be continued for five or six weeks, but afterwards confesses that the shortest period and smallest quantity of constitutional effect necessary, to give a mercurial course full efficacy has still to be determined by positive ex-

I shall now explain to you my own views the period of healing of the primary sore or sores as by the length of time the poisonous stages of the chancres have existed, their size, and number, as sources of the varus; the precautions taken in the local treatment to remove the virus as fast as formed, or to defrom our own military hospitals and from compose it; in short, whatever would guide us others in different parts of Europe, he con- in estimating the probable quantity of the poicluded the average number of secondary cases son absorbed into the blood. On the other to be 1 in 10 under the non-mercurial treat- hand, the state of health of the individual, his ment, and 1 in 75 only where mercury was age, his mode of living, &c., as indices of the natural powers of his organs of excretion to eliminate the virus from his system; the season of the year, the vicissitudes of temperature to which he may be subjected, as causes interfering with the due action of the emunctories, should all, in my opinion, be taken into consideration in determining the period at which the mercury should be omitted, or, in other

tion of the murcurial course must vary in dif. locally. The usual method adopted for this purferent cases. I would fix the minimum for pose is a heated plate of iron, upon which a the purpose of preventing the appearance of sort of chimney is fixed, terminating by a narsecondary symptoms at three weeks; the row tube, generally bent at a considerable anmaximum at two months; and, in ordinary | gle for the convenience of application. cases, I should be satisfied with a six weeks' course.

A very general opinion prevails, against which I have endeavoured to guard you, namely, that mercury will not prevent, alpatient present himself to you who has had a cury, leaving no induration, and who is entireprovided he give you evidence that the specithe ordinary period, I should recommend you secondary disease. Reasoning upon our best data, his chances of suffering without mercury is as 11 in 10, with mercury as 1 in 75, and you would of course wish to give him the benefit of this lessened liability.

I shall now consider the selection of the preparation of mercury to be employed, and the

quantity or dose required.

have been adopted by surgeons. Fumigation and inunction, when the mineral is to be introduced by the skin, and its internal exhibi-

tion by the stomach.

ation usually preferred for the purpose of fumigation. When a general effect on the sys. ges over the preparations first mentioned, and tem is required the patient is placed in a machine resembling a vapour-bath, from which of witnessing. his head is excluded by passing through an opening in its upper part, or roof. The sul. alluded to as in general use in this country phuret of mercury, contained in a convenient present us with remedies of three different vessel, is heated by means of a spirit lamp, or thrown upon a heated plate of iron situated on | monly preferred, is the blue pill. For the purthe floor of the bath. The vapour will now rise and come in contact with the whole surface of the skin, excepting that of the head and face. The patient remains in the machine about a quarter of an hour each time.-The ordinary influence of mercury on the system will be experienced after the continued use in this way, of half a drachm to a drachm of the cinnabar, for a week or ten days, when the quantity may be lessened, or the fumigation used less frequently. A cloak of oiled silk, or other material through which the vapour of the mercury cannot escape, fitted securely around the neck, will answer the purpose sufficiently well, the patient being seated on a chair and covered by the cloak, while the cinnabar is placed on the ground and heated, as before explained. The fumes of cinnabar may ference to any other form. If it be intended

considerations are to be our guide, the dura- also be directed on a part, so as to be employed

The inunction is effected by rubbing in from half a drachm to a drachm of the strong mercurial ointment upon some thin and delicate portion of the skin. The inner part of the thighs is generally selected, but the inside of though it will cure, a venereal symptom. So the arms, the arm.pits, or other parts of the completely am I opposed to this view that if a body, will answer equally well. The friction should be continued for about a quarter of an primary sore which has healed without mer. hour each time. Its daily use for a week or a fortnight will generally mercurialise the sysly free from any evident venereal symptom, tem and necessitate the omission of the inunction every second or third day, or the quantity fic or poisonous stages of the chancre lasted used each day must be diminished. The mercury may be rubbed in by the patient himself to advise a mild course of mercury, as the best | or by another person. The inunction, like the means of preventing the appearance of any fumigation, may be used locally, for the purpose of hastening the absorption of indurated parts, connected or not with a hardened cicatrix, or with lymphatic glands in a chronic state of enlargement. When the mercurial ointment is used as a dressing to ulcerated surfaces the milder ointment is employed.

When mercury is exhibited by the stomach one of three preparations of the mineral is usu-Three methods of administering mercury ally selected in this country, viz., the blue pill, the chloride, or the bichloride of mercury. On the continent, however, many other forms of this remedy are in use, such as the proto or deuto-ioduret of mercury, the cyanuret, the The red sulphuret of mercury is the prepar- deuto-phosphate, &c.; but I am not aware that they possess any very decided advantawhose administration we are in the daily habit

The three preparations of mercury above strengths; the mildest, and that which is compose of affecting the system it is usually given in doses of five grains, combined with a quarter or half a grain of opium, night and merning. This quantity ordinarily produces the characteristic metallic taste and tenderness of gums in ten days, or a fortnight, and the dose must be regulated for the rest of the course according to the effects produced.

When the chloride of mercury is administered it is generally for the purpose of bringing the system more rapidly under the influence of mercury. Two grains, combined with a quarter of a grain of opium, given every three or four hours, will affect the gums usually in two or three days. Hence, in cases of iritis, or whenever the full effect of the remedy is required without delay, the chloride is selected in pre.

exciting cause may be the treatment must be directed against the existing inflammation, and must be regulated in its activity by the horizontal position, with the administration of and the penis should be supported towards the abdomen. Leeches are not usually advantageous. In the more severe cases general emetic may be necessary. But it is my object of the primary syphilitic sore.

It will be readily understood that a chanere or chancres on the glans penis, accompanied by inflammation, will produce considerable swelling of this part, so that the prepuce, without being either inflamed or thickened, may not admit of retraction. The inflammation, however, will shortly extend to the prepuce if active means are not taken to prevent it, and the inflamed prepuce, distended by the swollen glands, will soon have its circulation interrupted, and a slough will probably form, often of sufficient size to allow of the protrusion of the glans through either the side or upper part of the prepuce, giving, as Mr. Hunter observes, a strange appearance to the organ, as if it had two terminations, one formed by the glans and the other by the prepuce displaced and curved to one side.

under the contracted and swollen prepuce, arm. may irritate the surface of the glans, and if the parts kept as free from its contact as possible. a lymphatico-nervous temperament.

the primary syphilitic sore; but whatever the | CONSEQUENCES OF THE ACCIDENTAL INTRODUCTION OF PIECES OF GLASS INTO THE BODY.

M. Eck, of Berlin, reports in the "Medic. degree of this action present. In most cases Zeitung," 1842, No. 32, that a Prussian suit will be advisable to enjoin low diet and the baltern officer was affected with a partial paralysis of the right arm, which had resisted saline aperients, combined with antimonials. all the general and local means of treatment The Goulard lotion, the decoction of poppies, employed for its removal. This paralysis, or a bread poultice may be applied to the part, which chiefly exhibited itself in the flexor muscles, had been preceded in its commencement by sharp pains, extending from the palmar surface of the thumb along the foreblood-letting and nauseating doses of tartar- arm and humerus. M. Eck examined the thumb on its palmar side, and on observing at present more especially to speak to you of several old cicatrices there he elicited from the treatment of phymosis as a complication the patient that a few years previously he had fallen down with a bottle in his hand, several fragments of which had penetrated his thumb; but, as he had been assured, every one of these was afterwards extracted. M. Eck, however, rationally conceiving that some fragment might still remain to keep up the present symptoms, pressed each of the cicatrices with some force, which operation in one place caused acute pain. He accordingly made a deep incision in that place, and on probing it with the end of a bistoury he found his instrument distinctly to strike against a hard and gritty substance. After the hæmorrhage had been in some degree assuaged, M. Eck, who now made out clearly that this substance was a piece of glass, extracted it by the help of a pair of forceps, dressed with charpie; but with considerable difficulty, so deeply was it imbedded, and closely enveloped with the surrounding structures. It proved to be about The chancre causing the phymosis may be half an inch in length, and of a curvilinear situated on the prepuce in the first instance, shape, its larger extremity having been the the glans being unaffected, but the secretion more deeply seated. On its removal the from the ulcer not getting a ready escape from patient soon recovered the complete use of his

In the "Gazette des Hopitaux" for the slightest excoriation take place inoculation 22nd Dec. ult., is detailed the case of a man will be the consequence, an inflamed and who having severely cut himself by treading swollen state of the glans is thus added to that on some broken glass in his bedroom, entered of the prepuce, the circulation in both will the Hotel Dieu, Paris, where his wound was be impeded, and sloughing in one or both is healed, the continuance of a piece of glass, threatened; or the original sore may impli- decoly scated within it, not being recognised; cate both the glans and the prepuce, and the but about five months afterwards he was unsame series of symptoms be occasioned. You able from pain to put his foot to the ground, will generally be enabled to prevent the in- and he reentered the hospital. M. Breschet, flammation extending to the degree above after ascertaining the fact that a foreign body described provided you have the management still remained within the foot, made a crucial of the case from the commencement, by incision in the sole, and extracted a piece of adopting the antiphlogistic plan already re- glass, nearly an inch in length by half an inch commended, accompanied by frequent ablu- in breadth, from the space between the first tions and injections of warm water, Goulard's and second metatarsal bones. A severe attack lotion, decoction of poppies, or any mild and of phlebitis supervened after the operation, as unirritating fluid, by which the secretion of far upwards as the groin, and which was not the ulcer may be prevented from accumulat- overcome without much care, nor until the ing between the glans and prepuce, and these lapse of nearly a month, the patient being of

General Dispensary; and Author of "Lectures on the Blood," published in The Lancet for 1839—40.

No. VIII. The " Yellow Bile."

One of the primary humours of the ancients, duct into the duodenam; but in a healthy was for many years regarded as a prolific person the faces of the intestines are of a socause of diseases; an extensive series of symp. lid consistence, whence it follows that almost toms were traced to it; and it furnished the the whole mass of fluid secreted by the liver, practitioner of physic with some of his most and poured into the cavity of the intestines, is important indications of care. Numerous again secerned or drunk up from the alimenfacts connected with the bile survived the tary and fæcal contents, before they arrive at downfall of Galenical medicine, and these the anus." facts were by no means lost sight of by the Bile, as thus described, was the fluid to promulgators of the doctrines which followed which the physiologists and physicians of that event, or by their disciples. The latro- the last century attached so much importance. chemists, as they have been called, in particu- Their practical indications appertaining to it lar, attached great importance to these facts, were founded on their physiological opinions. making them the foundation of some of their With a change of physiology came a change most important theories. It would not be pro- of the theory of medicine as respects everyfitable at the present moment to pause for the thing connected with the liver, and a change purpose of investigating these theories, al- of practice also, except that deeply rooted though the present state of science declares opinions, formed from the universal observathem to be less fanciful and more true to na- tion of facts of every-day occurrence, were ture than the sweeping prescription that they not so easily eradicated. The bile was now have met with would permit us to believe .- regarded either as a purely excrementitious During the eighteenth century the bile was fluid, or as a simple excitant of the peristaltic submitted to further scrutiny. Bianchi, of motion of the intestines; or as, probably, an Piedmont, published a history of the liver and active agent in the conversion of chyme into of hepatic diseases. Tissot described a bilious chyle, but no longer as a fluid to be resorbed. epidemic with great minuteness, and in the into the system, much less as a fluid possesswritings of Stoll, in Germany, the utmost im. ing any utility whatever, beyond the offices portance was attached to the bile, and to the which were admitted by some physiologists diluting and evacuating mode of treating that to appertain to it within the parietes of the fluid. According to the authors of this period intestinal canal. With these limited views the bile occupied the most important place in of its uses in the animal economy, came pathology. Polycholia, bilious fevers, and bi- equally limited notions of its importance in lious derangements, were the most frequent pathology. It will be found, as we proceed, morbid conditions. In our own country Hux- that the facts and reasonings contained in the ham, in particular, observed bilious complica. Animal Chemistry of Professor Liebig, tend tions in almost every disease. These were to confirm several of the opinions entertained the prevailing opinions when solidism, arising respecting the bile during the last century, out of the discoveries of Glisson and Haller, that they give to it a higher physiological was received into public favour from the popular chair of Edinburgh, supported by the genius of Dr. Cullen.

of the bile is most important and instructive practice. in connection with the present inquiry; I give it in part in a few sentences from his com- year 1759, to determine the chemical commentator, Van Swieten :- "The bile is a true position of bile; and in 1767 Cadet published native soap formed in an animal body. Soon an analysis in which he represented it to be after the crude aliment has begun to be di- of a soapy nature, a compound of an animal gested this is thrown in upon it, in order to oil with an alkali; and he discovered that render the whole one uniform mass, and make alkali to be soda. This view was adopted. it dissolvable in water. This is so well known, as I have already intimated, by the medical

LIEBIG; the chyle in the duodenum it impresses on it HIS CHEMISTRY, AND REVIEWERS. what may be called the first character of hu-By HENRY ANCELL, Esq., manity, and changes the acid or acescent part
Lecturer on Medical Jurisprudence at the School of the line and the greet carealty of Anatomy and Medicine, Grosvenor place, Saint tude of the liver, and the great capacity of George's Hospital, and Surgeon to the Western the biliary pores, with the quantity of blood the biliary pores, with the quantity of blood carried to the liver for the secretion of bile, seem to teach us that a very great proportion of this fluid is drained off by the liver, and poured from thence by an ample or common

importance, and there cannot be the slightest doubt, should they be confirmed and generally adopted, that they must open out, very Boerhaave's opinion of the nature and use speedily, new and improved principles of

Neumann made the first attempt, about the that silk-scourers make use of it to clean their schools of the period. Foureroy, Powell, silks of greasy spots." "When mixed with and others, followed up the investigation.

picromel. Berzelius gave, subsequently, the elements. name of biliary matter to the picromel of as many as twenty-three substances from ox its soda, salts, &c., is bile, and thirty-eight or forty different substances have been described as constituents of bile under various circumstances. Gmelin detected taurine, and believed it to be a newly-discovered component part of bile; but sufficient proof has been afforded that it is a product of the biliary matter before mentioned, formed during the process. The latest analysis of this description is by Frommherz and Gugert.

The bile was examined anew in 1838 by fixed alkalies on bile Demarcay. A sufficient guarantee of the importance of his experiments and of the credit due to them, is to be found in the fact, that they are sanctioned and adopted by Dr. Thomson, of Glasgow, in his late work on the Chemistry of Animal Bodies. Demargay's discoveries form the basis of Liebig's theory of the formation and uses of the bile.

According to Demargay, ox bile as originally discovered by Cadet, is an oily acid combined with soda. Thomson describes it analysis of each substance.

Choleate of Soda.

Choleic acid, the acid of this compound, is the picromel of Thenard and the biliary matter of Berzelius. It is a yellow, spongy, representing bile itself to that of cholcic acid. pulverulent, combustible, very deliquescent impression of sweetness, and its powder litmus, and decomposes the carbonates, with effervescence.

acid is very peculiar. When bile is boiled with an excess of hydrochloric acid its choleic acid is converted into choloidic acid and taurine, two new substances, and ammonia. When bile is boiled in a fixed alkali its choleic acid is converted, on the contrary, into cholic acid, a new substance, and carbo-

nate of ammonia.

It is essential that we should distinctly understand Liebig's own views respecting choleic acid and its compounds. He regards from the soda, salts, and all the inorganic constituents. The substances above mentioned are the products of the metamorphoses of the bile, none of them existing ready formed in this fluid. The elements of these precisely the same manner in the bile, and in leads to some inferences of the highest

but Thenard's analysis, in 1805, was consi- the compounds above described as produced dered as overturning the notion of its soapy from it; nor has this circumstance the nature, and its most essential principle was slightest effect in the determination by anadescribed by him under the designation of lysis of the relative proportions of these

The formula adopted by Liebig for choleic Thenard. Tidemann and Gmelin extracted acid, and accordingly for bile separated from

C76 No H66 O22 Those of the products above described resulting from the action of hydrochloric acid on bile, are

= Choleic acid C76 No H66 O22 Those of the products of the action of the

Cholic acid..... C74 H60 O13 2 eq. carbonate ammonia Co No Ho O4

= Choleic acid C76 No H66 O22

In Liebig's reasonings it signifies nothing that the choleic and choloidic acids may be composed of several compounds united together, or how many such compounds they may contain. The formulæ express the relative proportions of the elements derived from the

Thus the complicated analyses of the bile by former chemists, which time has amply proved to be valueless, are reduced to these simple formulæ, and the formula most nearly

Liebig states distinctly that he does not substance. Its taste is very bitter, with an consider the bile as a choleate of soda, and he gives a very substantial reason. Choleate of irritates the nostrils and throat. It reddens soda, formed artificially with choleic acid obtained from bile, has not the same chemical qualities as bile. So that while our author The action of acids and alkalies on choleic gives the name of choleic acid to the whole of the animal matter contained in the bile, he regards the bile as a very remarkable compound of the analogue of choleic acid with soda, the nature of which compound is not yet determinable.

This brief statement will facilitate the right understanding of

Liebig's whole Argument concerning the Bile. Already in the 5th paper, part of this series, an explanation has been given of the simple form which nutrition assumes in certain carit as the analogue of the bile itself, separated nivora. It is a fact that the chemical constituents of the urine of these animals, taken with the chemical constituents of bile, are together equal to the essential component principles of their food. If this fact stood alone it might be passed over as an interestsubstances are precisely the same as those ing coincidence of slight physiological importwhich occur in the bile, but it by no means ance. But it occurs in association with numefollows that these elements are arranged in rous other facts, a due consideration of which importance. In the example here referred to, | changes analogous to these in its action upon carbonic acid gas and water.

Bile in the Carnivora.

other.

of bone-earth, and their urine contains urea, stances. according to Liebig, there is a greater excess | urate of ammonia. of carbon available for the formation of bile, | Finally, the mode in which an atom of uric said of hydrogen.

Following Liebig in his chemical argument we are led, in the next place, to consider the circumstances which attend the conversion of uric acid into urea. The disappearance of the former, and the appearance of the latter, in different animals, are stated by him to Equal to stand plainly in close relation to the amount of oxygen absorbed in respiration, and the quantity of water consumed in a given time. The water favours the solution of the uric acid or of its compounds, and promotes the action

of oxygen upon them.

acted upon by oxygen, a series of transforma- to the compounds of carbon and hydrogen. tions takes place. It is first resolved into which compose that fluid. It is a circumalloxan and urea, then, by a new supply of stance of considerable interest and importance oxygen, the alloxan is converted into oxalic to the present inquiry that the nitrogenised acid and ures, or into oxaluric and parabanic products of the transformation of bile are acids, and ultimately it is converted into car- identical in ultimate composition with the bonic acid gas and urea.

the iliving animal body, oxygen produces water:

the excrements are composed of urate of uric acid or its elements, derived from the ammonia, they contain absolutely no bile metamorphosed tissues. In animal systems, The bile must, therefore, be resorbed into the | which do not usually deposit uric acid, anysystem, and its compounds of carbon and hy- thing which prevents the free action of drogen must be ultimately eliminated as oxygen favours the formation, or rather the accumulation, of this substance; or favours the formation of those compounds which con-So intimate is the relation which subsists, tain a minor proportion of oxygen as compared according to Liebig, between the formation of with carbonic acid gas and wrea, into which bile and trine in the animal body that one can- it would otherwise be converted. Thus tiric not be studied apart from some of the most acid and its salts appear as calculi in man important considerations belonging to the and other animals in want of exercise, and under those circumstances which lessen the The animals in which nutrition occurs in absorption of oxygen. Articles of diet, as for the above simple form are among the lower instance wine and fat, being compounds of classes, as serpents, amphibia, and perhaps carbon and hydrogen, which by uniting with worms and fishes, which respire but little ox- oxygen prevent its action on the uric acid. ygen and take but little exercise. In those are attended with similar results. Thus Lieof the same class (carnivora) which respire | big quotes the fact from Dr. Prout, that urine, more oxygen, and lead altogether a life of after fat food has been taken, is turbid, and greater energy, no oric acid or orate of am- deposits minute crystals of oric acid. The monia occurs in their excrements. These formation of oxalic acid and its compounds, substances are replaced by urea. Thus, the and of alloxan, and their appearance in the excrements of lions and tigers consist chiefly urine, are promoted by analogous circum-

a compound in which carbon and nitrogen | This is sufficiently illustrative of the very are in the same ratio as in the neutral carbo- material point, that the disappearance of uric nate of ammonia. As in serpents, their food acid and the appearance of urea in the urine contains eight equivalents of carbon to one of of animals, is attributable to the action of nitrogen, but their excrements furnish only oxygen. That water promotes this action is one equivalent of carbon to one of nitrogen, exemplified in the case of birds and animals which is even a smaller proportion of the which seldom drink; uric acid then predomiformer to the latter than occurs in the excre. nates. The excrements of a buzzard fed ments of the last-mentioned reptiles. Thus, only upon meat were chiefly composed of

and which must be ultimately converted into acid may be resolved into urea and carbonic carbonic acid gas, in this than in the former acid by the addition of six atoms of oxygen variety of carnivora, and the same may be and four atoms of water, is shown as follows :-

1 at. uric acid C10 N4 H4 O6 4 at. water 6 at. oxygen..... 2 at. urea C4 N4 H8 O4 6 at. carbonic acid C6 O13 Cio Na Ha Ois

In the former paper it was shown that the bile contains nitrogenised compounds, al-When uric acid, out of the living body, is though they bear but a very small proportion constituents of urine, if to the latter be added Numerous facts support the opinion, that in a certain proportion of the elements of 1 at. uric acid C10 N4 H4 O6 1 at. urea C. No H, O. C12 No H20 O30 Are exactly equal to 3 at. tanrine C1. N3 H21 O30 3 at. ammonia..... N3 H9

C12 N6 H30 O30

is next to be considered. It has been seen carried from the intestinal canal to the that in these animals, together with the com- liver, where they meet with the products of pounds of proteine essential for their nutri- the metamorphosed tissues, and are converted tion, a large proportion of non-nitrogenised into bile; but he by no means excludes the substances, which cannot be employed in the opinion that these said non-nitrogenised prinnutrition of their tissues, is received into the ciples, after undergoing some change, may be system with their food. Life, however, can- conveyed to all parts of the body, and unite not continue in this class of animals unless where the change of matter is going on, with they are supplied with compounds of the the elements separated from the tissues, to latter description, as starch, sugar, &c., which, form bile and urine. for the most part, are composed of carbon. and of the elements of water in the proportion | which is alkaline instead of being acid. It to form water. It has been shown, also, that contains an abundance of alkaline carbonates, the excess of carbon separated from the living and little or no phosphates. The food of this tissues in carnivorous animals, over and above | class of animals contains more agotised comthat which enters into the composition of pounds than are necessary for the supply of urine, appears in the form of bile. Those waste alone (Paper VII.), and a very great parts of the metamorphosed tissues which are abundance of carbonaceous material. It will immediately consumed in the process of er- be seen on a future occasion that the object of emacausis by oxygen, are voided as useless this large quantity of carbon is the production excrements. Those which are not so imme- of animal heat; but the quantity is frequently diately consumed re-enter the circulation, greater than can be disposed of in this way, according to our author, previous to the final owing to a deficiency of oxygen. This excess changes which they undergo. The same of carbon is, in part, evacuated in the urine, big's object is to show that in the latter, the instead of containing uric acid or urate of ambile is formed not only from those products of monia, contains urea, ammonia, and benzoic the change of matter in the tissues which do or hippuric acids, which are compounds richnot pass off by the kidneys, but also from that er in carbon than those of the urine of carnipart of their diet which does not contain ni- vorous animals. trogen, and which is not employed in the nutrition of the body at all.

source, as it were, of bile in the herbivora, are manifold. In the first place their bile contains the same nitrogenised constituents as that forty-five atoms of oxygen are added to the bile of carnivora, and, secondly, it con- the empirical formula, multiplied by five of tains a much larger proportion of carbon than their blood, during its metamorphoses. The could possibly reach the liver, in consequence | products may be represented thus: of a change of matter; perhaps five times as much as the metamorphoses of tissues could furnish. A part of this large quantity of carbon must be derived from starch, sugar, &c.; that is to say, from the non-nitrogenised principles of their food.

Suppose starch to be the principal substance which contributes to this. It may be shown, chemically, that by the abstraction 5 (C48 N6 H39 O15) + O45

of a certain quantity of oxygen from starch (as in the case of the formation of fat,) choloidic acid, one of the substances before pointed out, analogous to the only acids, will be produced. But, since the bile is a compound of nitrogen, its formation is impossible without the addition of an azotised body.

That the latter is furnished by the metamorphosed tissues seems to be indicated by the facts, that the gall-bladder is found dis. And that some relation subsists between the tended with bile in animals starved to death, bile and the urine, and the bile and the meta- and that the secretion of bile, as well as that morphosed tissues, is rendered extremely pro- of urine, goes on during hybernation, and in bable by a consideration of these formulæalone. the fœtus in Ltero. Liebig remarks that the The Formation of Bile in the Herbivora non-nitrogenised principles of food may be

Let us now look to the urine of herbivora, thing occurs in herbivorous animals, but Lie. and in part deposited as fat. The urine,

The manner in which bile consisting of choleic acid, and urine containing the com-Liebig's reasons for this belief of a double pounds just mentioned, are formed in herbivora, is thus conceived by Liebig.

Suppose the animal in full exercise, and

6 at. benzoic ac. $= C_{84}$ $H_{30} O_{18}$ 13 $\frac{1}{2}$ at. urea $= C_{27} N_{27} H_{54} O_{27}$ 15 at. carbonic ac. $= C_{15}^{27} C_{14}^{27} C_{15}^{54} C_{27}^{27}$ 3 at. choleic ac. $= C_{114} N_3 H_{99} C_{33}^{27}$ 12 at. water == H₁₂ O₁₃

C240 N30 H195 O120 which equals exactly

Suppose, again, the animal stall-fed, and | larger quantity of soda in their food, and the

 $\begin{array}{c} = C_{108} \, \overset{}{N}_{6} \, \overset{}{H}_{48} \, \overset{}{O}_{30} \\ = C_{18} \, \overset{}{N}_{18} \, \overset{}{H}_{36} \, \overset{}{O}_{18} \\ = \overset{}{N}_{3} \, \overset{}{H}_{9} \end{array}$ 6 at. hippuric ac. 9 at. urea 3 at. ammonia $\stackrel{=}{=} \stackrel{C_{114}}{\overset{}{\stackrel{}{N_3}}} \stackrel{H_{99}}{\overset{}{\stackrel{}{H_{39}}}} \stackrel{O_{33}}{\overset{}{O_3}}$ 3 at. choleic ac. 3 at. water

> $C_{240} N_{30} H_{195} O_{84}$ which equals exactly

 $5 (C_{10} N_c H_{20} O_{15}) + 0$

Thus we have the essential constituents of the bile and urine in herbivorous animals, ac. counted for under all circumstances, from the component parts of their blood, or of their metamorphosed tissues.

The Part which Soda plays in the Phenomena before us

has to be considered in the next place. Liebig's remarks under this head are again most the serum of the blood and in the bile. Rewhich is formed into new tissue must give up essential to the production of milk. its soda to the particles separated : that is to say, to the compounds formed by the metamorphoses of previously existing tissue. Of such compounds of soda the bile is the most nomy it does so by way of the kidneys, in the form of phosphate, carbonate, or hippu rate of soda. The soda of the bile is found in the fæces no more than the animal matter or choleic acid, and it must accordingly, as well as the organic matter, return into the circulation from the intestinal canal.

The quantity of soda required by animals of different classes is singularly unequal .-The food of the carnivora contains but very little. Accordingly, sometimes none and for or to the change of tissue, and a part of this the most part but a small quantity is expelled in their urine. When they obtain in their food as much as suffices for the production of their blood an equal amount is excreted; when they obtain less, a part of that which would other. | rived from a compound of proteine. wise be excreted is retained by the organism. Salts of ammonia, with sulphate and phosblood to form bile is absolutely necessary.

respiring a minimum of oxygen, say nine alkali predominates in their urine in the atoms to five of blood, the product would then form of carbonate, hippurate, or benzoate of soda, compounds, as before intimated, containing large quantities of carbon; they also form a larger quantity of bile, much more than answers to the metamorphosed tissues. The soda of the blood employed in nutrition cannot possibly suffice for the supply of the daily secretion of bile in this class of animals. Hence the herbivora require soda to be furnished directly from their food, and they have the power of applying directly to the bile all the decomposable compounds of soda received into the alimentary canal.-The abundance of soda in the blood and bile of herbivora is indicated, as we see, by the qualities of their urine before described. The soda consumed is much more than can possibly be required simply for their daily consump. tion of blood in nutrition, and their food contains all that is necessary to form a second interesting. Soda is derived, for the most part, compound of soda. These substances, formed from common salt. Nearly the whole of this of animal matter and soda, serve the purpose alkali in the animal economy is contained in of fuel in the production of animal heat, the compounds of soda in the urine being the garding the blood, then, as a compound of ashes or caput mortuum; and thus it is that, soda, when the tissues receive the materials of as in plants, so in animals, the vital process their nutrition from the blood, the soda must is closely connected with the presence of alkabe retained in that fluid; so that the blood lies; potassa, according to our author, being

Thus the non-azotised materials of the food of herbivora are traced by Liebig to a compound of soda, which compound, whether it forms bile or not, must serve the same purpose important. When the alkali leaves the eco- as the highly carbonised material, the bile. serves; for its animal matter is ultimately eliminated from the system in the form of carbonic acid gas and water. The facts relating to the soda in the blood and bile of animals, mutually confirm, and are comfirmed by, Liebig's theory of the origin of the bile.

The constituents of bile in the herbivora. then, contain nitrogen derived from the compounds of proteine; they contain more carbon than corresponds to the nitrogenised food carbon must be derived from the non-nitrogenised food. In the formation of bile a part of the elements of starch, sugar, &c., must combine with a nitrogenised compound de-

Thus it is that the formation of bile is accounted for in the distinct forms which nutriphate of soda, are formed in the acid urine of tion assumes in carnivora and herbivora. But carnivora, a decisive proof that the soda of the food of the young and the former class their metamorphosed tissues is insufficient to approaches in its nature to that of the adult neutralise the acids. But viewing the blood of the latter class (Paper VII.): bile is acas a compound of soda, a given amount of the cordingly produced in the same way. The latter must pass into a new compound, that of caseine of milk supplies the essential constitubile, so that a sufficient quantity of soda in the ents of blood to the young animal, but in the butter and sugar of milk, which cannot be Merbivorous animals consume a much employed in nutrition, we find an excess of

BILE IN MAN.-FRACTURE OF THE FEMUR IN OLD AGE.

carbon and hydrogen. This hydro-carbona- | tially converted, might give rise to the producwhich has been adopted indicates the produc- of urea. tion of the bile from the two sources-the products of the metamorphosed tissues, and the non-azotised principles of food.

A farther confirmation of this important doctrine is found by the author in an examination of the fluid of the allontois, and of the

meconium of the fætal calf.

The allantois in mammalia contains a fluid | nic acid :from which the chemical principle allantoine has been obtained. Physiologists have for some time known that this fluid in the employment of the first plant C_{00} at starch. C_{00} C_{00 bryo represents the secretion of the future kidneys, and uric acid has been found in that procured from birds. The composition of meconium, according to Berzelius, is similar to that of bile; choloidic acid may be regarded as its principle constituent (p. 141). Six atoms of allantoine with one of choloidic acid is equal to two atoms of proteine. Thus, in the fœtus, the essential constituent of the allantoid fluid (urine?) and of the mcconium the formula of the basis of albumen and fibrine furnished by the mother, and every physiological observation is in favour of these two substances being products of the change of mat. fœtal life.

formed, there remains to illustrate the

Origin and Production of Bile in Man. As living upon animal or vegetable food exclusively, the reasoning is the same as hitherto adopted, and regarding man as an omnivorous animal, it does not materially differ. Liebig's is an elaborate but a very beautiful argument to demonstrate, that if the elements of proteine (starch, oxygen, and water being also present,) undergo transformation together, and mutually affect each other, we obtain as the product of their metamorphosis-

Urea, Ammonia. Choleic acid, Carbonic acid gas.

And besides these no other products what-

I. Proteine is converted into choleic acid and urate of ammonia.

II. Uric acid disappears, and is replaced by urea and carbonic acid gas, as a consequence of a complete oxidation of the products of the metamorphosed tissues.

III. But in the more complicated forms of

coous matter is given off ultimately as car- tion of hippuric acid and urca. Thus, 2 atoms bonic acid gas and water, for it does not occur of proteine, with the addition of 3 atoms of in the fæces or urine; but bile is secreted in uric acid and 2 atoms of oxygen, are equivaample quantities, and the train of reasoning lent to 6 atoms of hippuric acid, and 9 atoms

IV. Further; uric acid, choleic acid, and ammonia, contain the elements of proteine in a propertion almost identical with that of proteine itself; and

V. The elements of starch, added to those of hippuric acid are equal to the elements of choleic acid plus a certain quantity of carbo-

Cos No Hes Os Equal Equal 2 at. choleic acid... = $C_{76} N_2 H_{66} O_{23}$ 20 at. carbonic acid.. = $C_{23} O_{40}$

VI. From these premises it follows, that if from five atoms of proteine with the addition of oxygen and the elements of water, we (bile?) with the addition of water, make up subtract the elements of choleic acid and ammonia (the products of part of the proteine minus uric acid,) the remainder (the products of the other part of the proteine plus the wie acid of the former) will represent the elements ter in the tissues, which must occur during of hippuric acid and urea, and the elements of starch being added to the elements of the The bile having been thus traced to its hippuric acid, will form carbonic acid with source in different classes of animals, and in an additional quantity of choleic acid. The various circumstances under which it is results of these metamorphoses are exhibited in the following equation :-

9 at. choleic acid. 5 at. proteine, 15 at. starch, = 9 at. urea.
3 at. ammonia.
60 at. carbonic acid. 12 at. water, 5 at. oxygen,

Thus, by the process of cremacausis, or the action of oxygen gas in the intimate structures of the living system, with the addition of certain component parts of the food received into the blood, may the chief constituents of the animal secretions and excretions be accounted for; urea and carbonate of ammonia for the kidneys, carbonic acid for the lungs, and choleic acid for the liver.

On examining the author's splendid chain of reasoning to account for the origin and formation of the bile, and the extraordinary results to which it has led, it is obviously founded upon the relations which exist between the chemical equivalents of the essential constituents of food, blood, the animal tissues, and the principal secretions and excretions. One fact only is assumed from the statements of physiologists, respecting the quantity of bile secreted by an animal, viz., metamorphoses, the uric acid, while only par- that it is much greater in the herbivora than

statements are referred to in confirmation of it so, the bile in this case is carried by the the theory, and they require to be noticed in lymphatics to the thoracic duct, and it may this place.

cording to Haller is twenty-four ounces Liebig, and by physiologists generally, having daily. L'Héritier quotes the case of an indi. merely evaded, as it were, the alimentary vidual who was affected with a biliary fistula, cavity. Bile is absorbed from the alimentary from which bile flowed to the amount of canal, with other substances when used as an about sixteen ounces in twenty-four hours, enema. Finally, Magendie believes that chyle but in this case it is not certain that the whole may be produced by the admixture of bile of the bile secreted was evacuated through with the other intestinal fluids, without the the opening. Schultz found from twelve to presence of any chyme at all, as seems to be sixteen ounces of bile in the gall-bladder of shown by the existence of a lactescent fluid oxen which had not recently taken food, and in the lacteals of dogs kept without nourishafter digestion from two to four ounces. The ment for periods varying from twelve to thirtylast mentioned physiologist has determined six hours. These considerations appear to the quantity of bile secreted by animals from | me to afford pretty conclusive evidence that its neutralising quality. Since the chyme is the greater portion of the whole bulk of the acid, and the whole of its acid becomes neu- bile is reabsorbed from the alimentary canal. tralized by the bile, it was only necessary to ascertain the quantity of chyme formed in order to determine the quantity of bile secreted. In this manner it was found that a large dog | change the acescent part of the chyme into an secretes about thirty-six ounces, and that opposite nature, and if the whole mass of the horses must pour into the alimentary canal about 37 lbs., and oxen about 37½ lbs. of bile daily. Liebig adopts twenty-four ounces as the anus, then were the views entertained rethe minimum of fluid bile secreted by man, specting the bile during the last century, which, calculating at 90 per cent. water, and 69 per cent. carbon in the dried bile, is not than those which have been in fashion during two ounces of carbon daily, but this is five the greater portion of the present century. times the quantity which could reach the liver in consequence of the change of matter | vailed, the bile is of far greater importance in in the body; hence it may be concluded that | physiology and pathology than has more renon-nitrogenised substances afford bile.

That, as a general rule, bile returns entirely into the circulation, and disappears completely, appears to be manifested in a variety of ways. In numerous animals provided with a biliary apparatus, which secretes bile abundantly, not one particle of this substance appears in the fæces. In 1000 parts of fresh human fæces Berzelius found only nine parts one-fortieth or one-fiftieth part of the bile adliver of man. Bile, again, has been shown to be a compound of soda, but little or no soda appears in the ashes of the fæces of animals. No picromel, nor choleic acid, nor any of the more abundant constituents of bile have been the evening passing across the road and comdetected in fæcal matter. It is not for one moment imagined that the bile is absorbed as | cart, the driver of which did not observe her. bile, nor should we mistake the colouring On my seeing her, a few minutes afterwards. matter of bile for bile itself. It is the fluid compounds resulting from the admixture of bile with the chyme or with the contents of ascertained to be oblique and near the centre the alimentary canal which are absorbed. Although, after tying the ductus choledochus, a fluid somewhat resembling chyle is found in in bed, and the limb encased in pillows, so as the lacteal system, there is every reason to to form a double-inclined plane. On the next

in the carnivora. At the same time these | believe that it is not perfect chyle. Even were there perform all the changes a tributed to its The quantity of bile secreted by man ac- admixture with the products of the food, by

If, then, the bile be a true native soap, if its alkali be soda, if it be secreted into the alimentary canal in large quantities, if it fluid be again "drunk up" from the alimentary and fæcal matters before they arrive at more correct in many important particulars, According to the opinions which formerly precently been taught in our medical schools, and this importance will be more than ever apparent, if Liebig's theory of the use of the elements of the bile during their ulterior circulation should be confirmed.

FRACTURE OF THE FEMUR AT EIGHTY-NINE YEARS OF AGE.

To the Editor .- Sir: Allow me to put on of a substance similar to bile. Supposing this record the following instance, exhibiting the to be bile, it will not account for more than vis medicatrix natura favorably developed in the successful and speedy termination of mitted by physiologists to be secreted by the fracture of the os femoris in a female subject of the great age of eighty-nine years :-

Sept. 10, 1842. Mrs. F., a meagre person, of temperate and regular habits, sustained a fracture of the left femur while, in the dusk of ing in contact with a horse and light baker's the nature of the injury was apparent. She was removed to her house, and the fracture of the bone.

Apparatus not being at hand she was placed

morning, September 11th, the fractured por- which he had contracted two years previously. tremity comfortably secured, and thus it remained without a single untoward or bad

bone. It is hoped its relation may call forth was omitted. reports of any similar instances occurring in and correspondents.

I am, Sir, your obedient servant, W. F. HENDERSON, M D., Surgeon. Clapham-rise, Jan. 5, 1843.

VAGINAL DISCHARGE IN CHILDREN.

IRON IN GLEET, ABSCESS AND DEBILITY. To the Editor .- Sir: In answer to the incase which readily yielded to calomel, rhu. nate leucorrhea? barb, and cinnamon, given every morning, the decoction of oak-bark and the tincture of

noticing this subject, advises the creosote than that ordered by Mr. Tyson? I am, Sir, injection for the cure of gleets, and as these yours obediently, cases are of some moment, perhaps I may be allowed to trouble you with the following:-About six months since J. H, etat. 25, presenting a pale, pasty aspect, applied to me in bate, Dr. Chowne mentioned an instance in consequence of suffering from a urethral dis- which habitual constipation in an hysterical

tions were placed in exact apposition, after He had been under the care of three London considerable difficulty in retaining them in situ | surgeons of some note; the ordinary injections The limb was put on the double-inclined plane had been used, and both the disulphate of formed by Macintyre's apparatus, with a long quina and the steel mixture had been adminsplint outside, and another, shorter, inside the istered, without his experiencing much relief. thigh, each well padded. Thus was the ex. The discharge had persisted for nearly two years, was of a yellowish-white colour, and did not exceed more than a tea-spoonful duroccurrence of consequence until October the ing the day. He was depressed in spirits, and 26th, the forty fourth day, when the apparatus "would give anything if he could only get rid was removed, and the fractured part found to of it," as he was desirous of being married. I be firmly united, the tumour of callus being ordered him-P. Disulphate of quina, one small, but sufficient to show the perfection of scruple; citric acid, eighteen grains; best the cure and to allow motion of the limb in orange wine, twenty-six ounces. Make a every direction. In a few days, by appropriate mixture, of which three tablespoonfuls are to treatment, she was able to put her foot to the be taken three times a day, with aloetic myrrh ground, and even step out, bearing the weight pill every other morning. This treatment was of the body. She has long ago been able to continued for a fortnight, and a cold silver move without the aid of a stick, has been out catheter was passed every alternate day, but of doors, and perfectly competent to take ex- it appeared to exert no decided influence over ercise on foot when the weather permits, no deformity existing in the parts.

his disease. I then directed him to take six drops of Mr. Tyson's "liq. ferri oxysulphatis," This case is placed before the surgical twice a day, in a wine-glassful of water, and world, particularly the junior portion, as a prescribed the following injection, to be emreason for not being dispirited in prognosti- ployed thrice daily :- R. Iodide of iron, four cating osseous union in subjects far advanced grains; distilled water, eight ownees. The in life, as in the present instance, at first, it injection produced some pain, and at first apwas pronounced to be not at all likely that any peared to increase the discharge, but in five other than cartilaginous union would take days it had entirely ceased, and I believe has place, and that therefore Mrs. F. would ter- never returned. The internal exhibition of minate her days as a cripple, from want of the iron was persevered in for a month, when, power in the system to unite the fractured owing to his being attacked with catarrh, it

A few weeks ago a man was admitted into the practice of some of your numerous readers the Casualty Hospital of this town who was afflicted with an old sinuous abscess, which was situated on the posterior region of the right thigh. It was laid open, pledgets of lint, dipped in a solution of iodide of iron, were inserted into the wound, and a poultice was applied. Free suppuration was speedily induced, its cavity became completely obliterated, and he was dismissed cured. In this quiry of " C." (LANCET, Dec. 24,) relative to instance the iodide of iron was also given inthe treatment of vaginal discharge in children, ternally. Might not a weak solution of this I beg to inform him that I have lately seen a preparation be tried as an injection in obsti-

With regard to the "liq. ferri oxysulphatis," employing, as an external application, a lotion I may mention that I have taken it myself, composed of spirits and lime-water, and which combined with the infusion of calumba and was afterwards changed for one made with wine of aloes, for the relief of debility, &c., caused by tropical dysentery, and I fancy that I have derived benefit from it. Should it not I observe that Dr. Allnatt (page 232,) in be prepared with a less quantity of nitric acid T. C. LEWIS. Wolverhampton, January 10, 1843.

OBSTINATE CONSTIPATION. -In a recent decharge, the effect, he believed, of a gonorrhoa girl aged fourteen years, gave way before the

internal use of croton oil, and injections of the | 4. Dr. Maclean's first case is one of diffuse way of producing an action of the bowels was to apply seven or eight leeches to the abdo. when all other means had been of no avail. Mr. Snow advocated the use of enemata of warm water in cases of obstinate constipation, the continual use of violent purgatives being effected a cure as prussic acid? liable to be followed by inflammatory mischief.

DR. MACLEAN'S ALLEGED CURES OF

To the Editor of THE LANCET.

Sir,-Dr. Maclean, of Thurso, communi. cated in THE LANCET for the 7th of January, page 266, seven cases of diseased eyes, treat. ed by the vapor of prussic acid. The doctor's statement being very short, several important

particulars are overlooked in it.

1. It would be desirable to know the strength of the acid used by Dr. Maclean. He calls it merely "strong prussic acid" Now, it is well known that it is very dangerous to work with strong prussic acid, as the inhalation of its vapor proves immediately fatal; I presume, therefore, the doctor's acid was dilute. Even dilute prussic acid soon decomposes, unless certain chemical means are taken to prevent anxious to ascertain this, as it has been susthis. Did the doctor employ any means to prevent the decomposition of the acid he employed? Did he use the same acid, day after day, to any, or to all, of his seven patients? If he did, and if he employed no chemical means to prevent the decomposition of his acid, I am afraid that, after a day or two, he must have been using a substance totally effete, and just as good as so much ditch-

2. What does the doctor mean by saying that "if the results prove permanent the prussic acid must occupy a very high place amongst our remedial agents?" He relates cases in which opacities of the cornea cleared, a closed pupil opened, a staphylomatous eye became nearly normal, and a capsular cataract disappeared. It seems quite unnecessary to employ any such if as that premised by the doctor. Such results following the use of prussic acid. even for a day, or an hour, the remedy may at once assume a very high place, indeed, in the materia medica.

3. In the seven cases related by Dr. Mac. lean was prussic acid trusted to, alone, after once commencing it, or were other remedies in use at the same time? This is a point of great importance, which the doctor has omit. size of a needle-point to four lines in diameter, ted to mention.

same remedy. She had frequently gone a opacity of the cornea after scrofulous opthalweek without a motion; sometimes a fort- mia, a state of disease which tends to disperse night, and, on one occasion, a month. In the of itself, but which may be assisted by almost same debate Dr. Reid stated that he had any stimulant applied to the eye. May I ask found, in a case of obstinate constipation in a whether Dr. Maclean supposes prussic acid young hysterical girl, that the most effectual vapour to possess any specific power of dispersing specks of the cornea; and, as it is evident from the patient being able to open men. This plan was found to be successful the eye over the acid, that the intolerance of light had already subsided, whether vinum opii, solution of nitrate of silver, or any other of the usual stimulants, was not as likely to have

5. The second case purports to be one of rheumatic opthalmia in a child twelve years old. The occurrence of rheumatic opthalmia EYE DISEASES WITH PRUSSIC ACID. in so young a subject is extremely rare, so rare, indeed, as to excite a doubt whether the case might not be rather one of scrofulus opthalmia, especially when we are told that intolerance of light was a principal symptom. The doctor tells us that the prussic acid rendered the pain trifling for the rest of the day. If it was a case of rheumatic opthalmia, was not this of little value, as it is during the night. and not during the day, that the pain is felt in that disease

6. It would be of great importance to know whether in the third case, one of albugo of each cornea, the use of the acid caused any dilatation of the pupils, so as to allow the patient to see past the specks. I am the more pec ed that, under the pretence of using prussic acid, preparations are sometimes employed which possess the power of dilating the pupil, such as alcoholic or ethereal solutions of atro-

7. Dr. Maclean's fourth case is one of staphyloma of one eye, and occlusion of the pupil by lymph in the other; and here, it must be confessed, the doctor puts our faith to rather

a severe test.

In the centre of the closed pupil there was an opening which would admit the point of a needle. In three months the effused lymph disappeared, and the pupil expanded to about four lines in diameter, under the influence of the acid. Was not this degree of dilatation rather too much? The average diameter of the pupil is about one tenth of an inch, and that of the cornea four tenths and a half. To dilate the pupil to four-tenths of an inch is excessive, and I think the doctor should beware of carrying the acid so far in other cases of occlusion of the pupil which may come in his way. So great a dilatation, leaving a rim of iris no broader than one-twentieth of an inch, is apt of itself to cause a great confusion of sight. Was the pupil, dilated from the perfectly regular, and devoid of tags to the

capsule? doctor.

A staphyloma is an union of the iris to an opake and projecting cornea, or rather to an opake and projecting cicatrix. From the beginning of the world till the time of Dr. Maclean, there never was an instance of a staphyloma cured by any sort of medical application. The iris of a staphylomatous eye has never, I shall venture to say, been known to separate from the opake and projecting cicatrix of the cornea, and the cornea to become transparent. This, however, has been effected by the doeter

prussic acid?

means of cure as to the latter?

ract, having its seat in the capsule?

10. The seventh case is merely one of chrowarm water, had any of these been tried.

the queries I have taken the liberty of putting. In the meantime, as the author of certain que- I am, Sir, your obedient servant, ries formerly published in the THE LANCET, regarding the effects of prussic acid on the Lostwithiel, Jan. 9, 1843.

This is a point omitted by the organs of vision, I beg leave to thank Dr. Maclean for his communication, and am, &c. Aberdeen, Jan. 11, 1843. Borussus.

> USE OF THE NITRATE OF SILVER IN THE SUBDUCTION OF ERYTHEMA.

To the Editor of THE LANCET.

Sir,-A healthy boy met with an accident by which the right cheek was lacerated from the inner canthus of the eye to below the angle of the mouth. The parts were brought toge. ther by adhesive straps, but contact could not with the aid of prussic acid, but is it not a fact be very well preserved immediately subjacent of that damning sort which proves too much, to the eye itself. This, however, was effected, and might vindicate, in the minds of those and union facilitated, by placing underneath who do not know Dr. Maclean, the suspicion the plaster a small piece of moistened cardthat the whole of the cases in The LANCET for paper. All went on well for about a week, 7th January, were a tissue of falsehoods, con- when the lower lid, on the under edge of which cocted in the region of Russell-square, London? the card-paper necessarily pressed, became
It is a law of evidence, that when extraor-erythematic. The paper was removed, but dinary events, such as were never before still the swelling remained. The lid was known to happen, are asserted to have taken moistened with water, and a stick of nitrate place, they must be proven by the testimony of silver was passed freely over every part of of more than one competent witness. I would it without producing any pain, by which the ask, then, what medical man of education in swelling was transferred from the lower to the Thurso saw the cure of the closed pupil, and upper lid. The nitrate of silver was flagain of the staphylonatous eye, accomplished in used, which caused considerable pain, and the this case by Dr. Maclean, with the aid of inflammation was subdued. My little patient was living with his parents, several miles from 8. In Dr. Maclean's fifth case, the motions | my residence, and it was on visiting him that of the iris were natural, but from over-exertion I found, rather unexpectedly, that the inflamof the eyes there was pain in the orbits, intol- mation was unsubdued, notwithstanding the erance of light, and some obscurity of vision. card-paper had been removed. Leeches might These symptoms subsided under rest and the have been advantageously applied in ordinary use of the acid. May not as much of the cases, but in this instance they would nave inbenefit be attributable to the former of these terfered with my treatment of the wound, and, besides they could not have been procured 9. In Dr. Maclean's sixth case, a woman is without considerable loss of time. The tincaffected with capsular cataract for three or ture of iodine, also, I have no doubt, would four years, prussic acid vapour is used, and have acted specifically, but I had none with the "diseased structure" is absorbed. Does me, and as there was the greatest necessity the doctor mean that the opake capsule was for prompt treatment, I had recourse to the absorbed? Might it not have been merely a lunar caustic, which I had occasion to apply deposition of lymph on the surface of the cap. to the wound. A few days after this I met sule, stimulated to absorption by the acid va- with Dr. Hocken's excellent paper, describing pour? Was this case seen by any other media a new plan of treating strumous conjunctivical man, and recognised as one of true cata- tis (page 382), which he appears to have been taught by Mr. Wormald, at St. Bartholomew's Hospital, but the latter gentleman repudiates nic opthalmia, which subsides under the use the idea of its being new. Probably the apof the acid, and might, possibly, have done so plication of the nitrate of silver in the treatunder the influence of the vapour of turpen- ment of local inflammation in general, originatine, ammonia, laudanum, or even of mere ted with Mr. Higginbottom. At all events I believe that his excellent treatise on the sub-I have written these remarks in no unfriend- ject has contributed towards its being more ly spirit towards Dr. Maelean, but from a sin. extensively used. Dr. Hocken's paper, howcere desire to elicit the truth. I trust the ever, affords a striking illustration of the imdoctor will be so good as to give an answer to portance of the remedy, for the publication of which I feel much indebted to that gentleman.

RICHARD LANYON, M.D., F.A.S.

the controversy "on the anatomy and physio. (not by waving my hand before his eyes,) and logy of the spleen," by the publication of Mr. have over and over again succeeded in creat-Stevens's paper in The LANCET of January ing in my patients a fortitude and resolution 14th (page 281,) allow me to notice one grand | under which they have never murmured during "flaw" in that gentleman's demonstration, the operation. I cannot help thinking that &c. I mean the absence of any analysis, this is the only way in which such an effect either sensual or chemical, or of any proof can be produced, and from this you may infer whatever that the splenic vein contains arte- what my opinion is of mesmerism. I am, sir, rial blood. I believe that I was the first to your most obedient servant,

call attention to the fact that the splenic vein (so called) did not contain venous blood; I now equally object that it does not contain arterial blood, which objection, if well founded (as, from mere sensual analysis, I believe it STATISTICS OF CARCINOMA AND to be,) is at once fatal to Mr. Stevens's theory, and may save the shedding of some ink. I

am, sir, your obedient servant, FRANCIS EAGLE. Kingsland road, Jan. 15, 1843.

FORTITUDE OF THE MIND DURING OPERATIONS.

To the Editor of THE LANCET.

Sir,-That the fortitude which is necessary to enable a patient to bear a surgical operation without making any exclamations of suffering can be produced through the mind only, without having recourse either to mesmerism or opium, the following instances, among many

others that I could adduce, sufficiently testify. When the late gallant officer, Sir Thos. B. time the amputation was being performed. A monument to the brave admiral is erected in the burial ground of this institution, and in the same ground is one to a seaman of the Leviathan, who was wounded in the battle of Trafalgar, and of whom the epitaph states that "In this he shares but in common with many others, the praise and the glory of hav. ing died in defence of his country; but he farther signalised himself by a display of fortitude which is not surpassed in the records of naval intrepidity. The severity of his wound required the amputation of his left arm."-Some part of the epitaph is here worn away by time, but it goes on to state that "white the amputation was performing he was exultingly singing the patriotic song of 'Rule Britannia." Another seaman in this hospital, who was undergoing amputation of his leg without a murmur, jocosely told the surgeon, "Avast a little till I take a pinch of snuff," coolly took the box out of his waistcoat pocket, and after having ceremoniously offered a pinch to the assistant surgeon, took one himself, and the operation was finished without his having uttered a moan! In neither of these cases was there any mesmerism, and if ever I have hospital in consequence of a return of the diswanted to tranquillise a man who was about ease.

CONTENTS OF THE SPLENIC VEIN. | to undergo a painful operation, I have done it To the Editor .- Sir: On the re-opening of by working upon his mind through his ears

R. Dobson, Inspector of Hospitals and Fleets. Greenwich Hospital, Jan. 9, 1843.

OPERATIONS FOR ITS CURE, &c.

During the five years from 1836 to 1840 inclusive, there were performed at the Hotel Dieu, 95 operations for the excision of tumors in the female breast, and 29 operations for removal of testicles. Of the subjects of operation on the breast, 75 recovered so as to be discharged from the hospital; * and 20, or 1 in 42 of the whole, died. Of the subjects of castration, 24 were subsequently discharged: and 5, or 1 in 42 of the entire number, died.

Organic alteration of the mammary gland is certainly much more frequest than degene. rescence of the testiele; but the above comparative view must not be considered as indicating the relative frequency of cancer in the different sexes. From the more frequent state Thompson, Bart., lost his leg in action, it is of excitement and liability to disease into well known that he was singing during the which the female generative system is brought, by menstruation, the pregnant and puerperal states, &c., various fibrous, fatty, and other tumours originate in the mammæ, not involving their glands, and which the patients readily suffer to be removed by excision. On the other hand, castration is never resorted to until the cancerous nature of the degenerescence in the testicle is decided. Of the above 20 female patients who died in the hospital, none succumbed in the first five days after the operation; but 4 between the 5th and the 10th days; 7 between the 10th and 20th: 4 between the 20th and 30th, and 5 between the first and second months after the operation .-Of the five patients who died after castration. death took place in three instances during the first six days; in one on the 9th day; and in 1 two months after the operation. Operations for disease in the breast were performed on only 4 male subjects; of the remaining 91 female subjects, 72 were married, or widowed. and 19 unmarried (girls.) Of the same 91,

^{*} The term discharged cured, would not be absolutely correct, as the patients operated on for mammary cancer frequently re-entered the

25 were between the ages of 18 and 40; 43 tumour of a cancero-fungoid nature grew from mucous membrane. - Gazette Medicale.

BISULPHURET OF CARBON.-Mr. J. C. At. kinson informs us that Dr. Otto, professor of given the bisulphuret of carbon a trial in the following manner:-He prescribes four drops of a mixture composed of one part of the bisulphuret of carbon and two parts of highly rectified spirits, to be taken every two hours. He also directs the affected parts to be rubbed with an embrecation consisting of one part of the bisulphuret, and two parts of olive oil --The cases in which he has mostly administered the above remedy are rheumatism, enlarged glands, &c., and he ordinarily effected a cure in eight or fifteen days. I have (says Mr. A) applied it in one patient suffering from neuralgic affection of the facial nerves, with decided benefit, and I leave my professional brethren to give this new chemical substance a trial .-Romney-terrace, Westminster, Jan. 9th.

THE DIAGNOSIS IN SOME OBSCURE AFFEC-TIONS OF THE UTERUS .- M. Pereyra reports, in the "Journ. de Med. de Bordeaux," the uterus was found occupying its natural situa. obedient servant, tion, though its neck was elongated, and a New Bond street, Jan. 3, 1843.

between 40 and 50; and 23 between 50 and the inferior extremity of the ostince. This 70 years. And of the 20 who died, two be- growth was probably expelled beyond the longed to the first of these periods, 9 to the vulva when, by its augmenting size, it had second, and 9 to the third. It would thence dilated the vagina to the utmost practicable result, that while the critical period of female extent. The "Gazette Medicale," Nov. 26, life (say from 40 to 50 years of age) favours which quotes the above case, remarks, that most the development of diseases of the breast, the difficulty of distinguishing diseased growths the mortality is greatest in the more advanced from retroversion of the uterus is greater than and least in the earlier periods. A different might at first be supposed, and that the only result obtains as to diseases of the testicle. way of attaining a correct diagnosis is to Of the 29 cases above cited, 20 occurred be- ascertain if the uterus be or not in its normal tween the ages of 18 and 40, and 9 between situation. Two methods are proposed for this 40 and 70 years. Here the period of virility, end; either the fore finger is introduced into in which the organ is in the state of its greatest the rectum, or a male catheter into the bladder, activity, is that in which it appears to be most by the extremity of which instrument an exliable to degenerescence. The period of youth ploratory process is conducted. The latter predisposes to carcinoma of the eye; those of mode, treated of by Malgaigne (These de puberty and mature age to disease of the tes- Concours, 1833,) requires, of course, some ticle; and the decline of life to cancer of the tact, but to the experienced surgeon it will give the more certain indication. In the case cited, indeed, a precise diagnosis was not absolutely necessary; for, whether fungus or retroverted uterus, as the tumour was manimedicine in the University of Copenhagen, has festly carcinomatous, its peduncle should have been tied, or its excision immediately effected.

To the Editor.—It is common for children to force rings on their fingers, and when they are of any metal that can be cut, or filed, they are easily removed; but there are at present an immense number of case hardened steel rings, such as are used for common silk purses. which no file can touch, and the strongest nippers crumble before them. At about two o'clock this morning a lady brought to me her child, a little girl, five years old, who, unknown to the nurse, had forced one of these rings on the forefinger of the right hand, and told no one of it until the finger had become much swollen, and the ring deeply imbedded. The surgeon of the family tried all means to remove it, and then advised that a watchmaker should be applied to. When the child was brought to me I found that the hardest file case of a woman, fifty years of age, who, af. | could make no impression on the ring, which ter having for a considerable time been afflict. was more than a quarter of an inch thick, and ed with all the symptoms of uterine cancer, therefore, the only way of removing it was to suddenly felt pass through and out of the va. break it. This I accomplished by a simple gina a bulky tumour, which it was found im. instrument, called a clockmaker's hand vice, possible to reduce. The tumour was of a the chops of which are narrow enough to go yielding consistence, and moistened with a between any of the finger joints. The faces sanguinelent fluid: it was not painful on are rough (toothed) to prevent slipping. By pressure. The finger being introduced in. means of the screw the chops may be closed to the vagina was soon arrested by a cul de slowly, and just enough to break the ring, sac, and several surgeons, who were now called | which in this case yielded to the first pressure. into consultation, considered the case one of I may add that this method is only applicable retroversion of the uterus. While, however, or necessary when the ring is quite hard. If they were deliberating about the remedial any elasticity be discovered, it proves that the means to be employed the tumour sphacelated, steel is tempered (softened) and may, thereand the patient died. At the autopsy, the fore, be cut by a hard file. I am, sir, your ADAM THOMSON.

THE LANCET.

London, Saturday, January 21, 1843.

If the objects which it was intended to accomplish by the enactment of the 6th and 7th of WILLIAM IV. cap 89, were better under stood, we cannot believe that the differences which now exist between Coroners and medical practitioners, in relation to the working of that Act of Parliament, would be of long duration. That the law is most grossly violated and abused by many coroners we shall not attempt to deny. At the same time justice demands from us the acknowledgment that vast numbers of medical practitioners are unjust in their demands relative to the provisions of

Previously to the enactment of the statute in question two pressing evils, of enormous magnitude, were constantly operating to the prejudice of medical pra titioners. First, they were summoned unnecessarily at nearly all the inquests held by coroners; and, secondly, there existed no law to ensure to them remuneration for their services, or to reimburse them for their expenses in attending

the court.

It was intended effectually to remove there grievances by the enactment of the statute commonly called the MEDICAL WITNESSES' Act, both by preventing medical practitioners from being unnecessarily summoned to attend inquests, and by paying them an adequate remuneration when their services were really required in the coroner's court.

It is difficult to determine which of the objects in question was the most important in relation to inquests, and to ascertain which of the two, the profession, as a body, most value. The annoyance to which medical practitioners were subjected prior to the operation of the law in question, by being unnecessarily summoned to attend inquests-sometimes at a great distance from the residence of the practitioner-and then often being detained for hours together, was one of no inconsiderable magnitude. Complaints on the subject from surgeons in general practice were forwarded to us from all portions of the empire.

Again, it was felt to be a considerable hardship that after a surgeon had attended at an inquest, and had furnished the only evidence that could enable the jury to take a correct view of the case, and return a verdict in consistence with reason and justice, he should be denied all remuneration for his really valnable services.

The object, then, which the framers of the Medical Witnesses' Act had in view-and we repeat our statement of them because they should not be mistaken-were, first, to prevent medical practitioners from being unnecessari-

ly summoned at inquests, and, secondly, to secure the payment to them of a sufficient remuneration when their presence as witnesses was really required; and it cannot, we think, be denied, with truth, that the attainment of two such advantages was a matter of importance to the profession.

We regret, then, to observe that in two respects there has existed, on the part of coroners and medical practitioners, a strong disposition to abuse the law; and, in both instances, an attempt has been made to extend the operation of the Act beyond the motives of the framers of the law, and the provisions which the law itself distinctly em-

First, many coroners, instead of not summoning medical practitioners unnecessarily, have extended their construction of the law so far as to resolve not to summon them at all; and, on the other hand, medical practitioners often appear to consider that they ought to be summoned at every inquest, and to receive, on each occasion, the highest fee which the stat-

The complaint that is here alleged against numerous coroners certainly does not apply to the whole of those officers; for evidence has been offered to us, with respect to many of them, which proves but too clearly that they summon medical practitioners most unnecessarily, and thus, imprudently, if not fraudulently, dispose of the public funds which are committed to their charge. If this abuse should be much extended we predict that the MEDICAL WITNESSES' ACT will not long form one of our unrepealed statutes. A return from some of the counties, showing the amount of money which has been paid by coroners under the operation of that law would astonish the public. Such a practice is wholly indefensible, and cannot be too strongly condemned. It is degrading and disgraceful to all the parties concerned in it. We have repeatedly been informed that it is a practice with some coroners, when they receive notices which demand inquests, from medical practitioners, to reward those practitioners by summoning them to the inquests, and paying them one or other of the fees named in the Act. We hesitate not to say that this practice is exceedingly dishonest, and is a scandalous mal-appropriation of the county funds. The effect of such a system, too, on the minds of jurymen is most injurious, and operates strongly against the production, the utility, and the value of medical testimony in those cases where it is really required to enable the court to understand the subject of investigation. Juries are not less sensible to what is passing under their immediate observation than are other persons; and by constantly seeing medical practitioners paid at inquests, when their evidence could be of no possible

utility, they become prejudiced against medi- | alkaline solutions, before being washed in pure cal testimony, and are disposed to reject it al- water, and dried, beaten, cut, and carded. together. Such conduct on the part of coroners admits of no defence. A sense of justice, REMARKABLE MALFORMATION OF however, requires that we should not be less stern in our condemnation of the conduct of A RARE instance of imperfect development

We quit the subject, at present, well knowbrethren require no further information or explanation with reference to it. They under- Hopitaux, Suppl., Dec. 1842. stand the question fully.

THE HEART.

those medical practitioners who are continually of this organ occurred in Paris in April last. censuring coroners for not summoning them to A female child, four months old, was depositattend the inquests. The demand is, evidently, ed at the Hopital des Enfans Trouves, of not for the summons, but for the fee. If our whom it was impossible to obtain any previmedical brethren would bestow a few moments ous information. The child was seized with of their time in reflecting dispassionately on dyspnæa several times in the course of the this subject, they would, we are quite certain, succeeding day, the fits of which were acentertain other opinions respecting it. What, companied with a blueish tinging of all the we would ask of them, is said of policemen, surface of the body, and it was accordingly constables, and other persons who force their sent to the infirmary. Here, on the ensuing way into courts of justice, as witnesses, mere- day, it presented general eyanosis; and the ly for the purpose of obtaining the payments tongue, anus, genitals, and adjacent parts, which may have to be made to them in that were of a blackish-violet colour. Asphyxia character? How often are the police officers supervened five or six times in the twenty-four rebuked on that very account! They allege hours. The pulse beat 136 times per minute, that they have heard important statements or and a marked bellows-sound (bruit de soufflet) confessions made by prisoners; that they have, replaced the normal sound in the heart during in fact, seen and heard a variety of things,— its diastole. About ten days afterwards the only to procure such a footing in the witness-child died of dyspnæa. On opening the thobox as will enable them to obtain the cus- rax, nearly all its anterior half was found occutomary payments as witnesses. Such wit- pied by the pericardium; and on laying open nesses! Their testimony is always scouted this, it was seen that the heart consisted of by jurymen, and frequently they receive the only one ventricle and one auricle, the deep smart but deserved reprimands of the presiding sulcus between which was filled with a projudges. The respectable members of our pro. cess of the left lobe of the liver (with, of fession will always guard against being classed | course, a portion of the diaphragm). The auwith such disreputable persons. Nothing can, ricle, which was much larger than the ventriin short, be more repugnant to a sense of justice cle, was nearly spherical, and its sides, which than that an individual should complain that were about an inch (two to three millimetres) he was not summoned to an inquest, when it in thickness, were formed internally by strong is known that his grievance is urged, in reali- columnæ carneæ. At its posterior part the ty, because he is deprived of the payment two venæ cavæ opened into it by a common which he would have received in such a chamouth, or a sort of sinus, apparently a rudiracter! Of what value can that evidence be ment of a right auricle. The pulmonary which such a witness would furnish to the veins terminated in their ordinary manner. court? We really blush at finding that there The ventricle was of a conical shape; its is a single member of our profession who can walls were much thicker on its left than on have exposed himself to such an imputation its right side. Three openings existed in its and such a rebuke. If the fee at the inquest base; the auriculo-ventricular, closed by a were two shillings instead of two guineas, true mitral valve; the aortic opening; and, not a word of complaint would be heard at on the right side of the latter, an opening into the absence of the summons. In this single a cylindrical sac, which seemed to represent fact every dark shade of the case is at once the wanting ventricle, but had no communication with the auricle. The ductus arteriosus was wanting. There was no malformation in ing that the great majority of our professional any of the viscera excepting the heart, nor in any part of the arterial system .- Gaz. des

ULCERS FROM LYING STILL .- A German NEW CHARPIE.—The French Acad. des surgeon has found the following ointment of Sciences was lately presented with a specimen great utility for the ulcerations which infest of charpie manufactured by a new process, and patients who have lain long in an horizontal which it is supposed will possess an advantage posture :- Cocoa-nut oil (beurre de cacas) and over that now in use, by its greater purity. spermaceti, of each an ounce; yellow wax, The thread is successively submitted to the half an ounce; acetate of lead, two drachms. ction of acid chlorine, alkaline, and caustic Mix and keep continually applied.

1843. 12mo, pp. 307.

rious means of physical exploration practised | field of inquiry, while he yields to none in a for the discovery and determination of disea- methodical treatment of his subject. Having ses existing within the cavity of the chest, in a manner equally intelligible to the unproand on the numerous signs that are distinctive fessional and the medical reader, pointed out of the normal and the abnormal conditions of the intimate sympathy between the great nerthe thoracic viscera. The work is divided vous centre and the stomach, &c., and enuinto three parts. In the first the various exa- merated the most striking symptoms manifestminations by inspection, application of the ed in the functional derangement of the latter, hand, mensuration, percussion, auscultation, he states concisely the axioms which guide and succussion, are successively explained, his general treatment of disorders of the and the phenomena detectable by them in digestive organs. This treatment is detailed health and disease are described. The second in a succession of cases, presenting a variety part consists chiefly of a tabular view of the of symptoms, clearly and satisfactorily narraphysical causes, and ordinary seat of morbid ted. The continual occurrence of similar cases signs, and the diseases in which they are se. in practice gives to these a wide interest.parately observed. This table extends over Though for the most part indulging a hearty nearly forty pages, and presents a novel and concurrence in the sentiments of Abernethy, very useful medium for classifying the infor. the author has, throughout his book, eschewmation embodied in the first part; it is follow- ed a bigoted adherence to any unbending sysed by a synopsis of the signs attending each tem of practice, frequently availing himself affection of the lungs, the pleura, and the la- of the experience of his collaborateurs in this rynx- The third part forms a commentary on department of medicine, with honest acknowthe two preceding, wherein the different opin- ledgments of his authorities. Some general ions of authorities on the signs of disease are rules are laid down by Dr. Rowe, towards the canvassed, much practical information being close of his volume, for the preservation of derivable from this portion of the work. Dr. health, which are well worthy the attention Walshe has not neglected to notice a single of non-medical readers. important symptom tending to ensure a correct diagnosis of chest-disease; and he is justified in claiming for his little volume the character of being "the first elementary work in which all the methods of physical examination are considered with the care to which they are severally entitled." He has fully accomplished his promise at the outset to avoid unnecessary disquisitions on acoustic principles, &c., and to exclude discussion upon debateable points from the descriptive portions of his work. We have seldom seen so much useful matter in so small a compass.

On Nervous Diseases originating from Morbid Derangement of the Liver. Stomach, &c., occasioning Low Spirits, Indigestion, and Gout, &c. By GEO. R. Rowe, M. D., F. S. A. Fifth Edition, enlarged, 1842. London: J. Churchill. 8vo., pp. 171.

This work has reached a fifth edition-at the public to learn what a legally-qualified medical practitioner has to say on a subject of practice in which the quacks generally run away with the profits. The origin of hypo. searches of Drs. Wilson Philip, Paris, J. Johnson, may induce practitioners to have more fre-

The Physical Diagnosis of Diseases of the | Combe, and others, on diet and digestion, are Lungs. By Walter Hayle Walshe, M. pretty well known, but Dr. Rowe, the first D, &c. London: Taylor and Walton, edition of whose work appeared in 1820, claims, with justice, a priority of authorship. This is a most complete treatise on the va- over these and many other writers in this

> Practical Observations in Midwifery, with Cases in illustration. By John Ramsbo-THAM, M. D., &c., 2nd Edition, revised, in one vol. London: S. Highley and J. Churchill. 1842. 8vo. pp. 501.

> A FIRST-RATE production, combining advantages, as a work of instruction and admonition, which only long personal observation and practical experience could supply, compared, improved, and completed by a discriminating study of the labors and discoveries of modern contemporary writers. We shall make one extract from it, and that from the preface, showing the opinion of an authority on a question of particular interest to accouchers :-

"The discovery of the singular effects of the ergot of rye upon the gravid uterus have introduced a new and powerful agency into obstetric practice. I certainly continued for a length of time sceptical as to its active least a proof of some eagerness on the part of power, but I am now ready to acknowledge, and duly to appreciate, its influence. Yet even now I have my doubts, upon a general principle, whether its introduction ought to be hailed as a boon, or reprobated as an evil. chondriac affections in an unhealthy state of I have long been of opinion that officious insome of the chylopoietic viscera forms the terference in the practice of midwifery does chief topic of the treatise, the value of which much mischief, and cannot be too much cenis enhanced by its practical nature. The re. sured. The mere possession of such an agent

WEIGHTS OF CONSUMPTIVE PERSONS.

quent recourse to its exhibition than is abso- and sedatives, internally. The striddulous slowly, I hold that a high degree of responsi- from the commencement of his illness. bility attaches to any attempt to hasten its Examination of the Body Thirty Hours after termination, since such attempts may possibly implicate the mother or her infant in a state of hazard; and it would be a dangerous ax-

ROYAL MEDICAL AND CHIRURGI. CAL SOCIETY.

Tuesday, January 10, 1843. DR. WILLIAMS, President.

Case of Obscure Disease in the Chest. By C. J. GRAHAM TICE, M. D., Assistant Surgeon 8th Reg. of Foot. Communicated by

Sir J. M'GRIGOR, Bart.

THE patient in this case was the quarterspiration; pressure over the liver caused un. tumour on the trachea; and the sudden exeasiness; he had a disagreeable taste in the tinction of life may be accounted for by the mouth, like fried onions. He was treated calcareous mass falling into the right bronwith calomel and purgatives, and lost blood chus, added to the partial obliteration of the from the arm, but with only temporar relief. left. The dyspnæa increased in severity, and he had much cough, and the only easy position in lar to the one detailed in the paper. which he could lie was leaning forward holding both knees. Percussion elicited no mor- tion of the author to the effect that in this inhealthy. Active treatment, consisting of venesection, calomel, antimony, &c., was pur- paper he had thought the case to be one of sued without relief. On the Sth of October chronic pleurisy of the right side, a disease, he was salivated. Up to this time the cough occasionally mistaken for an affection of the had been dry, now there was abundant ex- liver. pectoration of glairy viscid mucus. Notwithstanding the severity of the symptoms, the pulse was little affected. At this time Dr. been narrated, but he could refer to several William Stokes saw the patient, and, after drawings illustrative of the softening of tucareful examination, pronounced the lungs berculous matter in the bronchial glands, and and heart to be healthy. He considered the of its evacuation, and of the discharge of caldisease depending on nervous and spasmodic careous concretions into the trachea. The irritation of the respiratory organs, and advi- signs to be expected in such cases were those med expectorants and sedatives. Soon after this the breathing became stridulous and the glands; dulness on percussion in an intercough laryngæal; there was a distressing scapular region, and sometimes a peculiar sense of choking, and the same feetor of the rhonchus or stridulous respiration at the same breath. No relief followed the treatment spot. This rhonchus was not constant, but adopted, viz., leeches, and extract of belladon. occurred chiefly when mucus accumulated in

lutely necessary, either with a view of saving breathing was now replaced by mucous rale their own time, or under the more specious and a total absence of vesicular breathing on pretext of shortening a woman's sufferings.— the right side, and nearly so on the left. He But if a labour be going on safely, though | died suddenly, shortly after this, six weeks

Death. Both lungs were healthy, save being a little gorged with blood; on separating the right

iom to be established in midwifery, that be- lung, the knife entered a cavity the size of a cause you had the means within your power | pullet's egg, from which a most offensive odour of terminating any given case, therefore you was emitted. It was formed by an abscess in ought to take advantage of those means. The a mass of enlarged bronchial glands at the serious character of officiousness, as well as bifurcation of the trachea, and opening into the imputation of neglect, ought to be equal. the right brenchus. A loose calcareous mass was partially engaged in the lower part of the bronchus, almost wholly obstructing its canal. The mucous membrane of both bronchi, above the ulceration, was marked by a deep blush. A small ulcer was found towards the inner edge of the descending cornu of the thyroid cartilage on the right side. The remains of the suppurative glandular mass lay in the bifurcation of the trachea, pressing on the glandular surface of the esophagus. The author remarks that the appearances on dissection satisfactorily explain the phenomena observed master of the regiment, a man of plethoric during life. The feetid taste in the mouth and nervous temperament, aged 48. On the arose from the abscess opening into the bron-7th of September, 1842, he complained of chial tubes. The sense of suffication, no pain in the left side, slightly affecting the re- doubt, was caused by the pressure of the large

The PRESIDENT had never seen a case simi-

Dr. Forbes did not agree with the observabid sound, and auscultation proved that the stance auscultation was of no service, for it lungs on both sides, as well as the heart, were gave evidence of the sound condition of the heart and lungs. During the reading of the

Dr. C. J. B. WILLIAMS could not call to his recollection any case like that which had just indicative of enlargement of the bronchial na, externally, and calomel, tartar emetic, the tubes, or they became additionally irritated

by catarrhal inflamation; under these circum. (phagia similar to that under which the patient stances, the part pressed on by the enlarged bronchial gland became the first to exhibit the signs of constriction. He had several times diagnosticated disease at the root of the lung by these signs, particularly in children, both with and without disease of the lung. In the to be the seat of active changes, became infilcase of a girl of ten years, a member of a con. trated with earth. This was seen not unfresumptive family, these signs were present, quently in the mesentery, and in different with occasional severe fits of cough; she af-terwards coughed up a small mass of osseous neck. The gradual penetration of a bronchial matter, and the symptoms entirely ceased. He had lately met with several instances in not a very uncommon process; it explained which similar symptoms were produced in the coughing up of calcareous matter. It adults by disease at the root of the lung; in was a curious natural process, and, though some malignant, in others not; and in some of morbid, it was still, in a manner, curative, and these there were also severe asthmatic parox. by no means necessarily productive of harm. ysms from spasms or flux in the bronchi. The Various stages of all the changes alluded to general symptoms in some of these cases were were to be seen in the museum of Guy's Hosso much like those in the history which had pital. Simple hypertrophy of bronchial glands been read, that, hearing there were no signs of was a specific affection, sometimes slight and disease in the chest generally, he (Dr. W.) variable, and dependent on successive colds, was led to expect disease at the root of the or other constitutional disturbances, in all of lung before the account of the dissection was signs must have existed also, but he thought was great, and more uniformly progressive the inter-scapular space was not generally ex. even, perhaps, to destruction of life. Of supplored by auscultation so much as its impor- puration of the bronchial glands Mr. King tance deserved.

Dr.GREGORY could not perceive in what way the disease could be diagnosticated by the ear. This case showed us that bronchial disease might exist, go on to the formation of abscess, to the deposition of bony matter of the size of a shilling, that this might drop into the bronchial tube, without an affection of the lungs, and without the cause of death being suspected.

Dr. CURSHAM said that abscess of the bronchial glands in children might exist without disease of the lungs. Cases were recorded in which there was a deposition of calcareous matter in these glands, but having no communication with the tubes.

Mr. PERRY, some years since, had found in dissecting a person at Bartholomew's, that one of the bronchial glands contained a mass surrounding it. In this case there was no disease of the lungs.

Dr. Appison thought that the dysphagia. which was a prominent symptom in the case this was not found to exist, then he should two mentioned which could give rise to dys. nary form of treatment was adopted, not the

labonred.

Mr. WILKINSON King considered that the case under discussion involved circumstances which were quite independent of each other. Strumous glands, in various situations, ceasing tube by old ossified contents of a gland was which, however, the interval of restorative acread. He could not say that the physical tion is evident; but occasionally hypertrophy could find several cases. He once met with a supposed case of apoplexy in which acute suppuration of the bronchial glands alone was discovered after death.

The President and Dr. Addison entered into a short conversation respecting dysphagia as a symptom of the enlargement of bronchial glands, or of the presence of aneurism of the arch of the aorta. The President related a case in which the most distressing symptom was dysphagia, and yet there was no kind of pressure on the œsophagus.

On the Decrement of Weight in Phthisis .-By ROBERT WILLIAMS, M. D. Physician to St. Thomas's Hospital.

The author states that some years ago he began a series of experiments on possible remedies in phthisis, satisfied that general treatment was of little avail, and that the cure of of phosphate of lime, and without an abscess | the disease must be sought for in a specific remedy. This series embraced preparations of platina, palladium, ormium, tridium, tilanium, chromium, and cerium. He subsequently tried every seed that Messrs. Charlwood, of Covent before the society, had not attracted sufficient Garden, could furnish, and he had previously attention, and that that, combined with the tried every wood, every bark, and every gum other symptoms detailed, would have led him he could obtain. Nothing appeared benefito suspect the presence of an aneurism at cially to influence the disease; the result was the arch of the aorta. If, on examination, as usual, uniformly fatal, but the termination was not accelerated as to time, or aggravated have expected the disease was situated either in the preceding phenomena. The pathologiin the bronchial glands or their neighbour. cal appearances, also, in the cases examined hood. He knew of no other cause but the after death, were the same as when the ordihellebore, in both of which death was so re- other physicians had one or two. markably hastened, that it seemed as if that making these experiments the author deter- been an error in diagnosis. mined on weighing the patients, considering that an increase or decrease of weight would afford a better criterion of amendment, or otherwise, than the fallacious hopes with which nature cheers the individual in this desolating

The numbers weighed were few, perhaps eight, unexpected difficulties having occurred. nated in some cases by the patient leaving the The decrement, however, usually exceeded cluding remarks of the author :- "The large number of substances I have tried as possible ly recommend the adoption of this practice, at least in public hospitals, as an imperative duty. The only inference which I am enabled phthisis, is that it may afford an explanation to the buoyant feelings of the patient, who must necessarily feel his symptoms ameliorated, and his health improved, every few days. It is evidently the measure of the last flickerings of the vital principle, but how the lamp of life is fed is, perhaps, beyond our power of explanation.

The PRESIDENT stated that he could not remember any particular state of the atmocould explain the difference in weights observ. able in these cases.

slightest attempt at reparation was seen in any | bility of consumption, and whether any cured part of the lungs. No injury, however, was cases had come under their personal inspecdone, except in two cases treated with white tion. Dr. Baillie had recorded one case, and

The PRESIDENT had seen one case which he substance, or probably the veratrine it is said suspected to be phthisis recover, but in that to contain, acted as a poison in phthisis. In instance he rather thought there must have

> Mr. CHARLES HAWKINS related a case of phthisis in which change of climate appeared to have arrested and cured the disease.

Dr. C. J. B. WILLIAMS believed that many practitioners present could cite cases like that mentioned by Mr. Hawkins, with the additional and stronger evidence afforded by physical signs. He (Dr. W.) must, therefore, and the experiments being prematurely termi- express his dissent from the dreadful opinion pronounced by the President, that pulmonary hospital. One general law, however, was observed in all, viz. that the loss of weight was progress is neither stayed nor even retarded by not continued but intermittent; or, the patient any mode of treatment. This was not a being weighed weekly, and as nearly as possi- time for bringing forward numbers of facts ble under the same circumstances, showed an which bore on this question; but he would realternate increment and decrement generally fer to the description given by Laennec of of one or more pounds on each alternate week. the cicatrisation of tuberculous cavities, a process the reality of which Dr. Carswell had the increment, and consequently every few stated to be as well established as any fact in days an increasing balance was left against pathological anatomy. Yet this healing of the patient. Several cases were related illus. cavities was only one of the modes by which trative of the law, which the author states phthisical lesions were stayed, or rendered indoes not appear to have been mentioned by nocuous; and he (Dr. W.) believed that many any writer; these, however, our limits will not of those who have long practised auscultation allow us to give. The following are the con- would agree with him in the opinion that tuberculeus disease is fatal by its degree rather than by its kind; and that although the cases remedies for the cure of this fatal disorder has of recovery are very few when compared with assured me that there is no class of substances the deaths, yet they are sufficiently numerous which a prudent physician, beginning with to give a just ground of hope where the signs small doses, and gradually increasing them, of tuberculous disease are limited, and the may not safely make use of in his attempts to constitutional health little impaired. He did cure this or any other equally intractable dis- not connect the improvement of such cases order; and as experiment is the only means with the operations of any single remedy, cerby which medicine can be advanced, I strong- tainly not with any specific remedy, the very idea of which seemed to him chimerical, but rather with favourable circumstances of climate and regimen, and the careful avoidance to deduce from the singular law of the alter- or counteraction of those causes which are nate increment and decrement of weight in now well known to accelerate as well as induce consumptive disease.

> Dr. TRUMAN said that it had been shown that the bones of animals that die of phthisis are much diminished in weight. The alteration in gravity observed in Dr. Williams's cases must have depended on some change in the fluids or soft parts, and was very difficult of explanation.

Dr. WEBSTER alluded to the great mortality sphere, or any other circumstance, which of phthisis, and to the uselessness of specific remedies in the disease.

Mr. Burgess got up to speak, but the noise Dr. Gregory inquired the experience of the made by members leaving the room was so President and others in regard to the cura- great, that what he said could not be heard.

or out of the body, simply from rest; and a Oct, 1842. similar character is shown in a false membrane. He now gives several more figures to exhibit the analogy, in structure, of fibrine DIFFERENCE OF THE PUS-LIKE GLOBULES OF coagulated merely from rest, and fibrinous exudations resulting from inflammation. This structure is made up of fibrils of extreme ganie germs.

lation in fibrine.

and the complete stages of fibrillation, in the in a very delicate and pale envelop. Besides, progress of organization in the fibrine com- in the pus-like globules of the blood of patients

always, in the first instance, forms a round | Sept., 1842. cell, or changes, when it is requisite, the cells into various primary tissues, as they present BIRTH OF A SECOND CHILD TWO themselves in the adult state." (Wagner's Physiology, by Willis, p. 222.)

any satisfactory evidence that the fibrils of me by him about six months ago.

fibrine are changed cells; and, indeed, in many cases the fibrils are formed so quickly after taken in labor at the 7th month of uterogestacoagulation, that their production, according tion. A midwife was in attendance, when, at

THE THEORY OF "CELLS" OPPOSED. to the views of the eminent physiologist just The Structure of Fibrinous Exudations, or quoted, would hardly seem possible; nor False Membranes; Origin of Fibre. - It has have I been able to see that these fibrils been commonly supposed that fibrine exhibits arise from the interior of the blood discs, like an organised appearance only when it has certain fibres delineated in the last ingenious coagulated in contact with the living textures. researches of Dr. Barry," Such are the re-In his Notes and Appendix to "Gerber's An marks of Mr. Gulliver in his "Contributions atomy," Mr. Gulliver has depicted a distinct to Minute Anatomy," in the number of the structure in fibrine which has set, either within "Lond. and Edinb. Philos. Magazine," for

THE BLOOD.

THE BLOOD IN HEALTH FROM THOSE IN DIS-EASE.

Although the pus-like globules which are delicacy and tenacity, and of corpuscles pos- found in the blood of patients who are affected sessing the characters of primary cells, or or- with various severe inflammatory and suppurative diseases, are very like the pale globules Of late years the origin of fibre, as well as now so well known as belonging to healthy of all other tissues, has been ascribed to the blood, it often happens that the former globugrowth of cells; but these observations of Mr. les differ manifestly from the latter. In inflam-Gulliver render it probable that cells are not matory affections the pus-like globules of the essential to the formation of all textures, since blood are generally rather larger, more irreguit would appear that fibrils, which may be the lar in size and form, and sometimes more opake, primordial fibres of certain parts, are formed, than the pale globules of healthy blood; and in a few minutes, by the simple act of coagu- the globules occurring in disease are frequently clustered together very remarkably. They M. Gerber (Gen. Anat., figs. 16-18,) has are sometimes of a reddish color, including delineated what he terms the first, the second, from one to four blood-discs, rarely five or six, posing coagulable lymph; but he does not say laboring under inflammatory disease, the molehow much his drawings are magnified, though cules composing the nucleus are mostly surin some of them a very low power must have rounded, and often are more or less separated, been employed. Others are sufficiently en- by a quantity of minutely granular matter, larged to show the cells from which he says which is either generally less obvious, or even the fibres are formed, and this is precisely the absent, in the pale globules of healthy blood. point on which Mr. Gulliver says that his ob. In a case of great swelling, with purulent deservations are at issue with the views now posit, in the leg of a mare, the pus-like globugenerally entertained concerning the origin les presented an average diameter of 1.2666th of an inch, and were nearly as numerous "All the organic tissues," says Dr. Schwann, as the red discs; while in the blood of a heal-"however different they may be, have one thy mare, examined at the same time, for common principle of development as their comparison, the pus-like globules were by no basis, viz., the formation of cells; that is to means so plentiful, and they almost all ranged say, nature never unites molecules immediate. between 1.3500th and 1-2900th of an inch. ly into a fibre, a tube, and so forth, but she Mr. Gulliver, Lond. and Edin. Phil. Mag.,

MONTHS AFTER THE FIRST.

To the Editor .- Sir : On reading an ac-"How," continues Mr. Gulliver, " is the count of Dr. Jameson's " extraordinary case origin of the fibrils which I have depicted in of twins" last week, it reminded me forcibly so many varieties of fibrine to be reconciled of a similar case which occurred in the pracwith this doctrine? And what is the proof tice of a veteran accoucheur in this neighborthat these fibrils may not be the primordial hood many years since. I send you the facts, fibres of animal textures? I could never see though brief, without comment, as related to

Martha Lowe, in her fifth pregnancy, was

the expiration of a few hours, a little girl was | lourless corpuscules, and set free by the burstsome and severe for a short time, when Mr. at the end of two months, the duties of ac speedily ushered into the world. In the interim of the two births, at the month's end, as is usual, the patient was churched, for safely passing through her first accouchment. The eldest child lived but a few months; the last born is still living, and six months ago resided with her mother, a fine young woman, nearly twenty years of age. I am, Sir, your's most obediently,

J. T. VALE, M.R.C.S.L. Birkenhead, Cheshire, Dec. 31, 1842.

Mode of Formation of Red Globules-Dr. REMAK, of Berlin, has been able to distinguish these bodies in the blood of an embryo chick in the third week of artificial incubation, as well as in the embryo pig an inch in length, in which last he finds they are from four to six times as large as in the full grown animal. In the chick they are of different shapes -rounded, pyriform, and pediculated, or elongated, and with a nucleus at either end, united by a minute prolongation. This last condition has given rise to a notion that the reproduction of the globules takes place by a procedure analogous to fissiparous gene. ration. Dr. Remak had recourse to the following experiment to ascertain in what way the red globules were reproduced, and the facts that he observed throw some light on the process :- A horse was bled for several successive days, as much as 30 lbs. of blood being taken from him on the first day. At that time the red globules were very abundant, while only a few colourless globules were present. Next day the latter were numerous, and mostly enlarged, having in their interior one or more globules of a pale-red colour surrounded by small granules. On the succeeding days these globules deepened in colour, state, had been formed within the larger co- Lutley, R. Rudall, A. Featherstonhaugh,

born. The after-pains were unusually trouble- ing and disappearance of the latter. Similar phenomena presented themselves in similar B.'s aid was requested in order to prescribe for observanions on the blood of the frog and the the pains. She stated at the time that there human subject. In man between the fourth was positively another child in her womb, and and eighth day, after the loss of a large quanthat she should then retain Mr. B. to perform, tity of blood, and notwithstanding the presence of typhoid and inflammatory diseases, coucheur at the birth of the next child. At the reproduction of the red globules goes on this rather novel engagement Mr. B. smiled in the same way as proved by the discovery (not dreaming that she was in earnest), and of a proportionable quantity of the outer films promised to send her an andoyne, which aba- of the colourless globules in the clot. In fact, ted all the pains, and in a short time she was according to Remak, the clot is in a great well, and busily engaged about domestic part composed of these films, and to the quanaffairs, and so continued until exactly the day | tity of them that it contains it owes its relatwo months from the first time that Mr. B. tive softness. M. Remak anticipates obtainwas called in, when, in his presence, another ing further characteristic signs of difference living child, full-grown, of the same sex, was between a clot composed chiefly of these films, and another formed mostly of coagulated fibrine owing to slow coagulation .- Med. Zeitung, No. 27.

> DETERMINATION TO THE SKIN .- A correspondent (Anthropos) writes as follows: -The iodide of potassium possesses the remarkable property of causing determination of diseased action to the skin. In cases or what may be termed "suppressed measles" and "scarlatina," it will frequently induce a healthful reaction under the most desperate circumstan. ces. One or two grains, according to the age of the patient, under twelve years, may be dissolved in a quantity of sugared water, and administered, repeatedly, as an ordinary drink. the whole quantity being given in twenty-four hours, for three or four days. In measles, a small plaster to the chest assists the peculiar action of the iodine. In scarlatina, the compound tincture of iodine, diluted with three or four parts of water, may be frequently applied, by means of a camel-hair brush, to the front and sides of the throat and neck. Milk is injurious during the first two or three days, in cases either of measles or scarlatina. I have not had an opportunity of giving iodine to individuals suffering from small pox, but think it might prove serviceable, especially after the appearance of the eruption, as anticipatory of secondary fever. Let those readers of THE LANCET who doubt the sufficiency or efficacy of so small a quantity of the iodine test it by their practice. Those to whom experience has demonstrated the utter insufficiency of other measures in malignant cases cannot reasonably object.

ROYAL COLLEGE OF SURGEONS IN LONDON.

List of gentlemen admitted members on and, correspondingly, the accompanying gra- Friday, January 13, 1843: H. H. Corbould. nules disappeared. On the fourth day it be- F. D. Howell, J. J. Atkinson, R. E. Davies, came evident that red globules, similar to B. W. Hutchinson, F. O. Barker, H. W. Reythose existing in the blood in an independent nolds, F. J. Burge, T. F. McGauran, R. E.

THE LANCET ADVERTISER.

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