Surgical observations, part the second : containing an account of the disorders of the health in general, and of the digestive organs in particular, which accompany local diseases, and obstruct their cure : observations on diseases of the urethra, particularly of that part which is surrounded by the prostate gland : and observations relative to the treatment of one species of the naevi materni / by John Abernethy, F.R.S., honorary member of the Royal Medical Society of Edinburgh.

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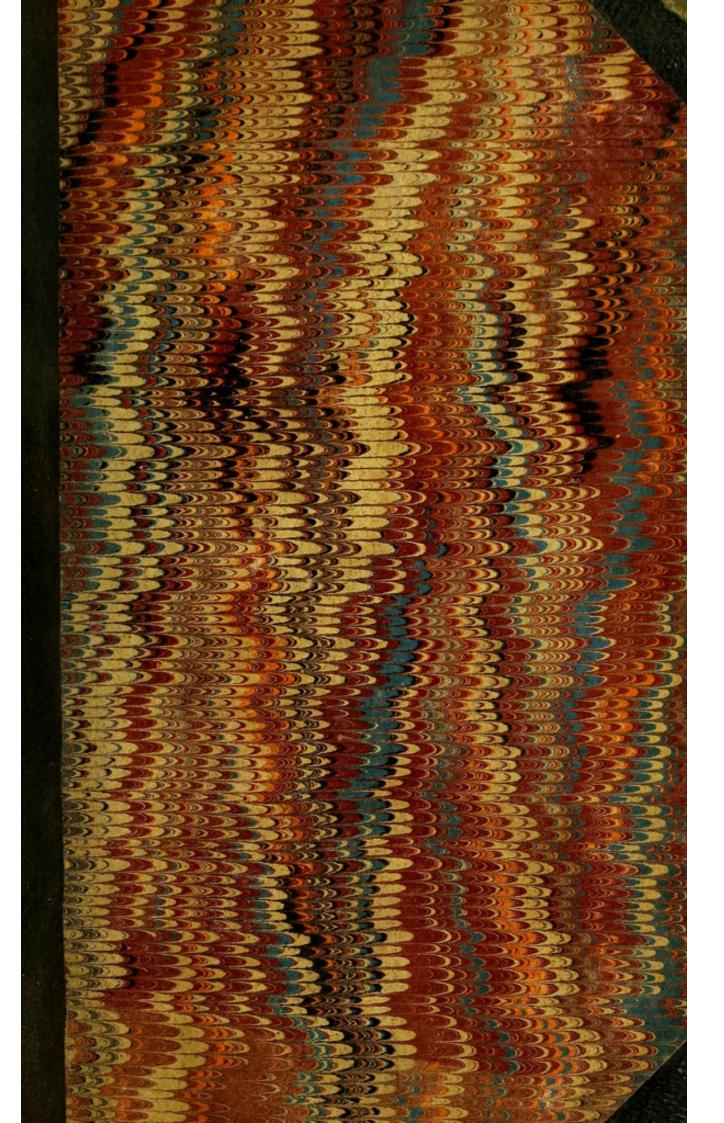
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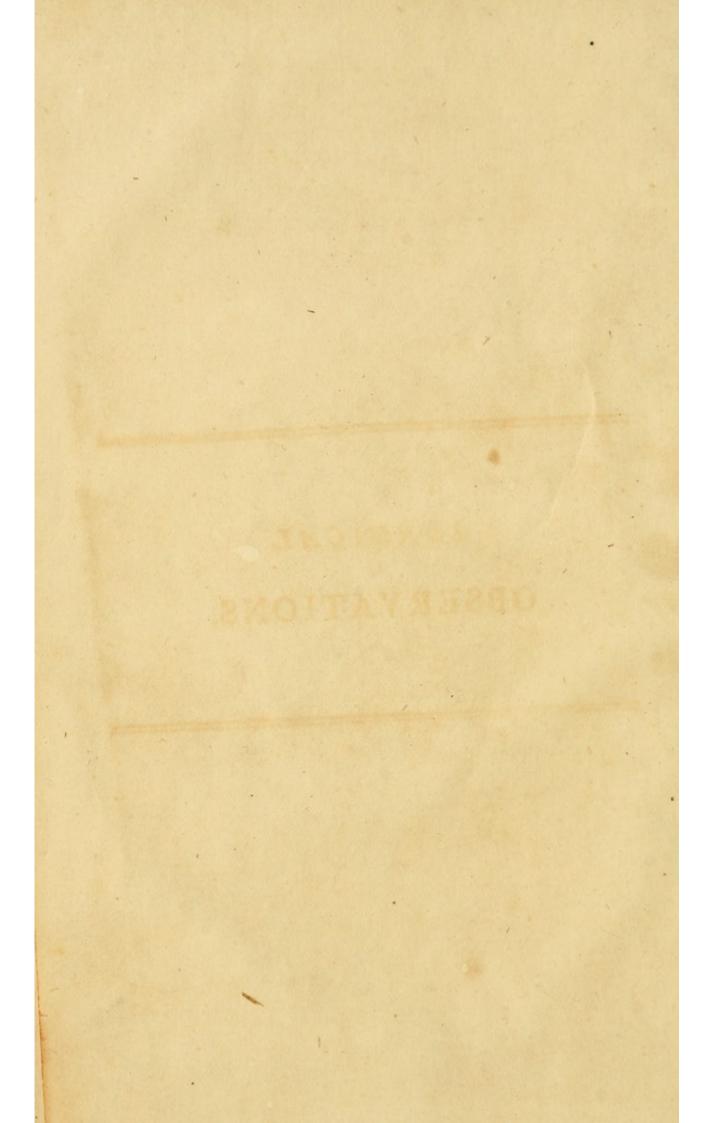






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SURGICAL OBSERVATIONS,

SURGICAL

OBSERVATIONS.

Printed by J. Nichols and Son, Red Lion Passage, Fleet Street.

SURGICAL OBSERVATIONS,

PART THE SECOND :

CONTAINING, AN ACCOUNT OF THE DISORDERS OF THE HEALTH IN GENERAL,

AND OF THE

DIGESTIVE ORGANS IN PARTICULAR, which accompany local diseases, and obstruct their cure :--

OBSERVATIONS ON DISEASES OF THE URETHRA, PARTICULARLY OF THAT PART WHICH IS SURROUNDED BY THE PROSTATE GLAND :--

AND, OBSERVATIONS RELATIVE TO THE TREATMENT OF ONE SPECIES OF THE NÆVI MATERNI.

By JOHN ABERNETHY, F.R.S.

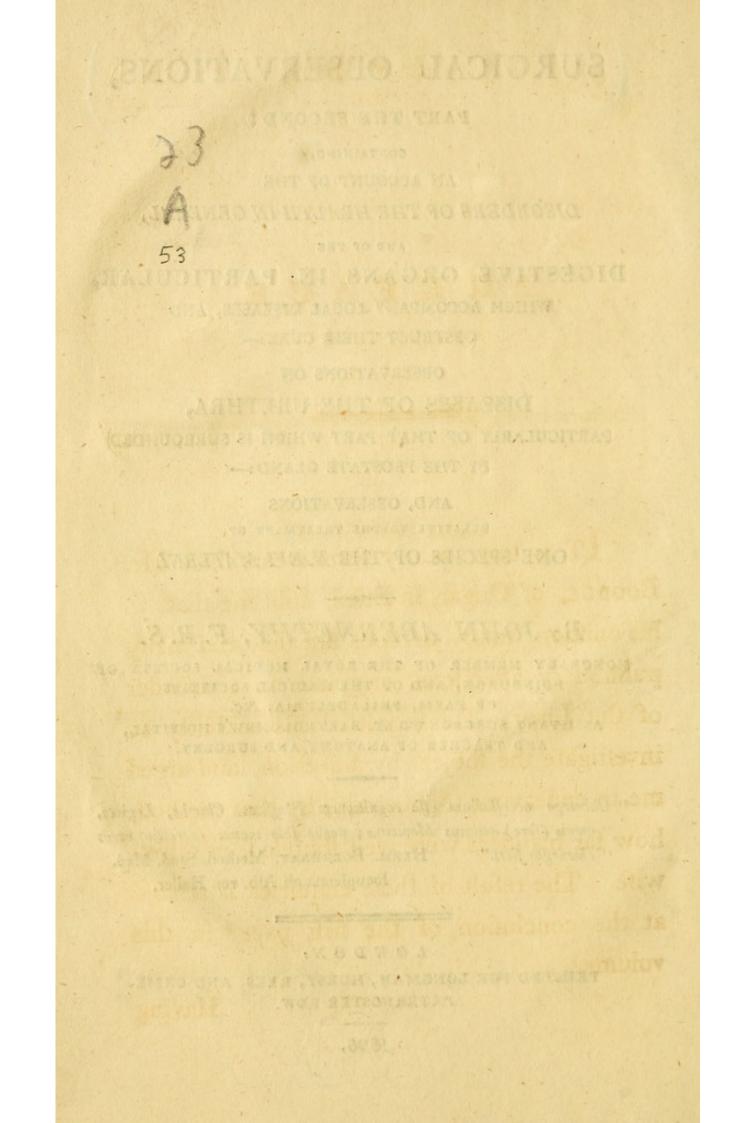
HONORARY MEMBER OF THE ROYAL MEDICAL SOCIETY OF EDINBURGH, AND OF THE MEDICAL SOCIETIES OF PARIS, PHILADELPHIA, &C. ASSISTANT SURGEON TO ST. BARTHOLOMEW'S HOSPITAL, AND TEACHER OF ANATOMY AND SURGERY.

" Chirurgo necessariam esse cognitionem Physices, Chimiæ, Logices, " omnis (fere) ambitus Medicinæ; neque solo manus exercitio veros " chirurgos fieri." HERM. BOERHAAV. Method. Stud. Med. locupletata ab Alb. von Haller.

LONDON:

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IT is now nearly feven years fince Mr. BOODLE, of Ongar, in Effex, told me that, in his opinion, many nervous difeafes, and many pulmonary affections, originate in a diforder of the Liver. He regretted his inability to inveftigate the fubject by diffection, and urged me to endeavour to afcertain, by that method, how far his ideas were well founded, or otherwife. The refult of thefe enquiries is related at the conclusion of the first paper in this volume.

Having

Having thus been led to pay attention to diforders of the digeftive organs, and their connexion with other difeafes, in the relation of caufe or effect; the importance of the inveftigation in which I had engaged gradually increafed in my effimation. I foon perceived that the fubject was of the higheft confequence in the practice of furgery; for local difeafes difturb the functions of the digeftive organs; and, converfely, a deranged flate of those organs, either occurring in confequence of fuch fympathy, or exifting primarily as an original difeafe, materially affects the progress of local complaints. The facts which I have collected, and the obfervations which I have made relative to these subjects, will be found in the fublequent paper. It feems to be the duty of every one to promulgate any ufeful facts which he may poffers, relating to an important fubject, in order to excite general attention to it; by which the knowledge of that fubject is likely to obtain the greatest and most rapid increafe.

increase. Influenced by this confideration, and believing that the facts which I have collected merit attention, I of ubmit them to the judgment of the publick.

It is no more than justice to state, that opinions of a fimilar kind, with refpect to the influence of the hepatic function on various forms of difeafe, have, for fome years paft, been delivered by Dr. CURRY, Phylician to Guy's Hofpital, in his lectures upon the Theory and Practice of Medicine; and that our furprife was mutual, at finding fuch coincidence of fentiment upon a fubject hitherto fo little adverted to. Until Dr. Curry, however, shall lay the refult of his labours before the publick, which he is now preparing to do, it is impoffible to fay how far our ideas may correspond in the detail; but when two perfons begin an investigation with principles nearly fimilar, it is not, perhaps, unreafonable

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to

to expect, that the facts which they collect, and the obfervations which they make, though in different lines of the profession, will be found mutually to support and illustrate each other.

opinions of a fimilar kind, with refpect to the influence of the hepatic fanction on various forms of difeate, have, for fome years paft, been delivered by Dr. Cunny, Phylician to, Guy's Hofpital, in his lectures upon the Theory and Practice of Medicine, and that out furnife was mutual, at finding fich coincidence of fentiment'upon a fuble? hitherto fo Little adverted to. Until In. Curry, however, ilash hav the refult of his labours before the 1 is impolible to my how far our ideas unty correspond in the detail; but when two pertons begin an inveltigation with principles nOarly fimilar, it is not, perimus, unreatonable Mr. Hunter*. The reciprocal operation of <u>considutional difectors upon local differentias</u> obtained fill less attention. To inveltigate more particularly fome parts of these fubjects.

on DISTROUMS

On those Disorders of the System in general, and of the digestive Organs in particular, which accompany local Diseases, and which, whether they be sympathetic or idiopathic, considerably obstruct the Cure of these Diseases.

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conflitution.

AN evil feems to me to have arifen from the artificial division of the healing art into the medical and furgical departments. This division has caused the attention of the phyfician and furgeon to be too exclusively directed to those difeases, which custom has arbitrarily allotted to their care. The effects of local diforders upon the conftitution have, in confequence, been too little attended to; and indeed I know of no book, to which I can refer a furgical fludent for a fatisfactory account of those febrile and nervous affections, which local difease produces, except that of . bofbelle. B Mr.

Mr. Hunter*. The reciprocal operation of conftitutional diforders upon local difeafes has obtained ftill lefs attention. To inveftigate more particularly fome parts of these fubjects, and to bring them forwards to public notice, are the proposed objects of the present paper.

No part of the animal body can be very confiderably difordered, without occafioning a correspondent derangement of the whole conftitution. Such diforder has been confidered by Mr. Hunter as the refult of univerfal fympathy. This confent of the whole constitution with its parts, manifests itself, in particular inflances, by a greater diflurbance of the functions of fome organs than of others; and from this circumstance these difeases have derived the appellations, by which they are commonly diffinguished. If the actions of the fanguiferous fystem be principally difturbed, and the temperature of the body fubject to unnatural variations, the difeafe is termed fever: if the nervous fyftem be chiefly

* Treatife on the Blood, Inflammation, &c:

count of those febrile and mersous affections,

affected,

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affected, a flate of vigilance or of delirium may be produced: convultions and tetanus take place when the mufcular fystem is more particularly difordered. Though the efpecial diforder of particular organs thus gives a character and denomination to the difease, it is sufficiently evident, in every inftance, that the whole conftitution is diffurbed, and that parts of it are chiefly affected, perhaps from unknown circumstances relative to the nervous fystem, or it may be from a predifposition to diforder existing in the parts, which are chiefly affected. It feems to be afcertained, that perfons of particular conftitutions are predifposed to those febrile actions of the fanguiferous fystem, which conftitute the inflammatory fever; that there is a propenfity to convultions in children, and to tetanus in the inhabitants of warm climates.

It may be a fit fubject for enquiry, whether it be poffible for particular organs to become affected otherwife, than through the medium of the nervous fystem in general. Though fome inflances of fympathy are strange, and

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perhaps inexplicable, it muft, I think, be admitted, that the inflammatory fever, the fiate of vigilance and delirium, convultions and tetanus, which arife in confequence of injuries of the limbs, are produced by irritation imparted to the brain, which, by a kind of reflected operation, occasions a greater diforder of fome organs than of others, and thus gives a character and denomination to the difease.

circumflances relative to the nervous fyftem,

That the ftomach and bowels are difordered by injuries and difeates of parts of the body, has been remarked by various perfons; but the fubject has never been extensively furveyed, nor viewed with that accuracy of obfervation, which its high importance merits. It has been observed that sprains of tendinous or ligamentous parts produce fudden ficknefs; and Mr. Hunter has attributed that flyering which is confequent to accidents, and attendant on fome difeases, to the state of the stomach. It is also known that, in fome local injuries from accident or operations, the ftomach has appeared to be the part principally affected. But these remarks have been made only in a curfory permans

curfory manner; and it is my intention to examine the fubject more particularly. The connexion of local difeafes with the ftate of the conftitution in general alfo appears to me either not fufficiently underftood or not duly regarded by the generality of practitioners; and to this fubject I alfo mean to claim their particular attention. I fhall in the first place felect two cafes to shew how the ftomach and bowels, or, to speak yet more extensively, the digestive organs may be affected from local diforder.

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fitution, manifedted by a full and firong pulle,

cut off, and the remainder was returned after

two vellels had been tied. The operation

A healthy gentleman, about twenty-five years of age, was induced to fubmit to an operation for the return of an adherent omental hernia, rather in order to remove the inconvenience and apprehenfion which the diforder occafioned, than from any urgent neceffity; for any increafed exertion in walking or riding produced the defcent of a portion of inteftine behind the thickened omentum, and obliged him to ftop, and replace it : and he

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he frequently could not accomplifh the reduction without confiderable difficulty. The application of truffes had been quite ineffectual in obviating these alarming inconveniencies,

The patient's diet on the day preceding the operation was fcanty, and confifted of fluid fubstances. He took on the morning of the operation fome Epfom falts and manna, which operated twice, and feemed to have emptied his bowels. A portion of the omentum was cut off, and the remainder was returned after two vefiels had been tied. The operation was followed by general diforder of the conftitution, manifested by a full and strong pulse, furred tongue, great anxiety, reftleffnefs, and total want of fleep. The ftomach was particularly affected, being diftended, uneafy on compression, and rejecting every thing that was fwallowed. He was bled largely in the evening, and took faline medicines, but could not be prevailed on to fwallow any thing elfe, except fome toast and water. The fickness had in some degree abated on the next day. A folution of magnefia vitriolata in mint water be was

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was prefcribed in fmall occafional dofes, in order to relieve the diffention of the ftomach, and the unpleafant ftate of the tongue, by procuring fome difcharge from the bowels *. In the courfe of the day he took an ounce of the falts, which was not rejected by the ftomach, yet he could fcarcely be prevailed

* Patients not unfrequently fuffer much after operations from diforder of the ftomach, and fometimes die apparently in confequence of this affection, and not from local mifchief. In these cafes opium fometimes fails to quiet the irritability of the ftomach; and I have always confidered it as a primary object to produce fecretions into the bowels, as I have observed that, if difcharges can be procured per anum, the ftomach becomes tranquil. The magnefia vitriolata diffolved in common mint water or peppermint water, in fmall and repeated dofes, and clyfters, are, I believe, generally directed to produce this effect. It must be acknowledged that it is diforder of the brain that affects the flomach; but the re-action of the latter affection increases and maintains the former, by which it was produced. These cases are exceedingly various with regard to the degree and kind of the diforder; fometimes the brain feems the part chiefly affected, and the nervous energy appears to be greatly impaired. In fuch cafes cordials feem to be the only medicine that can be preferibed with probable benefit. Sometimes a low kind of delirium takes place, with but a flight degree of febrile action. Sometimes the delirium is more violent, and the febrile actions are proportionably increased, attended with subfultus of the mufcles and occasional convulsions. J 2DTSWOL SUC

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upon to take any thing elfe. The tongue was still covered by a thick yellow fur; the fkin was hot and dry, and the pulfe frequent. As there was no particular tendernefs about the hypogaftric region, he was not again bled. The fecond night paffed without the leaft fleep. As the falts had produced no effect, the fame medicine was ordered in an infufion of fenna, with the addition of fome of the tincture, which, by being given in very fmall dofes, was retained. As, however, no effect feemed likely to refult from this medicine, a grain of calomel was given at night, and repeated on the following morning. Still the loathing of food continued. The third night paffed, like the former ones, without the leaft fleep, and with great anxiety. On the next morning, two pills, containing five grains of the pil. colocynth. and the fame quantity of the pil. aloet. cum myrrhâ, were given every fourth hour. These procured no ftool, nor produced any fenfation which inclined the patient to believe that they would operate. Again he paffed a night without fleep; but, towards the morning, he felt his bowels apparently

apparently filling, to use his own expression, and a profuse discharge ensued. A dozen copious, fetid, and black evacuations took place between five and ten o'clock, and he had feveral others in the course of the day; after this, his appetite returned, his tongue became clean, and found and continued fleep fucceeded.

We do not how

That the chylopoietic organs were in this cafe the parts chiefly affected, can fcarcely be questioned. The fickness, the tenderness of the parts in the epigaftric region, the diflike to receive any thing into the ftomach, and the flate of the tongue, all fhew that the ftomach was much difordered. The infufceptibility of the bowels to be operated on by those medicines, which would ordinarily have produced difcharges from them, and the profule evacuation which afterwards enfued, and relieved the patient, fhew that these viscera participated in the affection. The black colour of the difcharges fhews, I think, that the fecretion of the bile was not healthy. It is probable that fome portion of the evacuated matter in mptonik

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10 ON DISORDERS

matter proceeded from the liver, in which cafe it might be justly inferred that this organ was affected in common with the rest of the chylopoietic viscera.

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It may be fuppofed, that the injury done to the omentum might contribute to produce the diforder of thefe organs, rather than of others. We do not, however, find that fuch effects commonly fucceed to fimilar operations. The ill confequences in the prefent cafe were greater than might perhaps have been expected, if it were not known, that an operation performed on a healthy patient is more apt to produce confiderable diforder, than where the conftitution has previoufly fuftained the irritation of a difeafe, for which the operation becomes neceffary.

It is probable alfo that the reftleffnefs and anxiety of the patient were aggravated, if not principally caufed by the ftate of the chylopoietic vifcera; fince the relief which took place in those parts on the renewal of fecretions into them, certainly removed the nervous fymptoms.

fymptoms. That the difcharges were the effect of fecretion is proved by the abfence of alimentary matter in the bowels, in confequence of the action of the purgative adminiftered on the morning of the operation, and the abftinence both before and after that period*.

I could relate numerous cafes in fupport of the inferences, which I have drawn from the preceding hiftory; that local irritation affecting the nervous fystem may occasion a subfequent affection of the digestive organs of a

therefore unacceffary to adduce more instances.

* Two inflances are recorded in Mr. Pott's Works of the operation for the reduction of an hernia being performed where no ftrangulation exifted. See Pott's Works, vol. III. pp. 295, 299, edition of 1783.

The operation in the cafe juft related was undertaken upon the authority of these cafes, which were both fuccessful. I performed a fimilar operation on a patient, whose life had been twice in imminent hazard from firangulation, in a case of adherent epiplocele, in which a truss did not keep up the hernia. This operation was followed by violent peritonitis, which could only be fubdued by fuch copious and repeated venæfection, as endangered the patient's life. These cases have made fuch an impression on my mind, that I should be very averse in future to undertake fimilar experiments.

most momentous nature, and which appears to be the fource of great general diforder of the fystem, because an amendment taking place in the ftate of those viscera, a corresponding alleviation of the general fymptoms enfues. Such cafes fucceeding to great local irritation must frequently occur to every one; it is therefore unneceffary to adduce more inftances.

I fhall however relate another cafe to confirm the opinions which I have delivered, because it appears to me to elucidate still more my prefent fubject.

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A gentleman fell with his leg between the bars of an iron grating, which ferved as a window to a cellar. The part was much bruifed, the skin grazed, and the tibia broken into three or four pieces at its upper extremity. The limb was put up in fplints by a neighbouring furgeon, and the next day the patient requested to see me in confultation. I attended

tended for a few days, but every thing went on fo well, that I difcontinued my regular vifits, and only called occafionally, without feeing the limb. There was no inflammation; the fwelling which had been occafioned by the bruife had fubfided, and where the fkin had been grazed, two or three trivial ulcers had taken place, which obliged the furgeon to open the bandages and drefs them daily. The patient's health had been fo good, that about three or four weeks after the accident, he had fome friends to dine with him in his room, and afterwards played at cards with them, and parted with them, in the evening, in high fpirits. In the middle of the fame night, the patient fuddenly became delirious, and I was fent for to meet the other furgeon in confultation. The delirium was then fo great, that the patient knew not the perfons in the room. On looking at the leg, with a view to inquire into the caufe of this unexpected occurrence, it was found, that one of the ulcers of the skin on the outfide of the limb, on which his position had produced some pressure, had become deep, and apparently penetrated the fafcia, tion

fascia, fo as to communicate with the fractured bone, and thus had converted a fimple into a compound fracture. To this event we could not but attribute the fudden irritation of the conffitution, and the delirium. Opium was immediately given, which quieted this disturbance in a confiderable degree, fo that on the next day the pulfe was more tranquil, and there was no delirium. On the following day his ftomach became affected; he was fick, could take nothing by the mouth, had the hiccough, and his abdomen was diftended like that of a perfon in tympanitis; whilft the fenfes and intellect were not difordered as they had been. In this state he continued about twenty-four hours, when his fufferings were terminated by death. As fome fufpicions had arifen that the head or abdomen might have been hurt at the time of the accident, the body was infpected; but no injury of thefe parts was discovered. Upon examining the leg, it was found that the external wound communicated with the fractured tibia, which was broken into feveral pieces; fome of the fractures, afcending in a perpendicular direcisighst. tion,

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tion, communicated with the joint of the knee.

In this cafe the difcease was of too short duration for observations to be made respecting the fecretions of the chylopoietic organs; but it was evident that there was a complete atony of the stomach and intestines. The confideration of fuch cafes as those which have been related, have convinced me that local irritation may produce a great diforder of the digestive organs. It must, I think, be granted, that it produces fuch effects through the medium of the nervous fystem, and that, by a kind of reflected operation, the digeftive organs become affected fo that the most manifest and greatest diforder seems to exist in them. to the whole contraction of

Now, if vehement local irritation can produce fo violent a diffurbance of the chylopoietic organs, it may be expected that a lefs degree of a fimilar caufe will produce flighter effects of the fame nature. Indeed, the foregoing cafes were related not merely becaufe they they feemed worthy of record by themfelves (for fuch hiftories are but rarely met with in medical books), but chiefly to prepare the reader for the obfervations which are to follow.

This flighter kind of derangement occurs in cancerous complaints, which rarely fail to be accompanied with diforder of the abdominal vifcera; to which affection I am induced ingeneral to attribute * that difficulty of breathing which has been fo generally remarked in the last stages of the difease. We find the fame ftate of the chylopoietic organs in the advanced ftages of lumbar abfcefs, compound fractures, and all kinds of local difeafe, which impart confiderable and continued irritation to the whole constitution. We also find a less important difease, as for instance, a fretful ulcer, keep up a diforder of the fystem in general and of the digeftive organs in particular, which fubfides as the irritable ftate of the ulcer diminishes. But as practitioners in general may not perhaps have fo attentively remarked

* Sce Surgical Obfervations, Vol. I.

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thefe circumstances as to be familiarly acquainted with them, it may be useful to mention a very common occurrence, which cannot have escaped observation. I allude to the effects of the irritation of teething upon the health of children. The Brain is fometimes fo affected as to caufe convultions; the digeftive organs are almost constantly difordered. The appetite fails ; the tongue is furred ; the fecretions of the liver are either fuspended, deficient, or vitiated. The bowels are either purged or coffive, and the fæces fetid. The fæcal matter is often mixed with mucous and other fecretions. There is also frequently a very troublefome cough. Such fymptoms generally fubfide when the local irritation ceafes, but fometimes the diforder of the digeftive organs, thus excited, continues and diffurbs the general health of the patient.

If local irritation be capable of difordering the bowels, we naturally conclude that it acts upon them through the medium of the brain. If alfo the brain and nervous fyftem fhould be difordered, without any apparent C local local difeafe, we might expect fimilar derangements in the functions of the digeftive organs. In cafes, where fome morbific poifon is abforbed, which produces effects fimilar to thofe of fyphilis, we frequently find the general irritation of the conftitution accompanied alfo with that diforder of the bowels, which I now proceed more particularly to defcribe.

This flighter diforder of the chylopoietic organs is, in general, manifested by a diminution of the appetite and digeftion, flatulence, and unnatural colour and fetor of the excretions, which are generally deficient in quantity. The tongue is dry, whitish, or furred, particularly at the back part; this fymptom is most apparent in the morning. As the difease advances, a tenderness is felt when the epigaftric region is comprefied, and the patient breathes more by the ribs, and lefs by the diaphragm than in the healthy ftate. The urine is frequently turbid. I am inclined to impute these fymptoms (for reasons which will be hereafter mentioned) to an irritable state of the chylopoietic organs, which is accompanied local by

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by a deficiency or depravity of those fecretions, upon the healthy quality of which, the right performance of their functions depends. As all the fecretions poured into the alimentary canal are colourless, except the bile, in that alone can any defect or depravity be discovered by infpection.

the formach may direct the food in

Before I proceed, I may be allowed to enter more fully into a confideration of the fymptoms which denote diforder of the digeftive organs; in order to induce furgeons to pay that ftrict attention to them, which the importance of the fubject fo well deferves. It would indeed be impoffible for the reader to underftand, without fuch prefatory obfervations, my object in the treatment of the cafes which will prefently be related, or the opinions which I have formed, relative to their mode of cure.

The changes which the food undergoes in the digeftive organs of the more complicated animals are threefold; and diffinct organs are allotted to each of the three procefies. Digef-

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tion takes place in the ftomach, chylification in the fmall inteffines; and a third procefs, hitherto undenominated, is performed in the large inteffines. It is probable that in fome cafes, one fet of organs may be more difordered than the others, and of courfe one of thefe proceffes may fail more than the reft. For inftance, the ftomach may digeft the food in a healthy manner, although the inteffines de not perform their fhare of the changes, which they ought to effect.

Diforder of the ftomach is generally manifefted by the ftate of the tongue. If there be no fever to difturb the fecretions in general, the change which is vifible in the tongue can be imputed to no other caufe than local difeafe, or a participation in a diforder of the ftomach or lungs. Local irritation or mental anxiety will caufe a white and dry tongue; but does not this effect arife through the medium of an affection of the ftomach? For although the fecretions of the tongue muft partake of the general difturbance which prevails in fever, their efpecial diforder may be, in that cafe alfo,

alfo, not improperly attributed to the flate of the flomach.

The flate of the tongue is, in general, an infallible criterion of a difordered condition of the ftomach; but it does not point out the kind and degree of that diforder. In recent and confiderable affections, where the appetite is loft, and the digeflive powers are greatly impaired, the appearances of the tongue are by no means fo ftrikingly unhealthy as in more confirmed cafes, where neither the appetite nor digeftion appear materially deficient. It is probable that a continuance of irritation in the flomach may fo affect the tongue, as to render unnatural fecretions habitual to the part, and that these exist independently of the original caufe, or may be reproduced by trivial degrees of diforder. Nay, fometimes the cuticle of the tongue feems to have loft its tranfparency, and to become permanently white, in confequence of continued irritation.

After making the allowances, which fuch circumftances require, we may in general be enabled enabled to detect a difordered ftate of the ftomach by obfervations made on the tongue : and, as it is of confequence to afcertain fuch diforder at an early period, when the fymptoms are probably flight, this organ fhould be obferved in the morning, when it will be found much furred, particularly at the part next the throat. Its appearance may vary in different parts of the day from varieties in the ftate of the ftomach, depending on the excitement which is derived from food, or a ftate of irritation arifing from too long fafting. The tongues of many perfons with diforder of the ftomach look moderately healthy during the day, though they have been fo much furred in the morning, that it has been deemed neceffary to fcrape them,

A difordered ftate of fecretion, either as to quantity or quality, will be the natural effect of irritation of a fecreting organ. This is evidently the cafe with the tongue; and we may, with great probability, conjecture that the fame confequence alfo takes place in the ftomach. Since the juices of the ftomach are the immediate agents

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agents in digeftion, that process must be difturbed in proportion as its fecretions are deficient or vitiated.

If undigefted matter pafs from the ftomach into the inteftines, it can fcarcely be fuppofed that their powers are capable of converting it into chyle; and it may become irritating to thofe organs in confequence of the chemical changes, which it may then undergo. Animal and vegetable matters experience confiderable chemical changes before they leave the ftomach; and thefe changes are likely to increafe in proportion to the time during which they are detained, unlefs counteracted by the powers of the digeftive organs, powers which feem chiefly to refide in the fluids which are fecreted into them.

The extent of the power which the inteftines poffers of converting the fubftances contained in them into chyle, or of preventing chemical changes, is unknown. It is probable that much unaffimilated matter is abforbed by the lacteals, when the digeftive powers fail in their

their functions. This is demonstrably the cafe in diabetes, where the vegetable matter floats in the ferum of the blood, rendering it turbid, and afterwards combines fo as to form fugar in its paffage through the kidnies. The ftrong odour, which various kinds of food impart to the urine, proves also the indiferiminate manner, in which different fubstances are abforbed from the inteftines. May not a turbid and fetid ftate of the urine very frequently arife from a fimilar caufe; viz. from the imperfect action of the digeftive organs, in confequence of which, unaffimilated matter is taken up by the lacteals, and afterwards feparated from the blood, fo as to impart these qualities to the urine? It may be reafonably conjectured that the fame powers, by which the kidney converts the old materials of our body into that peculiar modification of animal matter, which is diffolved in the water of the urine, and which has been called by the French chemifts urée, may alfo enable it, in a healthy and vigorous state, to difpose of much unaffimilated fubstance in a fimilar way. The further confideration of this fubject would, however, lead to

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to a difcuffion foreign to the purpose of the prefent paper: it will be fufficient to remark at prefent, that the state of the urine may afford affiftance in afcertaining the exiftence of diforder of the digestive organs, and in indicating its nature. It has been already mentioned, in the brief account of the fymptoms, that the urine is frequently turbid. It fhould, however, also be observed, that the quality of the urine much depends on the ftate of the nervous fystem. It is frequently, in the diforders of which I am fpeaking, pale-coloured and copious, which is probably owing to a ftate of nervous irritation, fuch as exifts in hyfteria. It is not improbable that diforders of the digeftive organs, by caufing the frequent fecretion of unnatural urine, may produce irritation, and fubsequent difease of the kidneys.

Modern phyfiologifts feem to agree in the opinion that the fuccus gaftricus is the agent, by which digeftion is effected; but they are not fo unanimous as to the immediate caufe of chylification. It is not improbable that the fuccus inteftinalis is a principal agent, although its

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its qualities have not yet been enquired into; for, indeed, the inveftigation would be attended with difficulties almost insuperable.

Since the bile and pancreatic liquor are poured into the inteffines at a fmall diffance from the ftomach, it is natural to confider thefe fluids as ufeful in effecting the change, which the alimentary matter undergoes in the fmall inteffines, namely, its conversion into chyle. The chyme, or aliment digested by the stomach, being viscid, the pancreatic juice has been confidered as an useful and necessary diluent.

The uses of the bile have of late much engaged the attention of physiologists. Mr. Hunter observed that it did not seem to incorporate with the chyle; and it certainly cannot do so, and retain its own nature, fince its colour and taste are so intense, that it would impart these properties to the chyle, if mixed with it in the smallest quantity. The difficulty of conceiving that the two shuds can be agitated together by the peristaltic motion of the intestines,

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tines, without becoming incorporated, has led to an opinion that the bile may combine with the alimentary matter, and lofe its original properties; but nothing of this kind is afcertained. Fourcroy thinks that the alkali and faline ingredients of the bile may combine with the chyle, and render it more fluid, while the albumen and refin may combine with the excrementitious matter. It is, indeed, evident that the bile combines either totally or partially with fomething feparated from the chyle, and exifts formally in it, and in a flate of health uniformly dyes it of its peculiar colour; and therefore it has of late been fuppofed that the bile may ferve to purify the chyle, by precipitating and combining with its feculent parts *.

It has been faid in the brief and general recital that has been given of the fymptoms,

* In the enquiry into the probable uses of the bile, it ought to be observed, that in many perfons, in whom that fecretion is either for a confiderable time wholly suppressed, very deficient, or much depraved, it does not appear that the nutrition of the body is defective.

which

which characterize diforder in the chylopoietic organs, that the ftools are of an unnatural colour and odour. Medical men entertain various opinions refpecting the colour of the fæces: to me this property feems generally to depend on the kind and quantity of the bile. All the fecretions, which are poured into the alimentary canal, except the bile, are colourlefs or white; if, therefore, this fluid were wanting, the refidue of the aliment would be of the colour, which might be expected to refult from fome of its undigefted parts combined together. When, for inftance, the fecretion of bile is ftopped by the irritation of teething in children, whofe diet is chiefly bread and milk, the fæces are white; when this fecretion is obstructed in adults, the stools are pale like whitish-brown paper.

In cafes of difeafe, however, coloured fecretions may take place from the bowels. I have known inftances, in which a fluid like coffee-grounds in colour and confiftence was vomited; and a fimilar matter, of darker colour and of an offenfive finell, was difcharged in

in great quantities per anum : and I have feen green bile mixed with these discharges. I have examined the bodies of perfons who died of fuch attacks, and have found the lining of the alimentary canal highly inflamed, and apparently tending to mortification throughout its whole extent, without there being any difeafe of the liver. I am, therefore, fully aware that the fæces may be coloured by difeafed fecretions from the bowels themfelves; but, in my opinion, they very rarely derive their colour from this caufe. Further; an unhealthy colour of the fæces may be attributed to fome degeneracy in the quality of the alimentary matter; fuch as may be fuppofed to take place when the digeftive organs fail in the performance of their offices, and different alimentary fubstances are in consequence detained in the bowels, where they may pass through chemical decompositions and re-combinations. But, though I am inclined to allow the full operation of these causes, the following reafons lead me to believe that the colour of the fæces generally depends on the kind and quantity of the bile. In the natural flate

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ftate of the digeftive organs, when there is no peculiarity of diet, and no medicine is taken, the bile alone colours the refidue of the food. The fæces voided during a ftate of diforder of the digeftive organs are fometimes partially coloured; which circumstance cannot be well accounted for upon any other fuppofition than that of an irregular fecretion of the bile. Fluids fecreted from the inteftines do not ufually enter into combination with the fæcal matter, but appear diftinctly when excreted. Thus we find mucus and jelly difcharged from the bowels, unmixed with the fæces. Medicines which affect the liver produce a very fudden change in the colour of the fæces. Small dofes of mercury, without any alteration of diet, fometimes change the ftools immediately from a blackifh to a light yellow colour, which indicates a healthy but deficient fecretion of bile. chemical decomposit

Healthy bile in the human fubject is generally of a deep yellow brown colour; the brown feems to be the refult of the yellow colour concentrated. It appears to me to be

be of the colour of wetted rhubarb; for, if a small portion of either of these substances be put into a large quantity of water, they will dye it of a bright yellow colour, which is actually the colour of these fubstances, yet it is fo concentrated in the mafs as to appear of a deep brown. Sometimes, indeed, we find green bile in the gall bladder, when the liver is not difeafed. I cannot, however, but think that the natural colour is a yellow, fo intense as to appear brown. Green bile is ufually poured out in circumstances, where there is evident diforder of the digeftive organs; and we cannot well fuppofe that there are two kinds of healthy bile. The quantity of this fluid fhould be fuch as completely to dye the excrement of its peculiar colour. By attending, therefore, to the colour of the fæces, the kind and quantity of bile, which the liver excretes, may in general be afcertained.

The colour of the alvine excretions in these difordered ftates of the vifcera is various. Sometimes they appear to confist of the refidue of the food, untinged in the least degree with bile,

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bile. Sometimes they are of a light yellow colour, which denotes a very deficient quantity of healthy biliary fecretion; they may alfo be of a deep olive, of a clay brown, and of a blackifh brown; all which fhew a vitiated ftate of the biliary fecretion.

Any kind of brown, which dilution will not convert into yellow, I fhould confider as unhealthy, fince the colour of healthy bile is a bright yellow, which by concentration appears brown.

Such are the circumftances which I have collected from my own obfervation, and the reports of others, relative to the alvine excretions, in the diforders which have been defcribed.

I have dwelt thus particularly upon the fubject of the biliary fecretion, from a belief that its quantity and quality can, in general, be afcertained by infpection, and will therefore ferve to indicate the prefence of diforder. Whether the foregoing opinions be correct or not

not, it will, I think, be generally granted that the ftate of the excretions from the bowels commonly indicates the healthy or difordered ftate of those organs.

The effects, which medicine or diet may have upon the colour of the fæces, ought, however, to be confidered. When the food is coloured, and this colour is not altered by digeftion, it will, of courfe, appear in the fæces; hence if it should be thought defirable to know accurately the ftate of the biliary fecretion, it would be right to reftrict patients to a diet that is not likely to colour the fæces. The green colour of vegetables tinges the fæcal refidue of the food. Steel alfo is known to influence the colour of the fæces. It fhould alfo be remarked that the exposure of the fæces to air after their expulsion, will, in fome inftances, caufe a confiderable alteration in their colour. In our endeavours, therefore, to afcertain whether the liver is performing its office rightly, by obferving the colour of the fæces, attention should be paid to the circumftances which have been mentioned,

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left we fhould be deceived, in confequence of fuch inattention.

commonly indicates the healthy or difordered

I conclude this review of the opinions entertained refpecting chylification, by obferving that if the fuecus inteftinalis be an agent in this function, diforder of the inteftines is likely to affect its fecretion, and thus impede this fecond important part of the process of affimilation.

The refidue of the alimentary matter, mixed with the bile, paffes from the fmall into the large inteffines, and there undergoes a fudden change; it acquires a peculiar fetor, and becomes what we denominate fæces. This change is fo fudden, that it cannot be afcribed to fpontaneous chemical alterations, (which would be gradual) but to fome new animal agency. If the contents of the fmall inteffines at their termination, and of the large at their commencement, be examined, they will be found totally different, even within a line of each other; the former being without fetor, and the latter being in all refpects what

what is denominated fæces. Though chemifts then might speak of the fæculent matter of chyle as fæces, yet phyfiologifts would rather apply that term to a change in the refidue of the food, which takes place in the large inteftines, and which feems to be effected by the animal powers of those organs. The fæces quickly fuffer chemical decomposition out of the body, although they often remain in the bowels, without undergoing the fame kind of change. Their chemical decomposition is attended with the fudden formation of ammonia; yet if they be examined when recent, they are found to contain acids which ammonia would neutralize. The inference, therefore, naturally arifes, that this third process, amongst other purposes, may be defigned fo to modify the refidue of the alimentary matter, as to prevent it from undergoing those various chemical changes, which might be ftimulating to the containing organs, as well as injurious to the general health. Having taken this general

In a perfectly healthy flate of the digeflive organs, probably no chemical decomposition,

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even of the fæces, takes place; yet fuch changes happen, in fome degree, without apparently producing any injurious confequences. To chemical changes we may probably attribute the extrication of inflammable air, and the various and unnatural odour of the fæcal matter, which is obfervable in difordered flates of the digetive vifcera.

The means by which this modification of the refidue of the food, which takes place in the large inteffines, is effected, are but little known. Analogy leads us to refer it to the effects of a fecretion from the lining of those inteffines in which it takes place. Now if this fecretion deviates from the healthy flandard, in confequence of an irritated or difordered fiate of those organs, we may reasonably expect a corresponding derangement of the process, by which the refidue of the food is converted into fæces,

Having taken this general view of the functions of the chylopoietic vifcera, in order to facilitate the forming a judgment relative to those

those circumstances which indicate their derangement, I return to fpeak more fully of that affection of them, which I have defcribed, as arifing in furgical cafes from the irritation, which local difease or morbific poisons produce upon the fenforium. This fubject, it must be acknowledged, is very important, if it can be fhewn that diforders of the digeftive organs are the caufe of a great number of other difeafes. The enquiry would then not only lead us to difcover the fource of many difturbances of the general health, which originate in those of the digestive organs (for patients have no fuspicion of any diforder exifting in them), but would also lead to the prevention of many fecondary difeafes of a more vexatious and fometimes of a more fatal nature, than those from which they originated. If the tongue be furred at its back part in the morning, when there is no fever, and when the patient has taken no ftimulating or indigeftible food the preceding night, it is reafonable to infer in general that the state of the tongue is owing to its participating in the irritation of the ftomach. Such participation produces an 20061 alteration

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alteration in the fecretions of the tongue; they are either deficient in quantity, or vitiated in quality; and it is not unreasonable to suppose that the fecretions of the ftomach deviate in like manner from their healthy ftate. A ftate of irritation in any fecreting furface is, indeed, likely to be attended with the fame confequences. It is, therefore, fair to infer that, when a general diforder of the digeftive organs takes place, those fluids, which produce the changes which the food undergoes in them, are deficient or depraved, and confequently that digeftion and the fubfequent proceffes must be but imperfectly performed. The liver is likely to participate in the diforder, and the biliary fecretion is either diminished or vitiated. This circumstance admits of ocular demonstration; and I have, therefore, confidered it as an evidence of a more or lefs general diforder of the digeftive organs. A very reafonable objection may, however, be made to confidering the diforder of the functions of the liver as a criterion of those of the stomach and inteftines; fince the liver is independent. of the latter organs, and may be, as will prefently actistation

fently be mentioned, the fubject of a diforder confined to itfelf. In fome cafes, alfo, diforder of the alimentary canal may take place, without difturbing the functions of the liver. Still, in general, diforders of the ftomach and bowels affect the functions of the liver; and the ftate of the biliary fecretion affords a very ufeful evidence of a more or lefs general diforder of the chylopoietic vifcera, and fhould excite our attention to inveftigate its kind and degree. This diforder, which has been defcribed, muft alfo, I think, be confidered as connected with a ftate of weaknefs of the affected organs.

may be included in the general defcription of

It is faid, in the recital of the fymptoms denoting diforder in the digeftive organs, that the fæces are generally deficient in quantity. This circumftance may be accounted for in various ways. It may be fuppofed that the bile being deficient in quantity, or of an unhealthy quality, may not precipitate the ufual proportion of fæculent matter from the chyle. Perfons whofe bowels are lax, and do not appear to be deficient in their action of carrying downwards the fæculent matter, void it daily daily in deficient quantities. It may be fuppofed too that, either from the deficiency of bile, and confequent want of excitement, or from the effects of diforder, a torpid ftate of the bowels may exift, which caufes them to carry downwards the fæculent matter in fmall quantities. The circumftance may caufe a greater abforption of the fæces than what is natural, or an accumulation of them in the colon *.

That the digeftive organs in general are affected, in the cafes alluded to, is most evident; but I am aware that many varieties of diforder may be included in the general description of the fymptoms, which I have given. Future observations may lead to further distinctions; but I see no impropriety at present in speaking of the difordered state as general; fince no material diforder can take place in one of the digestive organs, without disturbing the functions of the others. When digestion is imperfectly executed, the functions of the intef-

* The cafes related by Doctor Hamilton appear to fhew that fuch accumulation fometimes takes place. See his Treatife on the Effects of purgative Medicines.

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tinal canal will foon participate in the diforder of the ftomach. Under thefe circumftances, the fecretion of bile will alfo probably become irregular. Should difeafe commence in the large inteftines, as about the rectum, it difturbs the functions of the ftomach, and fecretion of the liver, and becomes augmented in its turn by its fympathy with thefe parts. Should the liver be difordered in the first inftance, the ftomach and bowels may not immediately fympathize, although they will probably foon become affected.

I feel further warranted in confidering the fymptoms, which have been recited in the former part of this paper, as arifing from a general diffurbance of the functions of the digeftive organs, from contemplating the effects of blows on different parts of the belly, which do not feem to have injured the ftructure of any fingle abdominal vifcus, but which yet produce effects denoting a general diforder of the whole of thefe organs. The fymptoms have varied in feverity in proportion to the violence of the blow which had been received. In the cales

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cafes which were the confequence of the more forcible injuries the fymptoms were, a furred tongue; great vomiting, fo that the flomach could retain no food; difficulty of affecting the bowels by medicine; great fever; and even delirium. Indeed, all those effects were produced, which I have reprefented as arifing from vehement local irritation of remote parts of the body. The diforder has generally terminated by a profuse discharge of black and fetid ftools, after which the patient has perfectly recovered. On the contrary, where the fymptoms confequent on the blow have been lefs violent, fo as not to claim fuch ftrict attention, the diforder has continued. Perfons who had been previoufly in perfect health, have become hypochondriacal; and have had all those fymptoms of diforder of the digestive organs, which have been already enumerated as arifing from a lefs degree of local irritation, with fuch confequent difeafes as originate from fuch diforder, and which will be mentioned in the fubfequent part of this paper.

In order to enquire more particularly into the nature of this diforder of the digeftive organs,

varied in feverity in proportion to the

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organs, I have examined the bodies of a confiderable number of perfons who have died of cancer, lumbar abfceffes, and other great local difeafes. Iknew that these patients had their digeftive organs difordered in the manner that I have defcribed, and that in many of them the fecretion of bile had been fupprefied for a great length of time, and, when it was renewed, that it was very deficient in quantity, and faulty in quality: yet, on diffection, no alteration was difcovered in the ftructure of the chylopoietic vifcera, which could be decidedly pronounced to be the effect of difeafe. It naturally excites furprife, that fuch a flate of irritation, and imperfect performance of the natural functions of thefe parts fhould exift for fo long a time, as in many cafes it is known to do, without producing organic difeafe; still I believe it may be fet down as an axiom, and which has been verified by every observation which I have made, that a state of irritation naturally leads to those difeated actions, which produce an alteration of ftructure in the irritated parts, and thoughout beingib travewoH being ulcernted, and the peritoneal

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which the bodies of a con-

However, where the difordered flate of the bowels had been of longer duration, I have found the villous coat of the inteffines fwoln, pulpy, turgid with blood, and apparently inflamed, and fometimes ulcerated; and thefe appearances have been most manifest in the large inteffines. Having obferved repeatedly in diffections of these cases, that the large inteftines were more difeafed than the fmall ones, it occurred to me, that the fact might be accounted for in the following manner: If digeftion is incomplete, the undigefted food must be liable to chemical changes, and the products refulting from this circumstance, are likely to be most stimulating to the large intestines. Indeed, in advanced stages of this diforder, mucus and jelly tinged with blood are discharged, and it feems probable that a kind of chronic dyfentery may be induced.

In fome inftances, where the diforder had exifted for many years, the bowels have been difeafed throughout their fubftance; the internal coat being ulcerated, and the peritoneal covering

covering inflamed, fo that the convolutions of the inteftines were agglutinated to each other. Here the liver alfo was much difeafed, being tuberculated in every part, Such is the refult of the information which I have obtained by diffection.

I have represented this disturbed state of the chylopoietic organs in furgical cafes, as excited frequently by diforder of the fenforium, produced by great local difeafe, or from a fimilar diforder, occafioned by the absorption of morbific matter. The same affection, characterized by the fame fymptoms, occurs very frequently as an idiopathic complaint. The caufes which have appeared to produce it, in the cafes which have fallen under my notice, are improprieties of diet, a fedentary life, impure air, anxiety, and too great exertion of the mind or body. It is indeed no wonder, that the continual irritation of our unnatural diet, should, by degrees, produce fuch diforder of the digeftive organs as I have defcribed.

Whatever

Whatever may be the origin of this difeafe; whether it occur as a confequence of nervous diforder, or affume an idiopathic form, it uniformly difturbs the nervous fyftem, when once eftablifhed. When it is fympathetic, the effect becomes a caufe, and maintains that diforder of the nerves, by which it was originally produced.

the chylopoietic organs in furrical cafes, as

In the general enumeration of the fymptoms, feveral circumftances have been omitted which occur occafionally, and which may, when the fubject is better underftood, denote peculiarities in the difeafe, and corresponding peculiarities in the medical treatment, which is required for its cure. I shall here notice a few of thefe. The appetite is fometimes moderately good, when the digeftion is imperfect; and the latter may not be deficient, although the difease may still exist. In some inftances indeed, the appetite is inordinate. Tendernefs of the epigaftric region on preffure, is not always an attendant, even on advanced ftages of the difeafe. The bowels are alternately

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nately coffive, or lax even to purging*. The urine is fometimes pale-coloured and copious like that of hyfterical patients.

A diforder in the functions of the ftomach and bowels, fimilar to that which has been here defcribed, may exift without the functions of the liver being difordered; and again, the fecretion of bile may be interrupted, without the digeftive proceffes being materially impeded. Such circumftances may happen occafionally, but they are not ordinary occurrences, and fhould be confidered as exceptions to general rules, which do not militate againft their common operation.

Accurate attention to the fubject, efpecially in medical cafes, may lead to important fubdivifions, which I have not yet been able to make. But when I find that irritation of the

* I have known perfors whofe bowels were ordinarily coffive, and whofe general health was much deranged by diforder of the digeftive organs, though they were unconfcious of its existence, feel pleafed that their bowels were in a comfortably lax state; yet on observing the stools, they refembled pitch in colour and appearance.

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nervous fystem, however it may originate, deranges the chylopoietic organs, and affects the ftomach, bowels, and liver, apparently at the fame time, I think it fair to infer, that thefe organs are equally operated on by the fame caufe. Diforder of the brain may affect the chylopoietic organs; and it is well known that this influence is reciprocal. The ftomach is faid to be chiefly concerned in producing these effects; but the causes of the sympathetic affection are probably more general. A fit of paffion has produced jaundice; and the irritation of teething in children frequently fufpends the fecretion of bile; fo that the ftools are not in the leaft degree tinged with that fluid. If the head can thus affect the liver, it is reafonable to infer, that the liver may reciprocally affect the head. It is very difficult to form an opinion relative to this fubject; for, in the inftances which have been mentioned, the affection of the liver may take place, only because it forms a part of the digestive organs, and not from a direct fympathy exifting between it and the head. Still, however, I do not think it unreasonable to conclude that irritation

tion of the other chylopoietic organs may, as well as that of the ftomach, diforder the fource of fenfation.

In the preceding pages, I have related facts which feem to warrant certain conclusions, that I fhall prefently mention. As the narrative has been broken into many parts, I think it right to point out the inferences, which may be fairly drawn from the facts already flated, before I proceed to the further difcuffion of the fubject.

1, Sudden and violent local irritation will produce an equally fudden and vehement affection of the digeftive organs.

2, A flighter degree of continued local irritation will produce a lefs violent affection; the ordinary fymptoms of which are recited in page 18.

3, This affection is a diforder in the actions, and not a difeafe in the ftructure of the affected organs; although it may, when long E continued, continued, induce evident difeafed appearances, both which circumstances are proved by diffections.

4, A fimilar diforder of the digeftive organs occurs without local irritation, and exifts as an idiopathic difeafe; in which cafe, it is characterized by the fame fymptoms.

5, There are fome varieties in the fymptoms of this diforder, both when it is fympathetic and idiopathic. Thefe are enumerated in page 46.

6, The diforder probably confifts in an affection of all the digeftive organs in general, though in particular cafes, it may be more manifest in some of those organs, than in others.

7, That diforder of the digeftive organs requently affects the nervous fyftem; producing irritability and various confequent affections. This is proved by the effects of blows on the belly, in perfons previoufly healthy; and the fame

fame confequences are often obferved from whatever caufe the diforder originates. At the fame time weaknefs muft be produced from imperfect digeftion; and from the combination of thefe caufes, *viz.* weaknefs and irritation, I deduce the origin of many local difeafes, and the aggravation of all, as will be feen in the relation of the cafes.

Nothing in pathology is more generally admitted, than the reciprocal operation of diforders of the head and of the digeftive organs; yet the exceptions to this general rule deferve to be remarked in a comprehensive examination of the fubject. Some perfons have great diforder of the digeftive organs, without any apparent affection of the nervous fystem; and even difeafes of a fatal nature may take place in the former organs, without affecting the latter. Indeed, if we examine any of the most evidently fympathetic affections, we shall find the fame exceptions. An inguinal gland, or the teftis, frequently inflames from irritation in the urethra; yet great difeafe occurs occasionally in that canal, without producing E 2

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producing these apparently sympathetic confequences.

We can never be certain that the ftomach and bowels are the only organs difordered, nor even that they were primarily affected. General nervous irritation may have preceded the diforder, or may have been caufed by it. The hiftory will generally fhew, that the derangement of the digeftive organs is fecondary. It arifes from local irritation, and can be produced only through the medium of the fenforium. When it is idiopathic, it frequently originates in caufes which affect the nervous fystem primarily; fuch as anxiety, too great exertion of mind or body, and impure air. Sedentary habits and irregularities of diet are caufes which probably act locally on the organs themfelves. Nervous irritability and weakness are not perhaps fusceptible of a direct cure by medicine; but the diforders of the digeftive organs are more corrigible by medical remedies. In practice, these require our chief attention; and if the diforders be corrected, all nervous irritation

tion frequently ceafes, and health is reftored. In many inftances the nervous irritation, which has induced the difeafe, is trivial, and would foon ceafe, were it not kept up by the re-action of its fecondary fymptoms.

Whether this diforder of the digeftive organs be primary or fecondary, it produces irritation in the brain ; and thus may caufe in many inftances actual difeafe of that organ, as will be ftated in the conclusion of this paper. But derangement of the digeftive organs arifes, in many cafes, from eftablished nervous diforder; indeed there is often reafon to fuppofe that it is dependent on, or connected with, actual difeafe of the brain. In fuch cafes, the correction of the difordered functions cannot be accomplifhed; and even if it were practicable, it would not cure the difeafe. It is however highly neceffary and advantageous to attend to the diforder of the digeftive organs, where it is only a fymptom of nervous dif-The relief of the former will often eafe. mitigate, though it cannot cure the latter.

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I fhall, in the next place, reprefent the general circumstances, relative to the health of those perfons who have local difeases, apparently caufed or maintained by diforder of the whole fystem. They generally declare that they are in good health, except that they feel diffurbed by their local complaints; yet they are found, on enquiry, to have all those fymptoms, which characterize a difordered ftate of the digeftive organs. The mind is alfo frequently irritable and defpondent; anxiety and languor are expressed in the countenance. The pulse is frequent or feeble, and flight exercife produces confiderable perfpiration and fatigue. These patients are fometimes reftlefs at night, but when they fleep foundly they awaken unrefreshed, with lassitude, and fometimes a fenfation, as if they were incapable of moving, Slight noifes generally caufe them to ftart, and they are, to use their own expression, very nervous. These circumftances feem to me to indicate weaknefs and · irritability of the nervous and mufcular fyftems; which, in addition to the diforder of the

the digeftive organs, that has been defcribed, are the chief circumftances obfervable relative to the general health of thofe patients, whofe cafes are related in the following part of this paper. By correcting the obvious errors in the ftate of the digeftive organs, the local difeafe, which had baffled all attempts at cure by local means, has fpeedily got well, and the patient has acknowledged that fuch an alteration has taken place in his general health, as excites his aftonifhment.

The connexion of local difeafe with general diforder has been often remarked; it has been formerly attributed to impurity of the fluids; a theory which is not irrational. Imperfect digeftion muft influence the qualities of the blood, and all parts of the body may be affected from this fource. But the modern explanation of thefe phænomena, by means of fympathies, is probably preferable. Afflicting intelligence will deftroy the appetite and produce a white tongue in a healthy perfon; and a blow on the ftomach diforders the head. Thefe phænomena nomena take place independently of the blood, and can only be explained by admitting that difturbance of one organ immediately affects another.

The writings of the ancients abound with paffages, in which difeafes are attributed to affections of the abdominal vifcera, and the fame fact has been noticed by feveral of the moderns. The French furgeons appear to be very folicitous to keep the bowels in a cool and tranquil state; and Desfault ascribes the origin of eryfipelas to a bilious caufe. The German furgeons, Richter and Schmucker, attribute many local difeafes to gaftric affections; and in Italy, Scarpa views the fubject in the fame light. The English practitioners feem to have been lefs attentive to this class of diforders; infomuch that Fischer, a German, who published an account of the ftate of medicine in this country, expresses his furprife that the English should be fo little acquainted with gaftric difeafes. I know not exactly what ideas thefe gentlemen may annex to the terms gaftric and bilious diforders,

ders, fince they do not particularly deferibe them. I have reprefented the fubject in the foregoing pages, as it has appeared to me on the moft attentive examination. There are circumftances which denote irritation of the digeftive organs to exift, and deficiency or depravity of their fecretions; and the diforder exifts in every gradation, between the flighteft and moft violent affection, without any evident difference in its nature.

The refult of all the obfervations, which I have been able to make, relative to this fubject, has induced me to believe that the diforder of the digeftive organs, caufed by the various circumftances, which have been recited, confifts in a weaknefs and irritability of the affected parts, accompanied by a deficiency or depravity of the fluids fecreted by them, and upon the healthy qualities of which, the right performance of their functions feems to depend. The opinion that the difordered ftate of the digeftive organs, which has been defcribed, confifts in a weak and irritable ftate of them, attended by

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a deficiency or vitiated ftate of their fecretions, is deduced immediately from the confideration of the fymptoms, and confirmed by all the collateral evidence, which we can collect. The duration of the affection, without fatal confequences, flews that it is a diforder of functions, and not a difeafe of ftructure. Diffections confirm the opinion. Blows, which excite general irritation of the digeftive organs, produce alfo the fymptoms which characterize the like diforder, when it arifes from nervous irritation, or is excited by intemperance. I doubt not but every one will, on reflection, confider the diforders of the digeftive organs to be of the first importance, and will perceive the propriety of diligently enquiring into their nature that we may know them when they exift, and that our attempts to remedy them may be conducted on rational principles. This confideration will, I truft, vindicate me in employing fo much time in an inveftigation which, perhaps, fome may confider as tedious and unprofitable.

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It is generally admitted, that diforders of the chylopoietic vifcera will affect the fource of fenfation, and confequently the whole body; but the variety of difeafes which may refult from this caufe, has not been duly weighed and reflected on,

It may produce in the nervous fystem an abolition of the functions of the brain; or a state of excitation, causing delirium, partial nervous inactivity and infenfibility, or the opposite state of irritation and pain. It may produce in the muscular fystem, weaknefs, tremors, and palfy; or the contrary affections of spafm and convulsions. It may excite fever by diffurbing the actions of the fanguiferous fystem, and cause various local difeafes by the nervous irritation, which it produces; and by the weaknefs, which is confequent on nervous diforder or imperfect chylification. Or if local difeafes occur in a constitution deranged in the manner which I have described, they will become peculiar in their nature and progrefs, and difficult of cure. Affections of all those parts which have a continuity tinuity of furface with the ftomach; as the throat, mouth, lips, fkin, eyes, nofe, and ears, may be originally caufed or aggravated by this complaint. I muft obferve, before I proceed to the relation of cafes, that fuch a diforder of the digeftive organs as I have defcribed exifted in every inftance. I do not take upon myfelf to fay that it was the primary caufe of the general derangement of the conftitution, with which the local difeafe appeared to be connected; it might have been the confequence, as indeed has been ftated in thefe preliminary obfervations.

I fhall now proceed to mention the plan which I have purfued in the treatment of thefe diforders, when they have been connected with furgical difeafes; and the following cafes will demonstrate with what degree of fucces. I do not feel altogether competent to give full directions, relative to this fubject; because I have never attended to medical cases with that degree of obfervation which would lead me properly to

to appreciate the efficacy of different medicines, when administered either in their fimple or compounded forms. The fubject is fo important, that the public would be highly indebted to any practitioner, who would point out the varieties of these difeases, and the appropriate modes of cure. The method of treatment which I have adopted is fimple, and founded on the opinions I have formed, of the nature of the difeafe, and phyfiological views of the functions of the affected organs. ' Believing the difordered parts to be in a ftate of weakness and of irritability, my object has been, to diminish the former and allay the latter. Believing alfo that the fecretions into the ftomach and bowels, upon the healthy state of which, the due performance of their functions depends, were, in confequence of fuch diforder, either deficient in quantity or depraved in quality; I have endeavoured to excite, by means of medicine, a more copious and healthy fecretion.

In conformity to thefe views of the fubject, the patients have been recommended to be particularly

particularly attentive to their diet. The food should be nutritious, and easy of digestion: ftrong plain broths, animal food of loofe texture, milk, eggs, and farinaceous vegetables, are the articles which appear most adviseable. But, as cuftom and inclination have fo great an effect in regulating the actions of the ftomach, I have contented myfelf with recommending patients not to eat any thing, which it was probable that they could not digeft. It feems reafonable to suppose that, if the food be properly digefted, it will not irritate the inteftinal canal; but that, if digeftion fails, the animal and vegetable matters will undergo chemical changes in their paffage through the long tract of inteftines, and thereby maintain a state of irritation in those organs. I have urged patients not to oppress the powers of the ftomach by too great a quantity of food, nor to take a fecond meal, until time has been allowed for the digeftion of the first. I have alfo cautioned them not to let the ftomach become irritable by too long abstinence. I have ordered five grains of powdered rhubarb an hour before dinner, with a view of inviting fecretions particularly

fecretions into the ftomach, and of preparing it for the office of digeftion. This gentle excitation perhaps induces it to expel any refidue of alimentary matter, and creates a kind of artificial appetite; fo that perfons habitually fubject to indigeftion experience very confiderable benefit from the practice. Where rhubarb has difagreed, columbo has been fubftituted.

The function of digeftion will not, however, go on well, even where thefe circumftances have been attended to, if the ftomach be deprived of a ftimulus to which it has been long accuftomed. Uneafy fenfations will be experienced, denoting, if I may fo express it, a difcontented ftate of this organ, and a want of the expected ftimulus. It is on this account injurious to reftrain those patients from the use of wine who have been in the habit of taking it. A moderate quantity may be allowed after dinner; but ftrong fermented liquors must be injurious at any other period. It is wrong to ftimulate the stomach when it has no task to perform.

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ON DISORDERS

A regular diurnal evacuation of the bowels is particularly neceffary, fince the detention of the fæces must prove irritating to these organs. Purging medicines fometimes relieve unpleasant fensations; but they do not in general produce even this effect; and all active purges feem to me to increase the diforder. It is natural to suppose that strong stimuli will aggravate the unhealthy condition of weak and irritable parts.

It is difficult, in many cafes, to correct the difeafe by diet or medicine. The bowels are coftive for a time, and then fits of purging come on. The former ftate muft be obviated, in order to prevent the latter. Medicines which excite a healthy action of the bowels in one perfon, are either inert or too active in another. Dofes which would have no effect in a ftate of health, become purgative in this diforder; a circumftance which fhews that the bowels are irritable. There are fome rare inftances of the contrary, in which it is exceedingly difficult to excite the actions and fecretions of thefe vifcera. In fome cafes a diet of

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a more vegetable and lefs fitmulating nature, with faline aperients, do good. In others, a more generous diet, and aperients of a warmer kind are beneficial. The object which I have had in view, in all cafes, is to excite the periftaltic action of the bowels, without purging; fo as to infure the expulsion of whatever ought to be difcharged.

In giving purgative medicines I have endeavoured to combine them, fo as to excite and ftrengthen at the fame time. Rhubarb, columbo, and kali vitriolat. have been given together; or an infufion of gentian with fenna or tincture of rhubarb. When the infufion of gentian with fenna has been given, it has been prefcribed, in the fubfequent cafes, according to the following formula:

R. Infus. gentian. comp. 3 j.

Infus. fennæ, 3 ij.

Tinct. cardamom. comp. 3j. Fiat hauftus, bis quotidiè, vel pro re natâ, fumendus.

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It is fometimes necessary to increase the quantity of infusion of fenna. I have found in fome cafes, that the purgative medicines and fpices diffolved in fpirit and water, have anfwered better than any thing elfe, in producing a fufficient, but not too copious difcharge from the bowels. Equal parts of compound tincture of rhubarb and fenna is the formula to which I allude. When irritation in the large inteffines has been denoted by the mixture of mucus and jelly with the fæces, and fudden and urgent calls to void them, I have advised oily and mucilaginous medicines as aperients; as caftor oil, mixed with a large proportion of mucilage. My fole object, however, has been to regulate the ftate of the bowels; and when they have been regular without medicine, I have rarely recommended any.

At the fame time, I have not been inattentive to the error in the biliary fecretion, which exifts in the greater number of thefe cafes. I have endeavoured to correct this error by the administration of fuch fmall dofes

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of mercury, as do not irritate the bowels, and are not likely to affect the conflication, even though perfevered in for a confiderable time. In this fate of the digeftive organs, calomel, in finall quantities, fometimes proves irritating. I have combined it as in Plummer's pill, and have given one grain every other night. Where this dofe produced uneafy fensations, or acted as an aperient, five grains of the pil. hydrarg. were fubfiituted in its place; and even this quantity has been diminifhed in fome cafes. When it appeared neceffary, on account of the biliary fecretion, and when the calomel did not irritate the bowels, I have increafed the dofe. The relief, which arifes from the increase or correction of the biliary fecretion, in the majority of these cases, shews how much the liver is concerned in caufing or aggravating the fymptoms in these difeases.

There are numerous and undoubted proofs of the utility of mercury, in correcting and augmenting the biliary fecretion; but the mode of administering it has not, perhaps, F 2 been

been fufficiently attended to. I have known patients, who have voided nothing but blackifh stools for fome months, discharge fæces of a light yellow colour, denoting a healthy, but deficient fecretion of bile upon taking fuch fmall dofes of mercury. The effect of this change on the conftitution and fpirits, has been furprifingly great; though the ftate of the ftomach did not appear to be altered. The use of mercury by inunction, sometimes acts beneficially, in correcting the biliary fecretion; but, if the conftitution be irritated, and weakened by that medicine, the actions of the liver are disturbed ; and the digestive organs in general, become deranged. Mercury in my opinion, acts most certainly, and efficacioufly, when taken into the bowels; and a much fmaller quantity will fuffice, when its application is in this manner rendered chiefly local.

Although experience has made me think very highly of the efficacy of fmall dofes of mercury, in exciting and correcting the biliary fecretion; yet it ought to be mentioned, that

that in fome few cafes, this medicine fails to produce its ufual effects, and that the biliary fecretion becomes healthy without its adminiftration.

Facts are wanting, to enable us to afcertain, whether mercury ameliorates and augments the fecretions of the other digeftive organs, as it does that of the liver. The ftomach frequently appears worfe during its employment, whilft the ftools are confiderably better; I have, in fuch cafes, difcontinued the medicine, and returned to it again if the ftate of the liver made it neceffary. When benefit is obtained from a finall quantity of medicine, we naturally expect an increased advantage from an augmented dofe; this is io natural an error, that an admonition against it appears necessary. I have observed in fome inftances, where fmall dofes of mercury have unexpectedly affected the mouth, that confiderable benefit feemed to arife from this circumstance. Yet it is wrong, in general, to augment the dofe of the medicine, fo as to create even local irritation in the bowels

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by it. In the majority of cases the diforder has exifted for a long time, and has become habitual; therefore it is not likely to get well fuddenly. For this reafon, we fhould adapt our treatment to the more rational expect. ation of effecting a gradual recovery than a fudden cure. The most judicious treatment will not remedy the difease, if the exciting caufes continue to operate; fuch as improprieties of diet, agitation of mind, fedentary habits, or impure air.

ch-cales, difcontinued

The following cafes will afford fufficient teftimony of the efficacy of fuch fimple treatment, as I have recommended. In fome inveterate cafes, apparently depending on eftablifhed nervous diforder, it has been ineffectual. Under fuch circumftances, the nervous affection appears to require the principal attention.

When the flate of the health required it, or the difease did not yield to the treatment, which I have defcribed, I have referred the cafe to the phyfician; under whofe direction, benefit has been obtained by medicines of more

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more activity than those which I had ventured to recommend, conjoined with tonics, and those medicines which are usually termed nervous.

In inveftigating the treatment of thefe diforders, it is neceffary to afcertain, not only what medicine is beneficial, but alfo what change it produces in the circumftances of the diforder. The administration of a medicine may in one cafe be fucceeded by a difcharge of bile, and a striking relief from longcontinued and distressful feelings : yet the fame medicine may be given in many other inftances without the same confequence. Was the change then in this instance accidental ? or must it be attributed to some unnoticed peculiarity in the difease or constitution?

Bark and fteel are not uncommonly given in thefe difeafes: they ought, I think, to be adminiftered in fmall dofes, and never when the tongue is dry; as they feem to fupprefs 'hofe fecretions, which in many cafes are a'ready deficient; and the increafe of which would would tend to relieve irritation in the affected organs. I mention this opinion, however, rather to account to the reader for these medicines not having been prescribed in the subsequent cases, than from any other motive; as I do not feel perfectly competent to decide upon their degree or kind of utility.

Vegetable diet-drinks appear to me very ufeful in tranquillizing and correcting diforders of the ftomach and bowels, for this is the manner in which they feem to be efficacious in the cure of local difeafes. The vegetables prefcribed in the different formulæ are fo diffimilar, that we can fcarcely suppose that they act fpecifically upon the local difeafe. Even Sweet-wort has obtained confiderable celebrity. When diet-drinks fail to correct the diforders of the digeftive organs, they alfo fail to produce any amendment on local difeafes. Such observations have induced me to believe that they have the utility, which I have afcribed to them, of tranquillizing and correcting diforders of the ftomach and bowels/ It is allowable to form an opinion from fuch bluow observations,

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obfervations, though I am fenfible of their invalidity as arguments to prove its truth.

Whenever circumftances would permit, I have recommended the patients to take as much exercife as they could, fhort of producing fatigue; to live much in the open air; and, if poffible, not to fuffer their minds to be agitated by anxiety, or fatigued by exertion. When the diforders, which have been the fubject of this paper, have been long continued, they do not admit of a fpeedy cure; hence attention to diet, air, exercife, and mental tranquillity, are more decidedly beneficial than medicines. Surgeons in London meet with frequent and convincing inftances of the efficacy of pure air. Patients under the irritation of a local difeafe, who fcarcely eat or fleep in town, recover their appetite, digeftion, and fleep fo fuddenly on their removal into the country, as to leave no room for doubting, that the change of air has produced this beneficial alteration in their health. The whole of the plan of treatment which is here recommended is to fimple, and apparently fo inefficient,

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inefficient, that its power might reafonably be doubted, did not facts atteft its utility. I fhould not have thought it right to have thus related it in detail, but for the purpofe of avoiding repetition in the recital of the cafes which are to follow; and alfo becaufe it feemed right to ftate as explicitly as poffible to the younger part of the profession, what are the curative intentions in diforders of this nature *.

* After I had written the above account of the treatment, which I had found the moft fuccefsful in the correction of difordered flates of the digeftive organs, I was much gratified by the perufal of Doctor Hamilton's publication on the Effects of Purgative Medicines. I think there is a great coincidence in the mode of treatment which I have deferibed, and that which is fanctioned by his more extensive experience. He preferibes purgative medicines to act as eccoprotics, to excite but not to flimulate the bowels; and he combines with them generally mirritating dofes of mercury.

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CASES.

SECTION I,

Long before my attention was excited to diforders of the digeftive organs, I had remarked that there was a paralytic affection of the lower extremities, refembling that which is produced by a diforder of the medulla fpinalis, in confequence of difeafe of the bodies of the vertebræ. This paralytic affection alfo appeared to me to vary with the ftate of the patient's health.

These observations led me to propose a method of treatment, which proved fuccessful in the cases of two young ladies, who were affected in this manner. The iffues, which had been ineffectually kept open in the back, were healed; and the state of the health health in general was amended by attention to diet and medicine, by exercise, and country air. The use of the limbs returned in proportion as the health became established. Such were the observations which I had made relative to this subject, when I met with the following cases.

CASE.

A young lady, whose stomach and bowels were difordered in the manner already defcribed, became gradually affected with weaknefs in the lower extremities, and pain in the loins. The pain became at length very fevere, and was aggravated in a manner almost infupportable by the agitation of a carriage. This lady could fcarcely walk, and gave a defcription of the ftate of her limbs, fo exactly refembling that which is fometimes confequent to difease of the vertebræ, that I thought it right to examine the fpine. I ftruck with my finger the fpinous process of each lumbar vertebra, and upon touching one in particular, the patient complained of great pain; but preffure

preflure on the contiguous vertebræ alfo caufed much uneafinefs. Under these circumftances I placed a blifter on each fide of the ipine, and kept up a difcharge from the furface by dreffing it with favine cerate. Thefe means, with reft, relieved her fufferings; but, as her health declined, the went into the country, where fhe foon became much better. The blifters were now fuffered to heal, and the fhortly afterwards had recovered fo much, as to take long rides on a rough-going horfe. She returned from the country in good health, and was both mufcular and fat. About a year afterwards fhe was fo ill, in the fame way, that fhe wished to have iffues made in the back: but I would not confent to this, from knowing that the bone could not be difeafed. Of this return of pain in the back, and weaknefs in the lower extremities, the again got well, upon amendment of her health in general. Since that period, now five years ago, fhe has been, fometimes, very well, at others, pale and emaciated; and these changes have corresponded with the natural or deranged ftate of her bowels.

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CASE.

I was confulted on the cafe of a young lady, who had been bliftered feverely for a pain at the bottom of her back, which was chiefly felt at the junction of the ilium and facrum. It was fupposed, that difease had taken place in the bone from fome injury, and had affected the facral nerves: for fhe could not ftand without fupport, fo great was the weaknefs in the front of the thighs. There was no projection of the vertebræ. If the facral nerves had been affected, the leg ought to have fuffered the greatest share of pain and weakness; but that was not the cafe. She had no appetite; her tongue was greatly furred; her bowels coftive ; and pulse generally 110. I ftrongly objected to making iffues in this cafe; but as the patients' fufferings increafed, it was done. She went into the country, and died in four or five months. The bone was found, upon - examination, to be perfectly healthy; but the mefenteric glands and lungs were difeafed, and it was concluded that the died of confumption,

fumption. I could not learn the flate of the liver, nor do I know whether its appearances were particularly attended to.

CASE.

A young lady had been confined about fix months to her chamber, on account of pain in the loins, and weakness of the lower extremities, which prevented her from standing or walking. The weakness of her limbs had been gradually increasing for a year and a half, before it became fo bad as to make her incapable of moving about. Iffues had been kept open, during that time, on each fide of the fpine; but, as the patient got no better, my opinion was asked, respecting the feat of the difeafe of the bone : for it was concluded, that the ifiues had only failed from not having been made in the right place. I found, upon inquiry, that the chief feat of her pain was in the posterior edge of the liver. Indeed, that vifcus was enlarged, so as to be felt in the epigaftric region, and fo tender as to caufe much

much pain on being compressed, at any part, along the cartilages of the ribs. Her tongue was furred; her appetite deficient; digeftion bad; bowels coffive; and ftools black, or elfe untinged with bile. I had no hefitation in advifing, that the iffues fhould be difcontinued; and that attention should be chiefly directed to rectify the diforder of the chylopoietic vifcera. Mild mercurials and aperients were given, by which, with other means, fhe got materially better in health, and was able to walk about as well as ever. The gentleman who attended this patient, met me accidentally, two months afterwards, and informed me that fhe was quite well. I faid, that as her difeafe had been a long time in forming, it could hardly be expected that fhe fhould recover fo fuddenly. He confidered this expreffion as implying fome doubt of his accuracy, and, therefore, fent the patient to me in the morning. She came from Lambeth, in a hackney coach, and looked very well: fhe obferved, that long before her confinement, fhe could not have borne the agitation of a carriage; but that now, fhe did not feel it. I have (Suries

I have been informed, by feveral intelligent ftudents, that fimilar cafes have occurred in the hofpital: as I was not a witnefs of thefe, I fhall not relate them. I fhall, however, mention one, which I faw, and fuperintended myfelf; although it is, in fome meafure, imperfect, as the patient quitted the hofpital fuddenly, without our knowing where he went to.

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Thomas Crighton, aged twenty-three, was admitted into St. Bartholomew's Hofpital, on account of a palfy of his limbs. About a year before, while the ufe of his limbs was yet unimpaired, he was attacked repeatedly with violent pain in his bowels; uniformly preceded by coftivenefs, and, generally, terminated by a copious difcharge of loofe, fetid, black ftools. The relief afforded by the diarrhœa was fpeedy and uniform. In the courfe of fix months his lower extremities became affected with occafional twitchings, and he found that he could not regulate their motions in walking: this increafed to fuch a

degree

degree as to make him incapable of taking any exercife. He had, at the commencement of his illnefs, a confusion of vision; and a constant and violent pain in the head. The former fymptom increafed fo much, that he could difcern no object diffinctly; a candle, for instance, although held near him, appeared as large as the moon. The fenfation of his lower extremities continued perfect; but the actions of the bladder were no longer under the controul of the will; the urine fometimes flowing involuntarily; and, at others, being retained for fome hours, with confiderable pain. He, afterwards, began to lofe the ufe of his upper extremities : the left hand and arm were more affected than the right; but there was no difference in the affection of the leg of the fame fide. His fpeech. alfo, became much impaired; he hefitated and faltered confiderably, and the tones of his voice were irregular, fo that, at length, he could fcarcely make himfelf underftood. At the time of his admiffion into the hofpital, there was an entire loss of voluntary motion in the lower extremities, and a great diminution in that walking: this mereated to fuch a

that of the upper. The bowels were deranged; there was conftant head-ache; the fpeech was very indiffinct; and vision fo imperfect, that he could not read the largest print. An iffue was made in the neck, and fome medicines were preferibed, under the direction of the physician. As the treatment did not prove beneficial, I was defired to examine the fpine, and found fuch a curvature and projection of the spinous processes of the upper lumbar and lower dorfal vertebræ, that, I thought, the bodies of those bones must be difeafed. I was, therefore, inclined to attribute the paralyfis of the lower extremities to this difease of the fpine; and, confequently, directed, that iffues fhould be made on each fide of the projecting vertebræ. As this fuppofition would not account for the paralytic affection of the parts above, and as the bowels were deranged, I ordered two grains of calomel with eight of rhubarb, to be taken twice a week, and fome infufion of gentian with fenna, occasionally. After using these medicines, for about three weeks, his bowels became regular, the biliary fecretion

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healthy, and his appetite good. He could move his hands and arms nearly as well as ever; and his eye-fight was fo much improved that he could read a news-paper; indeed, it was nearly well. The functions of the bladder were completely reftored *; his fpeech became articulate; and, his general health, in every refpect, much improved. He remained. in the hospital about two months, but with very little amendment in the ftate of the lower. extremities, when his friends fuddenly removed him, on account of fome difagreement with the nurfes, and I was unable to learn whither they had conveyed him.

The hiftory of the preceding cafe was taken, by Mr. Cruttwell, who had been for feveral years a most industrious student at the hospital, and whofe accurate obfervation and extenfive information induce me to place entire confidence in any statement of a cafe which I

* I have feen feveral cafes which induce me to believe that the weakness of the sphincter vefice, which occasions young perfons to void their urine during fleep, very frequently arifes from the fame caufe.

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receive from him. To that gentleman I am, alfo, indebted for the following particulars relating to a patient, who died fome little time ago in the hofpital, and whofe body was examined. The diffection ferves ftill further to elucidate my prefent fubject.

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and the pain in her head, with which file was

Elizabeth Griffin, twenty years of age, was admitted into St. Bartholomew's hofpital in August, 1805, on account of an inability to move her lower limbs; which was fuppofed to originate from a difease of the spine. On examination, however, there were no appearances, which indicated caries of the vertebræ. Her voice was, at times, confiderably affected : and the was fubject to occafional attacks refembling, in fome degree, epileptic paroxyfms. The affection of the limbs was liable to confiderable variations. At times, as the affured me, fhe could walk acrofs the ward with very little difficulty; at others, fhe could not even ftand without affiftance. Her tongue was extremely, and, I believe, conftantly white; her

her pulse natural. Her bowels were, generally, coffive, and it was neceffary to employ active medicines in order to procure ftools, which were always of a dark colour. A flight temporary diarrhœa fometimes happened, and fhe invariably remarked, that the eafe or difficulty with which fhe could walk, and the pain in her head with which fhe was troubled, were in exact conformity to the ftate of the bowels, all the fymptoms being relieved by the diarrhœa, and returning as the bowels became again coftive. There was an appearance of irritability and languor in the eye, which I have before observed in these cafes, and the pupils were generally much dilated. After the patient had continued in the hofpital about feven weeks, fhe was attacked with fever, and died. To this brief account of the fymptoms, I now fubjoin the diffection.

No difeafed appearances were obferved in the brain, though it was examined with the most particular attention : neither was there any difease of the vertebræ. No difease, in short, was observed except in the abdominal viscera. The

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The chief morbid appearance, in them, confifted in an ulcerated flate of the villous coat of the ilium near to its termination in the cæcum. The ulcers were numerous, and fituated where the mucous glands are chiefly found. The internal coat of the large inteffines, alfo, appeared inflamed.

The liver was healthy in its ftructure. In the gall bladder about one ounce and a half of a light green ferous fluid was found, which had not in the leaft degree the foapy, or mucaginous feel of bile,

Cafes, like thole which have been related, are not, if I may judge from my own experience, at all uncommon. They fufficiently prove, in my opinion, that local nervous diforders and mulcular debility may arife from a general diforder of the health, in which the digeftive organs are generally much affected. This diforder, as has been ftated in the preliminary obfervations, may, fometimes, be the caufe, and fometimes the effect, of the nervous affection. In either cafe, however, its correction rection is of high importance in the medical treatment of the difease. In the case, beginning at page 79, as well as in that which immediately follows, diforder of the digeftive organs muft, I think, be allowed to be the caufe of the nervous affection, from the fudden and complete ceffation of the latter, when the cure of the former was accomplished. Decifive inftances like these are particularly valuable; they fhew what great nervous diforder may be produced by that of the digeftive organs, and confequently how much the latter diforder is likely to aggravate the former, when it occurs even fecondarily as its effect. I have feen a confiderable number of fuch cafes, which I cannot relate with precision, because I had not sufficient opportunities of observing the patients, to enable me to note. the progress of the difease with accuracy.

Of thefe I can only obferve, in general terms, that I have feen feveral inftances of pain, imbecillity, and wafting of the mufcles in one of the lower extremities, which were confidered as the effect of difeafe about the hig

hip joint; yet the event proved that there was no organic difeafe of that part. The difease was connected with that state of constitution that I have defcribed, and was amended as the health in general improved. I have also seen several instances of wasting of the muscles of one of the upper extremities in children; fo much indeed were the muscles shrunk, that the bones and joints could be as diffinctly examined as in a skeleton. The local affection in these cases came on fuddenly. I lately faw a little boy, who had had this kind of affection of his left arm feveral years ago, and on whofe cafe I was at that time confulted. The bowels had been violently difordered prior to the paralytic affection, and were, at the time I faw him, in an extremely unhealthy ftate. I recommended that the chief attention should be paid to correct the errors of these organs, which was in fome degree accomplished, and that the arm fhould be fupported by a fling. The arm gradually recovered, and though it is not at prefent quite fo large and firong as the other, yet the difference is fo flight, that I fufpede

that it would not attract the attention of a common obferver. About fix months ago Ifaw a little boy very fimilarly circumftanced, and in his cafe, the arm quickly recovered its powers of motion, as the ftate of the digeftive organs became healthy.

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I have alfo feen cafes in children, in whom, after fome general diforder of the health, accompanied by derangement of the flomach and bowels, a mufcular affection of the extremities has taken place, like that which produces the varus and valgus; I mean a predominance of the actions of fome mufcles over others, producing diffortion of the limb. I have feen this happen fometimes in one, fometimes in both the lower extremities. I have alfo feen the arm fimilarly affected.

That the local fymptoms in those cafes, as well as in those which have been more fully detailed, arise from a nervous affection of the brain, and not from any cause acting locally on the nerves of the affected part, will, I believe, on due confideration be granted. I fusped

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I fufpect however that fome perfons may hefitate to admit fuch an opinion, from the belief that diforder of the brain muft operate generally, and not partially, on the nervous fyftem. Perhaps the contemplation of the confequences of flight apoplectic effusions in the brain, may affift us in forming juft notions on this fubject. Such slight effusions of blood, occurring in various parts of the brain, have been known to paralyze one leg or one arm, or the mufcles of the tongue, or of one half of the face, without affecting the reft of the nervous or mufcular fyftem.

Another opinion which I wifh to be confidered is, whether, when there is confiderable and continued paralyfis, there muft neceffarily exift fome preffure or organic difeafe in the brain. That this exifts in many inftances is undoubted; but the number of cafes in which the paralytic affection is merely nervous, and independent of vifible difeafe, is in my opinion very confiderable. The inftances which have been related warrant this conclusion,

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conclusion, and shew fuch cafes to be more frequent than is, I believe, generally fuppofed. When there is organic difeafe of the brain, the cafe feems to be very hopelefs; and probably no confiderable alleviation of the fymptoms will take place, by that attention to the state of the digestive organs which I have recommended. In dubious cafes, and fuch, on the first examinatian of them, the majority of these occurrences will probably be, it feems right to try the effect of correcting diforder of the digeftive organs, with a view to alleviate nervous irritation, before we proceed to those feverer methods, which the belief of the existence of organic or vascular difeafe in the brain would induce us to institute. For if blood-letting and counter irritation be employed, in order to diminish vafcular action; or if mercury be employed to fome extent in order to induce the abforption of deposited fubstance; these meafures must aggravate that diforder of the general health, upon which, in many inftances, the nervous affection depends.

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My object, in the recital of the foregoing cafes, is to point out a caufe of local paralyfis, which from its locality would, I fufpect, be generally attributed to fome local diforder of the nerves of the affected part. Such an opinion of the nature of the complaint would confequently lead to an erroneous treatment. If my opinion of the nature of these cases be correct, they can only be fuccefsfully treated by means which operate upon the conftitution in general. I have particularly recommended that our efforts should be directed to correct any errors that may exift in the functions of the primæ viæ, for reasonsthat have been flated in the preliminary obfervations. Of the efficacy of fuch endeavours I have feen many more inftances than I have brought forward; indeed the propriety of fuch attempts feems fo obvious, that I doubtnot but they will be made, and the effect of them, will, by that means, be generally demon-It is right however to mention, ftrated. that in fome cafes to which I have attended, I have been foiled in my endeavours to correct, by the fimple measures which I have related That

related in the introductory remarks, the diforders of the digeftive organs; and in thefe I thought that the diforder of the digeftive organs depended on fome eftablished difease in the brain.

of the nature of the complaint would con-

In other cafes, when the functions of the digestive organs had been partially corrected, the nervous and muscular affections were mitigated, but not cured. Indeed fufficient time has not yet elapfed to enable me to form a probable opinion, as to the event of fome cafes, to which I allude. I have also met with one inftance, in which the bowels became moderately correct in their functions, without any evident amendment in the ftate of the limbs; and I have known two inftances of perfons, who were fuddenly feized with paralyfis of the lower extremities, apparently dependent on general nervous diforder, in which the digestive organs fcarcely seemed affected.

In feveral of the cafes which I have related, there were nervous pains in the affected limbs. That

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That local nervous pains may depend on general nervous diforder feems to me very probable; at leaft, I can take upon me to affirm, that I have known nervous pains cured by correcting the diforders, which in thefe cafes exifted in the digettive organs. In the cafes alfo of tic douloureux which have fallen under my obfervation, there has been great diforder of the digettive organs; and I have known cafes refembling those of tic douloureux cured by correcting the unhealthy ftate of those organs.

I wifh finally to excite the attention of Surgeons to the flate of the bowels in tetanus. The occurrence of this diforder occafionally, when the wound which produced it is healing, feems to indicate that the effects, which have been produced by its irritation, continue. It has been, I think, fully fhewn, that local irritation may diforder the digeftive organs; which diforder continuing, and aggravating the affection of the fenforium, may poffibly lead to the production of tetanus, at a time when the wound is no longer irritable. In four four cafes of tetanus, in which I had an opportunity of inquiring into the ftate of the bowels, the evacuations from them were not like fæces. I with to propofe, in inveftigating the caufe of tetanus, as a queftion, what is the ftate of the bowels between the infliction of the injury and the occurrence of that dreadful malady *?

of the digentive organs ; and i have brown

* Such cafes as I have related, with others that it would be foreign to my prefent purpose to mention, have impressed the opinion on my mind, that diforders of the digeftive organs may originally caufe, or may fecondarily aggravate, a nervous diforder; and produce, as has been " mentioned, in the nervous fystem, an abolition of the functions of the brain; or a flate of excitation caufing delirium, partial nervous inactivity, and infenfibility; or the oppofite fate of irritation and pain; in the mufcular fyftem, weaknefs, tremors, and palfy; or the contrary affections of fpaims and convultions." Could thefe circumftances be proved, it would be fcarcely neceffary to add, that those painful affections of parts, to which perhaps fome pre-difpofition exifts, may be excited in a fimilar manner; fuch as gout and rheumatifm. Indeed rheumatic pains are very ufually concomitant upon that flate of conflitution, which exifted in the patients, whofe cafes I am relating.

which diforder continuing: and aggraviting the affection of the feuforium, may pofibly lead to the production of tetanus, at a time when the wound is no longer initable. In star

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SECTION II.

I shall next speak of those cases, in which local diforders of the head, produced by blows, are kept up and aggravated by affections of the digeftive organs. After what has been observed respecting the reciprocal influence of difeases of the brain, and of the chylopoietic vifcera, it will readily be admitted, that an injury of the former may difturb the functions of the latter. Thus, concuffion of the brain occasions vomiting as one of its immediate confequences, and will also be found to produce almost constantly, at a more remote period, that diffurbance of the digeftive organs, which I have defcribed in this paper. If the disturbance be only moderate in degree, but , continued, it will often re-act upon the head,

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fo as to occafion an irritable ftate of the injured parts, and impede their recovery.

In many cafes of blows upon the head, a flow inflammatory affection continues in the parts chiefly injured, and ultimately produces destructive difeases. The bone fometimes becomes difeafed, or an exoftofis grows from its internal table; the dura mater becomes thickened, or matter flowly collects on its furface. Such local diforders produce others of a more general nature, and deftroy the patient. Thefe occurrences are however, in my opinion, rare in comparison with the cafes first described; in which a painful state of the injured parts is kept up by means of diforder exifting in the digeftive organs. The neceffity for an accurate diferimination between these diforders, must strike us on the most superficial view of the fubject; for the lowering treatment which is neceffary in the first and rarer cafe would be detrimental in the fecond and more frequent. By attending to the state of the digeftive organs in these dubious cases, we may be enabled to form a probable opinion

nion of the nature of the local complaint; for if there is nothing wrong in the general health to excite or maintain it, we may reafonably conclude that it is merely local; on the other hand, the inefficacy of evacuations in curing the local difeafe would naturally fuggeft the opinion, that it proceeds from irritation, and is dependent on a diforder of the health in general. It fhould be further observed, that when the local difease is of an inflammatory nature, and likely to induce morbid alterations in the ftructure of the affected parts, still it may be maintained and aggravated by diforder of the digeftive organs. I have very frequently feen patients fuffer fo feverely as to warrant a fufpicion, that local difeafe of the most formidable nature existed ; in thefe the ufual methods of treatment were ineffectual; and they recovered fuddenly or flowly, in proportion as the flate of the digeftive organs was corrected. I shall relate fome examples of the difeafe under confideration, which will enable the reader to identify the cafe, when it occurs in practice.

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non of the naturat of the local complaint; for if there is not **A B A D** in the general health to excite or maintain it, we may rea-

A young gentleman, about ten years of age, fell out of a window, fix feet high, and ftruck the back part of his head against fome ftones. He was ftunned by the blow, but perfectly recovered from the effects of the accident by bleeding, purging, and a low diet. He caught the fcarlet-fever about fix weeks afterwards; and recovered from that alfo. But, whilit he was convalefcent, the pains returned in that part of the head which had been ftruck, with fo much violence as to induce the belief that fome ferious local mifchief would enfue. After they had continued without abatement for a few days, I was defired to fee him. He was lying in bed, and could fcarcely be prevailed on to lift his head from the pillow. The integuments of the occiput were fo tender, that he would hardly allow me to examine the part; I afcertained, however, that there was no fluid under the fealp, nor any inequality in the bone. He dozed a good deal, and lay in a AGAD. comatofe

comatofe ftate, but was occafionally reftlefs. His pulfe was very frequent, his fkin hot and dry, and his tongue covered with a thick yellow fur. He breathed almost without moving the diaphragm, and complained much if the epigastric region was compressed. He loathed food; his bowels were costive, and his stools of a blackiss of calomel at night, and draughts with rhubarb and kali vitriolatum in the morning. The tongue foon became clean, and the stools natural; his appetite and spirits returned, and he no longer complained of any uneafines in the head.

This cafe prefents us with a ftriking example of what I believe to be a common occurrence; I mean, a difordered ftate of the digeftive organs taking place fubfequent to a confiderable febrile affection. Indeed, when we reflect in how weak and irritable a ftate the brain muft be left upon the fubfidence of fuch a diforder, and how much the chylopoietic vifcera muft fuffer from the impaired and difordered energy of the brain, we might naturally

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naturally expect fuch a derangement of the functions of the digestive organs to enfue. When fuch diforder happens in this manner, it frequently produces many local difeafes, to which the conftitution may perhaps be predifposed; a circumstance I shall speak of in a future part of this paper. In the prefent cafe, it brought on a painful state of parts recently injured, with a confiderable degree of fever. That the morbid ftate of the ftomach, and bowels was the caufe of both is fairly to be inferred from their ceafing fo immediately, when the diforder of the digeftive organs was corrected. A cafe of this kind, prefenting an example of fudden recovery, is particularly valuable, because it clearly demonstrates the caufe and the effect in fuch difeafes. The caufe can indeed be feldom fo fuddenly removed; and the gradual ceffation of it under any plan of treatment leaves room for a variety of conjectures, as to the mode of cure or of recovery from those diforders, which I have confidered as effects. I could relate many cafes of fimilar but lefs fevere fymptoms produced by the fame caufe, which gradually got

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got well, in proportion as the diforders of the digeftive organs were corrected. As it does not, however, appear to me neceffary to accumulate inftances to prove fo obvious a fact, I shall content myself with adducing two more cases, to exhibit such effects in different points of view.

CASE.

A lady fell down in frofty weather, in confequence of her feet flipping from under her, and the occiput ftruck against a smooth stone pavement. She was stunned by the fall, but soon recovered; nor had she for some weeks the fevere symptoms, which appeared in the fequel. This circumstance shews that there was nothing produced by the blow that necessarily caused the subsequent symptoms; which must therefore be attributed to inflammation or irritation taking place afterwards. After some weeks had elapsed from the time of the accident, the parts which had been struck became extremely painful; and the

the pain extended forwards over the fcalp to the right eye, the fight of which became imperfect. The integuments upon which the blow had been received were extremely tender, and the patient became faint when they were examined even flightly. Thefe circumftances naturally induced a belief that fome difeafe was taking place; and bleeding and purging were employed to prevent its progrefs. The fymptoms were mitigated for a time by thefe means, but they quickly returned with as much feverity as before. After three months the patient came to London, fully perfuaded that nothing but an operation would be of permanent benefit. When I first faw her, she tottered in moving from one chair to another, and replied to queftions with hefitation and effort. Her eye-fight was fo much affected, that fhe could not read; and the entertained an apprehention that the thould lofe her fenfes. Her tongue was but flightly furred; her bowels were habitually coffive, and the ftools dark coloured. It was evident where the injury had been received; for the aponeurofis had been feparated from S.M. the

the pericranium by an effusion of blood; and, though this blood had been abforbed, the detachment of the fcalp was diffinguishable by the touch. No inequality was perceptible in the furface of the bone. When I mentioned my fufpicion that these fymptoms were rather the effect of irritability of conftitution, dependent on the ftate of the ftomach and bowels, than of local mifchief, fhe gave not the least credit to the opinion; but faid she was perfuaded that the bone was flarred, and that three fiffures extended in different directions. I ordered her to take five grains of the pilul. hydrarg. every fecond night, and a draught twice a day, containing one ounce of the compound infusion of gentian, two drams of the infufion of fenna, and one dram of the compound tincture of cardamoms. Thefe medicines produced a confiderable purgative effect. On the fecond day there was but little pain in the head; the patient walked about the room very fteadily, and had read a newfpaper in the morning. When I asked her opinion of this furprifing alteration, the imputed it to the evacuations which had taken place; but the was fill perfuaded that the bone

bone was injured, and ftill apprehenfive that, without fome operation, fhe fhould ultimately lofe her fenfes. The medicines were continued in fuch quantity as to procure only one alvine evacuation daily. A fortnight elapfed under this plan of treatment, during which the ftools became nearly of a natural colour, and the patient's health was confiderably amended. There were times when no uneafinefs was felt in the head; and, during fome nights, the pain was fo trivial as to give but little interruption to her fleep. It was, however, occafionally diffurbed by pains, which were, in her opinion, as intense as at any former period of the complaint. Her pulfe was good, and her muscular strength greatly improved. The occurrence of the pain in paroxyfms ftrongly impreffed me with the belief that it was nervous, rather than depending upon local difeafe. Under these circumstances all ideas of an operation were difmiffed from my mind, but it was far otherwife with refpect to the patient. Being obliged to return into the country, fhe confidered the poffibility of a relapfe with horror; and was fo convinced that the bone had been injured, that fhe

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the earnestly requested it might be examined. were it merely to afcertain what was the fact. I faw no objection to this examination, but thought, on the contrary, that advantage might poffibly arife from an incifion, which would loofen the tenfion of the fcalp, and produce a difcharge that might relieve the irritation of the part. I accordingly made an incifion of a femicircular form, extending farther back than the part which had been ftruck, and turned up a portion of the fcalp, fo as to fee the bone, covered by its pericranium, to the extent of a crown piece. The bone was uninjured, and, together with the pericranium, appeared perfectly natural. The fcalp being replaced, the wound was dreffed fuperficially, without any attempt to favour the union of the parts. If they united under these circumstances, there would be an additional reafon for believing, that neither the bone nor the fubjacent parts were difeafed. The pain was as fevere for the two first days and nights after this examination as it had been at any former period; it abated when the wound began to difcharge, and had entirely

tirely ceafed on the fifth day. This ftate of tranquillity continued as long as the patient remained in town, which was about three weeks after the division of the fcalp. The wound at that time had nearly healed. She has fince had occasional returns of pain in the head when her general health has been difordered, but never to that degree as to induce a fufpicion that any local vafcular difeafe existed.

To exhibit the effects of the re-action of diforders of the digeftive organs upon those of the head in another point of view, I fubjoin the following cafe.

CASE.

May 29, 1805, a labouring man, aged forty-five, fell from a confiderable height upon his head, and was immediately brought to St. Bartholomew's Hofpital. No fracture of the fkull could be difcerned: and the patient feemed to labour under the effects of violent concuffion of the brain. By venefection

fection and other antiphlogistic means, he foon recovered his fenfes. Every thing went on very favourably for three days, when he was attacked with fhivering, nausea, pain in the head, impatience of light, and other fymptoms, which ufually are confidered as denoting inflammation of the membranes of the brain. He was confequently bled; and had a blifter applied on the head. He was fuddenly feized in the evening with a more excruciating pain in the head, which, after lafting half an hour, was fucceeded by convultions, fo violent that three men could fcarcely hold him. When the fit abated, he expressed himfelf much relieved, and faid that he was eafier than before its acceffion. Some calomel and rhubarb were given to obviate a coffive ftate of his bowels. On the next morning (June 2nd.) he had a return of the pain and convulfions; and the fymptoms were fo violent, that he was bled four times in the course of the day. This treatment, however, had no effect in diminishing the pain and other fymptoms, and another fit of convultions took place in the evening. The purgative operated 01 on

on the fucceeding night, and brought away a large quantity of highly-offenfive feculent matter of a light greenish-yellow colour. On the 3d of June his breath was extremely offenfive; his ikin hot and dry; his pulfe quick; his tongue thickly furred; and he had great tendernefs in the epigaftric region, and right hypochondrium. He was ordered to take two grains of calomel immediately, and a faline medicine at intervals; this produced two motions in the courfe of the day. By purfuing this plan for a few days, the ftate of his bowels was rendered more regular, and the difcharges acquired a healthy colour; in proportion as this was effected, the tenderness of the abdomen was removed, and the tongue became clean. He had no return of convultions, the pain and other fymptoms fubfided, and in a fhort time, when the digeftive organs had been reftored to a natural state, he went out of the Hospital perfectly well.

Cafes of this description have been noted from the earliest ages. Many passages are

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to be met with in Galen, that flew that he was well acquainted with the circumftances that have been flated in this fection. Bertrandi * has related inflances of absceffes taking place in the liver confequent to injuries of the head. Andouillé + relates additional cafes, and makes further obfervations on the fame subject. Of late, Richter ‡ has delivered fimilar opinions, and has directed the practice which fhould be purfued, when the head is difordered by the re-action of affections of the digeftive organs. Still however these circumstances feem to me to be stated rather as occafional, than as occurrences which are common and naturally to be expected, and I therefore think myfelf warranted in fuppofing, that they have not made a fufficient imprefion on the minds of Surgeons, in this country at leaft.

I beg leave, in the conclusion of this fection, to repeat what was faid in the former

one,

^{*} Mémoires de l'Academie de Chirurgie, tom. 3, p. 484.

[†] Ibid, p. 506.

t Chirurg. Biblioth. b. viii, p. 538.

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one, viz. that I confider the difeafe as depending on nervous irritation in the parts affected, which is either caufed, maintained, or aggravated by diforders of the digeftive organs. Yet as the local difeafe muft be regarded as chiefly nervous, it might, in fome rare inftances, exift independently of any manifeft diforder of thofe organs. I may further add, that much nervous irritation in any part generally excites vafcular action. It becomes therefore highly important to attend to the nature and cure of fuch diforder, as it might ultimately lead to the production of organic difeafe, which would deftroy the patient.

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SECTION III.

I proceed to fpeak of fome difeafes of the throat, fkin, and bones, which fo much refemble venereal complaints, that they are frequently treated as fuch; but which take place without any reafonable ground for attributing them to the abforption of any morbific poifon. A diforder of the digeftive organs conftantly exifts in these cases; and produces, or at least aggravates and protracts a ftate of weakness and irritability of conftitution; to which the origin of the difease must undoubtedly be referred.

CASE.

A gentleman refiding in the country, who had been many years married, and whofe I moral

moral character prevented any fufpicion of his having exposed himself to venereal infection, had an ulcer in the right tonfil, poffeffing every character of a truly fyphilitic fore. The figure of the ulceration was oval; it had extended itfelf deeply, and prefented a furface covered with adhering matter, and without the leaft appearance of granulations. It had continued three months without amendment, although various medicines had been employed during that period. These circumstances impreffed the minds of the medical attendants with an opinion, that the difeafe was venereal. On me they had a contrary effect. I thought that a venereal ulcer would have become materially worfe in that time, as mercury had not been used to arrest its progress. Finding that the patient had a furred tongue, and diforder of the digeftive organs, I recommended, as the first object of attention, the correction of that derangement of the ftomach, from which the fore-throat had probably originated. The patient went to the fea-fide, where his throat was alternately better and worfe; but the dimensions of the Inon

the ulcer were not enlarged. Three months elapfed before I faw the patient a fecond time; when I told him, that my argument against the complaint being venereal was greatly firengthened. It was manifest that the diforder, to which I had imputed the fore, still existed. Being unwilling however that the refponfibility should rest entirely upon myfelf, I advifed him to confult another furgeon, who, judging of the nature of the fore from its appearance (which indeed was strikingly characteristical of venereal difease), recommended a courfe of mercury. The patient underwent, in confequence of this advice, a regular mercurial courfe; during which the fore got well. Between two and three months afterwards another fore formed in the palate, which had the characters of a venereal ulcer, in a ftill more firking degree, if possible, than the former. It was fituated just where the fost palate proceeds from the bone. It was of a circular figure, and fo deep as to expose the bone. The circumference of the ulcer was tumid and inflamed; its edges were not fmooth, 12 . but

but had a tendency to ulcerate. There was no appearance of granulations, and the difcharge adhered to the furface of the ulcer. The patient now applied to me again; when I repeated my original opinion, that thefe fores depended on the ftate of his health in general. He confulted another Surgeon, who recommended the ufe of the Lifbon Diet-Drink, with the application of the oxymel æruginis to the part; under which treatment the ulcer healed; and no other complaint has fince occurred, though two years have elapfed.

CASE.

A gentleman, who was habitually fubject in a great degree to diforder of the digeftive organs, had an excoriation of the prepuce, which had continued about three weeks, when copper-coloured eruptions came out all over his body, fo ftrikingly fimilar to thofe which are venereal, that fome of his medical attendants recommended the immediate use of mercury. It was however agreed

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to delay the mercurial courfe for a little time; and to give the patient half a grain of calomel, with three grains of hemlock night and morning, and a folution of magnefia vitriolata in mint-water, fo as to keep the bowels freely open. The fpots began to die away almost immediately, and foon difappeared altogether. The patient then mentioned that he had feveral times had the fame kind of eruption, which had difappeared in like manner upon taking fome opening medicines.

In calling the reader's attention to those difeases of the bones which refemble fyphilitic affections, I shall not pretend to relate any case in detail; for Surgeons can feldom trace the progress of these diseases for themfelves, but are obliged to rely on the doubtful history given of their patients. I shall endeavour to sketch the principal parts of the subject, referring to particular cases, merely to shew that the picture is not drawn from fancy, but is copied from nature.

I have been frequently confulted on account of fuppofed venereal affections of the bones; where

where the periofteum has been thickened and tender, and the bone enlarged, and the concomitant pains have been fo much aggravated at night as to deprive the patient of reft. The hiftory of the cafe has removed all fufpicion of a venereal origin; while general indifpofition, a furred tongue, lofs of appetite, and other attendant fymptoms, have clearly indicated great diforder of the chylopoietic vifcera, By attending to the ftate of the digeftive organs in these cafes, the patient's health is amended; the general rheumatic pains are diminished; sleep is procured; and the difease has receded almost entirely. After fome time has elapfed, the bone may again fwell, the fwelling may again be checked, and return no more. Perhaps fimilar difeases may take place in other bones, at times very remote from the first occurrence of the diforder. If mercury be not employed, there are decifive circumftances in the hiftory of the difeafe, which prove that it is not fyphilitic. Sometimes fuppuration takes place, and exposes the bone: this occasionally proves a kind of crifis to the difeafe at that part. But the circumfrances of these difeases are to variable, as to preclude

preclude a complete enumeration of their fymptoms.

I shall briefly mention the cases of two patients, by whom I was confulted about the fame time, in order to identify the difeafes to which I allude. Both these gentlemen had been married for many years; and there was not the leaft reafon to fuppose that any morbific poison had been imbibed. They became generally indifpofed, had reftlefs nights, pain in the head and about the shoulders; and a painful thickening of the periofteum of the tibia, with enlargement of the bone, took place. The chylopoietic vifcera were difordered in both thefe cafes. One gentleman had used mercury repeatedly to a confiderable extent, which produced a temporary alleviation of his difeafe; but his fufferings feemed to be augmented upon the ceflation of the mercurial excitement. The other patient never used any mercury. They both experienced a confiderable mitigation of pain from those medicines, which corrected the state of the chylopoietic organs. Their difeafes were checked, and never became again fo bad as before

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before attention had been paid to the flate of the vifcera. Both these patients were better or worfe as the flate of the bowels varied; and they both gradually, but flowly, recovered.

Similar difeafes are fo common, that I believe every furgeon of experience will admit that affections of the bones, with wandering pains, often occur from general diforder of the health. I have never feen thefe cafes unaccompanied by diforder of the chylopoietic organs; and I have always found them moft benefited by whatever has tended to rectify the functions of thefe organs.

There was no reafon, in any of the cafes alluded to, to fufpect the abforption of poifon. I will add another, to corroborate this flatement. A gentleman, who had been married about eight years, and had no venereal difeafe during that period, was feized with a violent fever. Shortly after his recovery, a thickening of the periofteum on the parietal bone took place. The fcalp was alfo much fwollen, fo as to threaten fuppuration. He was at this time

time in ill health, and had great derangement of the digeftive organs. By fuch attention to this latter diforder as I have mentioned in former cafes, this fwelling fubfided, and no trace of it remained. The patient afterwards went into the country, where his health was still more amended. In about twelve months he had feveral tumours of the fame kind in different parts of the cranium; one alone threatened to fuppurate: for thefe he underwent a mercurial courfe, which relieved them, fo as to induce him to perfeyere in it to an extent, which almost constantly cures venereal difeafe. His health, during the latter part of the mercurial courfe, being much difordered by the medicine, his difeafes became proportionally aggravated; he therefore defifted from the use of mercury; at which time his complaints were but little better than at their commencement. These difeases, however, gradually got well in the fpace of little more than a year; still the patient continued in a bad state of health, the fymptoms of which, were a furred tongue, indigeftion, and faulty biliary fecretion.

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I add another cafe, which came under the observation of Dr. Baillie. A student of medicine, who attended the lectures in Windmillftreet, was observed to look very much out of health; and, on enquiry, it was found that he had nodes upon his fhins, which fo exactly refembled those that are venereal, that no doubt was entertained of their being of that nature. It was therefore earneftly recommended to him not to delay the mercurial courfe, which feemed requifite for the cure. He was very reluctant to comply with this advice, and declared upon his honour that he had fimilar fwellings before he had had any fexual connection. This declaration made the mercurial plan be laid afide; and the nodes got well by a ftrong decoction of farfaparilla, without a fingle grain of mercury being employed. Now, if this account be accurate, it thews that difeafes like fyphilis can arife from diforder of the health, even without any fexual intercourfe.

All furgeons of experience will, I believe, admit that difeafes refembling fyphilis occur from

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from diforder of the health in general. In all the cafes which I have inflanced there was not the leaft reafon to fuppofe that any morbific poifon had been imbibed to produce the difeafes which exifted. I wifh much to have this point afcertained or refuted by the general experience of furgeons. The cafes, which would tend to establish it, must be of rare occurrence. All the inftances, to which I have alluded, occurred in men who had been long married, and on whose veracity I could rely. There is alfo, in my opinion, fufficient intrinfic evidence in each cafe to prove that the difeafe was not venereal. It was this kind of cafes which I had in view in my laft publication, in difcuffing the queftion whether those difeafes, which may be denominated pfeudofyphilitic, arife from fome modification of the venereal poifon, or from a peculiarity of conftitution in the patients, who are exposed to the action of truly fyphilitic virus. I have there faid, that "it deferves to be observed that difeafes refembling fyphilis do occur, without any reafon to suppose that any morbific poifon has been admitted into the fystem." I have I have been induced to dwell upon this fubject, which may perhaps be confidered more fpeculative than useful, because, if the opinion were verified, it would explain the occurrence of pfeudofyphilitic difeafes in a very ftriking and fatisfactory manner. If local difeafes, refembling fyphilis, may take place in the throat, ikin, and bones, from a certain ftate of weaknefs, and irritability of conftitution, then various modifications of animal matter being abforbed may fo diforder the general health as to induce fuch a ftate of weaknefs and irritation, which is likely to produce those fymptoms; and fuch fymptoms are rather to be regarded as arising from the propenfities of the conftitution, than from the peculiar properties of the matter which is imbibed. It is fhewn in my former publication, that the poifon which produces pfeudofyphilitic fymptoms is fometimes abforbed without an evident breach of furface in the fkin; fometimes from a trivial fore which foon heals; whilft, in other cafes, it produces local fores of various and diffimilar characters.

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If, however, the reader fhould doubt whether difeafes refembling fyphilis may arife without the abforption of infectious matter, that doubt will probably be removed by the facts which are recorded in the next Section; for it will there be fhewn that various and diffimilar local difeafes originate from the fame fource, I mean from a fimilar diforder of the health in general,

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The next class of cafes, to which I shall call the reader's attention, is that of unhealthy indurations, absceffes, and fores. Sometimes but one local difease of this description exists, but in general they break out in fucceffion in different parts of the body. The circumftance of their fucceffive formation is, I think, a proof that they depend upon fome error in the health in general; and I have accordingly obferved that they are feldom, if ever, unattended with diforder of the digeftive organs. The imperfect history, which the patients generally afford of their previous state of health, will not enable us to determine with certainty, that the diforder of the bowels was the caufe of their ill health and fubfequent

fubfequent local difeafes; but I can confidently affirm, that those difeases in general become tractable, in proportion as the diforder of the vifcera is corrected; and that frequently no new local fymptoms occur, after fome attention has been paid to the flate of the digeflive organs. The difeafes to which I allude, have not been defcribed in books of Surgery; and indeed it is fcarcely poffible to delineate with precifion their various appearances. It would be quite impracticable to defcribe all the difeafes which make the fubject of the prefent fection; namely, unhealthy indurations, absceffes, and fores. They may be compared most justly, in variety and number, with the infinitely diversified combinations and shades of colour. Yet a brief and general defcription of them will affift to recall them to the remembrance of the experienced furgeon; and to enable the inexperienced practitioner to recognize them when they occur. fluid. Granulations afterwardaid

Some of these affections are quite superficial, occupying merely the skin. The first that

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that I fhall defcribe is, I believe, well known to furgeons, as a difeafe, which is frequently, though not conftantly, cured by giving mercury to fuch an extent as flightly to affect the conftitution. A fmall induration or tubercle takes place in the fkin, and this is followed by the fucceffive formation of others at fmall diftances from the original one. The fkin between thefe tubercles becomes thickened. Chord-like fubftances, which are probably indurated abforbents, may fometimes be felt, extending along the thickened fkin. The tubercles ulcerate, and form foul ulcers, which heal flowly and break out again.

Another fpecies of fuperficial or cutaneous ulcer begins generally in one point, and extends in every direction. The chafm of the ulcer is formed either by a very fudden ulceration, or by floughing. A fore is left, which firft fecretes a fanious, and then an ichorous fluid. Granulations afterwards arife, and the fore heals. The granulations are however indurated and unfound; and when the patient fuppofes that the fore is cured, it is fuddenly reproduced

reproduced by a process fimilar to that by which it was originally occasioned. After fome time the ulcer again heals, and again breaks out. Whilft thefe proceffes are going on in the middle, the fore enlarges in its circumference; the edges, which are thickened, become at times highly inflamed, and either ulcerate or flough. The difposition to difeafe is aggravated by fits, and there are intervals when it is apparently tranquil. When this fore has enlarged to a confiderable extent, in the manner already deferibed, the central parts, which have healed unfoundly, break out into feparate ulcers; and thus prefent an appearance of feveral fores, connected with each other by indurated fkin or newlyformed fubstance.

I shall briefly mention fome of the principal circumstances relating to the last fore of this defcription, which came under my care. The patient, who had been ill for more than two years, and had taken a great deal of mercury, came from the country in very bad health, and with his digestive organs much difor-Another dered.

where the fore broke out again. He then

dered. The fore was fo painful, particularly at night, that he was in the habit of taking a good deal of opium to procure reft. It occupied the back of the hand and wrift. He had had fomewhat fimilar fores on his head and face; but they were nearly healed, though difposed to ulcerate again. By that attention to the ftate of the bowels which I have defcribed, and by dreffing the fore with an aqueous folution of opium, the greater part of it was healed in the fpace of three weeks; and the remainder was fo much amended, and fo little painful, that he had left off his opium fhortly after the commencement of this treatment. As the patient's circumftances made it inconvenient to him to remain in town, he went into the country, where the fore broke out again. He then applied to a perfon who fold a famous dietdrink; and before he had taken twelve bottles, the fore was perfectly healed, and has not fince broke out. The diet-drink, he fays, had no fenfible operation; but his bowels became regular and comfortable, and his appetite amended by taking it.

Another-

Another variety of these fores originates in a more deeply feated difeafe. The cellular fubstance under the skin becomes thickened, and an unhealthy abfcefs follows; after the burfting of which, a foul fore is formed. In confequence of this procefs, the fafcia of the limb is fometimes exposed to view, and feems to have floughed : when the flough has feparated, the difeafe may get well flowly. In many cafes, however, there is no exposure, nor feparation of the fafcia. Sometimes the fore does not extend beyond the limits of the original induration, but heals flowly; while other difeafes of the fame kind occur in fucceffion in various parts of the body. In other cafes, the ulceration of the original fore fpreads along the contiguous parts, whilit those which were first affected get well; and thus the fore affumes an herpetic character. In many cafes the ulceration extends from the whole circumference of the fore, and thus the fear and ulcerated edges have a circular or oval form; in others, the difeafe is propagated in particular directions, fo that the E 2 Jimburger regularite

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ulcerated furface prefents the most irregular and peculiar figures.

Thefe difeafes fometimes are fmall in extent in the beginning, but enlarge confiderably before the fkin gives way; and, when this happens, it proves a kind of crifis to the difeafe, which afterwards heals flowly. In thefe cafes it becomes the object of furgery to bring the difeafe to a crifis, whilft it is yet of fmall extent; which may be effected by producing ulceration of the fkin by means of cauftic.

Some of these fores are formed from difeases beginning in the absorbent glands; in which case the gland, having first been indurated, suppurates and bursts, and ulceration ensures. When this circumstance has taken place, in an absorbent gland of the neck for instance, another ulcer may form, in the manner above stated, in the skin and subjacent parts, without any gland being involved in it. A third ulcer, having a difeased gland for its cause, may form in the vicinity; and thus the difease proceeds without any regularity.

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I once thought it a neceffary but most difficult task for a furgeon to remark the varieties of these diseases, in order to understand his profession, and contribute to its improvement. But, fince I have found that these diseases indicate fome disorder of the health in general, the correction of which is the great object in their cure and prevention, I have perceived that there is less neceffity for undertaking this most arduous investigation; which, indeed, could never be accomplished without very extensive opportunities and indefatigable diligence.

It will be found in the majority of these peculiar difeases, that the patient had been indifposed for some time before the occurrence of the complaint, and, that afterwards the health had become more evidently deranged. The digestive organs are difordered. The tongue is furred at the back part, chiefly in the morning; and the biliary secretion is deficient or depraved. My attention has been directed to the correction of this diforder; and the most beneficial effects have refulted from from this attention. The fores have healed readily in fome inftances; and, in those cafes where many had formed in fucceflion, no new difeafe has in general taken place. In fome few inftances, new fores have formed after the medical treatment of the diforder had commenced, and even after it had been for fome time continued. This probably arifes from the difficulty, which is experienced in correcting an habitual and long continued conftitutional diforder. In fome ftill rarer cafes I have found fimilar but much milder difeafes arife, after the diforder of the digeftive organs had been in a great degree corrected.

Whilft I am writing this, there are four patients, whom I have attended in St. Bartholomew's hospital, with these difeases; which I mention, to fhew the younger part of the profession how frequent they are. The health of thefe patients has been furprifingly amended in a very fhort period, by employing the means which I have defcribed; and the fores have healed rapidly, although nothing but fimple dreffings have been applied to them. It

It is not meant by these observations to depreciate the utility of topical applications to difeafed fores, but merely to fhew how much they depend on the ftate of the health in general; for fome of them, which have remained uncorrected by a great variety of local applications, will get well under fimple dreffings, when the ftate of the conftitution is amended. It is not, however, to be expected that this will generally happen; for local difeafed actions have been excited, are eftablished, and may continue, independently of the caufe which produced them. Topical remedies will, under these circumstances, be employed with the greatest advantage. Again, topical applications are of the highest utility in general practice, becaufe an irritable fore affects the whole conftitution, and aggravates and maintains that diforder by which it might have been originally caufed. The diforder of the digeftive organs cannot in many inftances be corrected, till the fretful state of the local difeafe is diminished. I may further mention, with relation to this fubject, that I have feen patients who fcarcely ever flept, from the pain of

of the local difeafe, whofe ftomachs were greatly difordered, and who had a diffrefsing purging, which could only be controlled by opium, fleep without interruption during the night: regain their appetite, and have their bowels become tranquil and regular, when, after various trials, a dreffing has at laft been applied, which quieted the irritable ftate of the fore. It is right however to mention, that the effects of fuch an application are not, in general, permanent; but after a time the fore becomes again fretful, and requires fome new dreffing to foothe or controul its irritability.

I have feen fome cafes of fuch difeafed fores as I have deferibed, in confultation with other furgeons, who have become convinced that my opinions are well founded. Others have occurred, even in the perfons of medical men, whofe feelings co-operated to render their conviction more ftrong.

Having thus, by general obfervation, imbibed the opinion that the peculiarities of local

local difease depend chiefly on the flate of the conftitution, I shall relate some cases, which were treated in conformity with the principles which fuch an opinion would naturally fuggeft. I must, however, previously caution the reader against inferring, that I attribute all local difeafes to fome general error in the flate of the health. I have feen local difeafes, which could not be deduced from any general indifposition, nor corrected by remedies which act on the conftitution at large. I wish to guard against the fufpicion of being inclined to make general affertions; while I avow at the fame time, that my observations induce me to believe, that the peculiarities of local difeafe generally depend upon constitutional causes. Reason alfo fuggests the same opinion; for if fores of the fame character break out in fucceffion in different parts of the body, can we doubt but that they arife from the ftate of the health in general?

There appears to me a combination of nervous irritability and weaknefs, and to fuch a combination

tion I am inclined to attribute the peculiarities of these variable and unclassed local difeafes. Perhaps I may explain my meaning further, by adverting to what happens not unfrequently in cafes of venereal and other buboes. The part and the conftitution have been both weakened by the difeafe that has occurred; they have been further debilitated by the mercury employed for its correction. The difease fubfides, but a new difease and action commences; a trivial wound frets out into a phagedænic fore, which is very difficult of cure. The fores, in different cafes, are nearly as various in appearance, as those of which I have been speaking. To what are we to attribute thefe diffimilar, perplexing, peculiar fores, if not to irritation occurring in weak and irritable parts? As the peculiar difeafed actions of thefe fores originate chiefly from the weaknefs and irritability of the parts, induced by the previous diforder which they have undergone; fo in their advanced ftages they frequently prefent the beft inftance, that can perhaps be adduced, of a peculiar local difeate existing

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ing independently of conftitutional diforder. It is true they affect the health in general; but it may, by attention, be kept in a moderately right ftate, and yet the fore remains unamended. The difeafed actions of these fores fometimes gradually, and fometimes fuddenly ceafe; when healthy actions fucceeding, the fore heals. I remember a fore of this defcription, to which almost every variety of dreffing had been tried without benefit. It was very extensive, and had burrowed in various directions beneath the skin. The ulceration at length became stationary; but after nine months the fore fill remained as foul and fretful as it had been for a confiderable time; when in the courfe of one week it perfectly cicatrized, leaving the hollows which I have defcribed; for it had thrown out no granulations to fill thefe chafms.

Having thus ftated the opinions, which I have formed, relative to these kinds of local difeases; and which were deduced from cases too numerous to record, of which I have preferved no accurate accounts; I proceed to relate relate fome cafes treated in conformity to thefe opinions, which will, I truft, be fufficient to exemplify and illustrate the prefent fubject.

CASE.

A gentleman's fervant, between thirty and forty years of age, was fent to me with a bad ulcer in his cheek, fituated between the nofe and under eye-lid. The furrounding parts were inflamed, fwoln, and indurated, fo as to rife fully half an inch above their natural level. The fore was of an oval figure; meafuring about an inch and a half in length, and half an inch in breadth and depth; indeed I could fcarcely fee its bottom. The furface was covered by adhering matter of a greenish hue. The cuticle round the margin was thickened, and had in some parts scaled off. The patient had been rubbing in the mercurial ointment for this complaint. He declared that he had had no chancre for many years, but had contracted a gonorrhœa about a year before his prefent

prefent diforder. His health was much difturbed; he had no appetite; his tongue was much furred and tremulous; his bowels alternately coffive and lax; his fæces blackifh. I advifed him to take five grains of rhubarb about an hour before dinner, and five grains of the pil. hydrarg. every fecond night, with caftor oil or fenna tea occafionally, fo as to procure a motion daily. The fore was dreffed with fperma ceti cerate. I faw him again in three days; when he faid that he felt himfelf under the greatest obligations to me. He had been entirely free from pain and diftrefsful fenfations, fince he began to take the medicines; although he declared, that before that time, he fhould have been thankful to any one who would have deftroyed him. I mention this, becaufe I have often remarked in these cases, the furprifingly great relief and comfort which have arifen from a change, produced by means apparently infignificant and inadequate. The bowels now acted regularly, and the ftools were more copious and of a more natural colour, and to this correction of the biliary fecretions bns

fecretions I am inclined to impute that relief; which he fo forcibly depicted. The fore had difcharged profufely; the furrounding fwelling and inflammation were much leffened. He purfued the fame plan of treatment for a month; during which time he recovered his appetite; his tongue became clean; his bowels regular, and the biliary fecretion natural. The fore had contracted into a fmall compass, but without the appearance of granulations; and the furrounding parts were not fwoln, though ftill red. His health became at this time again much difordered, in confequence of his catching cold, from exposure to rain. He had pain in the bowels, with a flight purging; his appetite failed; his tongue was furred; and he had a fevere cough, attended with copious expectoration. The fore on the cheek alfo enlarged to about one half of its former fize: and the furrounding parts became tumid. I had the patient admitted into St. Bartholomew's Hofpital, where he took the decoction of cafcarilla with fquills. His cough got materially better in a fhort time: the ftate of his ftomach and

and bowels also greatly improved. The fore again diminished in fize. About a fortnight after his admiffion into the hofpital, an eruption came out over his whole body. The fpots were of a copperish hue, but rather fmaller, and more elevated, than venereal eruptions generally are *. Some of the eruptions gradually difappeared; and, in about a fortnight, it was certain that many were entirely gone. About this time he began to complain of his throat; and an ulcer, of the fize of a shilling, formed in each tonfil. The edges of thefe fores were elevated, and uneven, without any appearance of granulations; the furface was covered with yellow adhering matter. The patient now again caught cold: he was attacked with pain in the bowels, and purging, which obliged him to get up frequently in the night, and to remain for fome time out of bed. The cough and expectoration returned : he loft his appetite; and had a furred tongue. Dr. Roberts, whom I met at the hofpital, did me the fa-

* Many perfons who faw this patient did not entertain a doubt but that all the fymptoms arofe from fyphilis; it was their progrefs alone which evinced the contrary.

CABE.

vour to prefcribe for him. In a day or two afterwards, an eryfipelatous inflammation appeared on the right fide of his face, opposite to the fituation of the fore. The eyelids were fo tumid that he could not open them: the eryfipelas fpread to the other fide of the face; and the other eye was equally clofed. The fever alfo ran very high, and the patient became delirious; fo that he was obliged, for many days, to be confined by a ftrait waiftcoat. Thefe fymptoms gradually abated, and he recovered, fo as to be in better health than I had ever feen him. He was difcharged in about fix weeks, in a ftate of convalescence; and attended Dr. Roberts as an out-patient. The eruption and fore throat had entirely difappeared; the original ulcer was firmly healed; and the contiguous fkin had be. come foft and natural, though it was still difcoloured. A year has fince elapfed, and he has had no return of his complaints.

It is, I think, fufficiently evident, in the prefent inftance, that the peculiarities of the local difeases had their origin in the state of the conflitution.

CASE.

CASE.

ment had been applied, cicuta and tonics had

I was confulted, by a medical gentleman in my neighbourhood, on the cafe of a lady about forty years of age; who had been long fubject to dyfpepfia, and fevere head-aches. Her prefent and chief complaint had been of about three months duration. It began with weaknefs, and an apparent irregularity in the motions of the lower extremities, attended with confiderable pains refembling rheumatifm, and rigidity of the calves of the legs. These fymptoms increasing, she was unable, in the course of a month, to move about at all; but was obliged to be lifted in and out of bed. At this time an induration of the muscles of the calf of each leg had taken place. The indurated fubstance was about three inches in length, and between two and three in breadth. It was feverely painful at times, and the integuments covering it were occasionally inflamed. There was also fome pain and fwelling in the ham. Leeches, fedative lotions, and mercurial ointment

again

ment had been applied, cicuta and tonics had been given, but without alleviating the fymptoms. I first faw the patient about fix weeks after fhe had been obliged to keep her bed entirely; and the peculiarities of the prefent cafe led me at once to refer its origin to the state of the health in general. The appetite and digestion were impaired, the tongue was much furred, and the fæces blackifh. I merely recommended fomentations to the indurated parts, confidering it the primary object to correct the morbid state of the digestive organs. With this view the compound infusion of gentian with the infusion of senna and tincture of cardamoms was given, in fuch dofes as to procure an adequate evacuation daily, and five grains of the pil. hydrarg. were taken every fecond night. These fimple medicines were completely fuccefsful: after taking them a fhort time, the difcharges from the bowels were natural, and properly coloured with bile. The appetite returned; the tongue became clean, and the pains almost immediately ceased. No cutaneous inflammation indicating a disposition to suppuration, appeared again

again over the indurated parts, which gradually recovered their natural ftate. In a fortnight the patient could go about with a ftick, and in two months could walk as well as before her complaint. She has enjoyed better health, fince this time, than for many years before *.

CASE.

A gentleman, thirty-two years of age, who had been fubject for feveral years to occafional attacks of fevere pain in the bowels, was feized, about the end of Auguft, with a violent purging, which continued for a fortnight, and was attended with fever. About a month afterwards, he felt pain in his leg at night, which became gradually continued even during the day, and obliged him

* The flate of the indurated muscles, in this case, was such as would lead to the belief that suppuration would take place in different parts of the hardness; indeed, I have seen many cases less formidable in appearance terminate in that manner. Seeing how much the irritability of muscles is disordered by that state of confliction which I have been describing, I think it is allowable to conclude that most of the organic diseases of muscles originate from this cause.

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to confine himfelf to bed. In the beginning of October a fwelling was perceived near the inner ankle, which fuppurated, and was opened on the twentieth of the fame month. Two large tea cups full of dark brown matter were evacuated. The difcharge continued profuse for some time, and afterwards diminished. Four other small gatherings then took place in fucceffion, and burfting continued to difcharge; each aperture fretting out into a foul fore. About the beginning of February I first faw this cafe, which was confidered as a difeafe of the bone. The five fores had apertures in them leading to finufes, which communicated with each other. A probe introduced into one of thefe, near the bottom of the tibia, could be moved upwards and downwards along the furface of the bone, which was not, however, denuded. From an upper ulcer the probe could be paffed behind the bone, and under the mufcles of the calf; this indeed feemed to be the original feat of the abfcefs, from which the finufes proceeded to their different outlets. The integuments were œdematous, and firm to the touch; fo that I could not diftinetly COL

tinctly feel the outline of the tibia; but I thought that the bone was not altered either in form or fize. The firmnefs with which the patient flood upon the limb, and the want of aching pain in the bone contributed alfo to make me believe that it was not difeafed, and that the whole diforder confifted in an unhealthy abfcefs, the difcharge from which had caufed various finufes in the manner already defcribed. I could not but attribute fuch a difeafe to a general diforder of the health, and indeed the patient's countenance and appearance indicated a conflictution much weakened and harraffed by illnefs. His tongue was furred, and the difcharges from the bowels were irregular, deficient in quantity, and of a blackish colour. With a view to the correction of these fymptoms, I directed the patient to take five grains of the pil. hydrarg. every fecond night, and the infusion of gentian with fenna, fo as to procure one motion daily. But little benefit was obtained by thefe meafures; and in about a fortnight afterwards a thickening of the integuments took place over the fibula; a confiderable fwelling gradually arofe, and another abfcefs formed, which

which burft in about three weeks, and difcharged a confiderable quantity of brownifh matter mixed with blood. During this time the limb was merely poulticed, and the patient could not leave his bed. His pain was extreme, and he had no reft at night. The use of opium was necessary to alleviate his fufferings, and opening medicines occafionally to procure stools. He took but little nourifhment, and his health greatly declined. The difordered state of the stomach and bowels was much aggravated by this local irritation. Indeed, the fituation of my patient was now particularly perplexing. The local difeafe made the general health worfe; and the aggravation of this general diforder, which appeared to have been the caufe of the local difease and of its continuance, proportionately increased the latter malady. The confinement to bed afforded an additional obstacle to recovery; yet it was impossible to remove him in his prefent ftate, on account of the pain which motion occafioned. The leg was infupportably painful in a dependent pofture. As change of air and exercife feemed effential to his recovery, I was induced to try if Mr. Baynton's excellent

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excellent bandage, by fupporting the weakened veffels, would prevent their diffention, and the confequent pain. The fores were dreffed, after as much matter had been exprefied from the finufes as could be done without occasioning pain. Strips of flickingplaister were applied after the manner of a many-tailed bandage; and the limb was afterwards rolled with a calico roller. The patient felt comfortable, and found his limb ftrengthened. He was directed to wet the roller, if the parts became heated. The effect of this treatment was furprifing both to the patient and myfelf. The pain, which had been conftant before preffure was employed, ceafed from the time of dreffing till five o'clock on the following morning; but from that time it gradually increased till noon, when the dreffings were renewed. The caufe of this occurrence now became manifeft; for, upon opening the bandage, more than a teacup-full of matter was difcharged from the different finufes. I dreffed the limb as before, cutting holes for the efcape of the matter oppolite to two of the chief finules. I defired the putient to put his leg to the ground, in order

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to afcertain the effect of the perpendicular pofition when the veffels were fupported; and he experienced no inconvenience. This day paffed, as the former, without pain; and, as the matter poured into the finuses readily cscaped, he had no uneafiness from its detention. I recommended him to fit up, and put his leg to the ground feveral times in the day, in order to accustom it to that position. After I had dreffed it on the third morning, the patient flood up, and took two or three fteps very feebly; but this was rather the effect of general weakness than of particular infirmity in the difeafed limb. I now advised him to go a little way out of town in a carriage. The air and exercife, together with the freedom from pain, produced a very beneficial effect. He began to recover his appetite, flept at night, and acquired fo much ftrength, that he was able in a week to go about his houfe, and to refume his attention to bufinefs. The difcharge from the finuses was very trifling, and the fores looked much better. The patient now undertook to drefs his leg himfelf, and hired a lodging out of town, fo that I only faw him occafionally. His limb was fo 03

fo much amended in the course of a fortnight, that it caufed no more trouble than that of daily dreffing. But his health was not good. His countenance had the fame expression of illness as when I first faw him; his tongue was white and dry; his bowels coffive; and the ftools of an unhealthy colour. I therefore recommended him to take again the fame medicines which I had formerly ordered him. His health now improved; his tongue became moifter, and lefs furred; the bowels more regular; and the fæces coloured with a more healthy bile. He continued recovering till the middle of April, when he began to complain of the trouble of applying the flickingplaister, and used the calico roller alone. I did not fee him for three weeks, and then found him in a very defponding state. He complained of the tedioufnefs of his confinement, which had lafted more than half a year, and faid that he would willingly fubmit to have the finuses laid open, if that would make him well. I found his leg well, excepting two orifices near the tibia; three ulcers, which formed the apertures of as many finufes, had healed;

healed; the outline of the bone could be diffinctly felt; and there was no alteration of it in form or fize. I was unable at first to account for this defpondency under fuch favourable circumftances; but I foon difcovered that it was the effect of hypochondriafifm. For his tongue was much furred and dry; and at the fame time that he left off the bandage, he had alfo difcontinued his medicines. I urged him to return to them immediately; and called on him again in ten days, when he perceived clearly the abfurdity of his late defpondency, as well as its caufe. He called on me on the 10th of July, with a new fwelling near the upper part of the tibia, which threatened to form an abfcefs, fimilar to those which had formerly taken place. I covered the limb with the bandage of flicking-plaifter, as at first. The new difease disappeared entirely; and the old ones were fo much benefited by the exact and equal preffure, that the patient felt no difference between the found and the affected limb. The ulcers gradually healed, and his health is better than it has been for some years : yet still there is an evident

of the digestive organs, &c. 155 dent tendency to diforder of the digestive organs.

If upon an extensive and accurate examination of the fubject it were to appear that many very peculiar and very diffimilar local difeafes originate from a common caufe, namely from weaknefs and irritability of the fyftem in general, our enquiry would be further extended, and we fhould feel anxious to know whether fimilar caufes may not operate in the production of more common and more frequent local diforders. As far as my late obfervations have enabled me to determine, that state of the digestive organs, which I confider as denoting conftitutional diforder, exifts prior to the formation of a carbuncle; and is exacerbated during the progrefs of that difeafe. This opinion indeed will appear probable, if we confider the kind of perfons who are attacked with carbuncles, and the confiderable derangement of health, which even a trivial local difeafe of this nature occafions. I fhall mention but one cafe in fupport

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port of this opinion, though I have made fimilar remarks in feveral other inftances.

tede transformer CASE.

I attended a gentleman, who was afflicted with carbuncles, during three fucceflive attacks, at the interval of about a year between each. I made an incifion through the indurated ikin, down to the fubjacent floughy cellular fubftance, and thus brought the local difease to a crifis. This treatment was fufficient in the two first attacks; the extension of the difease was prevented; the floughs feparated, and the wound healed. The patient, whole mode of life was intemperate, had cough; difficult refpiration; fullnefs and tendernefs of the parts fituated in the epigastric region; unhealthy secretion of bile; and in fhort, all those fymptoms which denote a very confiderable degree of diforder of the digeftive organs: it is probable indeed that fome organic difeafe of the chylopoietic vifcera existed. After he had recovered from the

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the carbuncle, I told him that the moft important difeafe ftill exifted; and urged him to be attentive to his diet, and to the directions of his medical attendants. He ftill however continued to live intemperately, and his diforder increafed. He was indeed nearly dying from difeafed vifcera, when he was attacked with carbuncle for the third time. The division of the parts produced a temporary ceffation of the difeafe; but it began again to fpread in every direction from its circumference, and he died.

It will not, I believe, be doubted, that boils are a flighter degree, with fome variation, of the fame difeafe, which caufes anthrax and carbuncle; and it is almost unneceffary to remark, that fome perfons are fubject to a fucceflive formation of very large and troublefome boils from the least irritation of the skin. I have feen many perfons thus affected; and there has been in every instance diforder of the digestive organs, the correction of which has prevented the return of these vexations local difeases. One gentleman, tleman, who had been tormented for many years by the quick fucceflive formation of boils as large as eggs, has been free from them for fome years; though he has had other diforders which denote fuch a condition of the conftitution, as it has been my object to deferibe in this paper.

I have remarked in many inftances that difeases of the absorbent glands, fuch as are ufually and juftly denominated fcrofula, occurring in adults, have apparently originated from the diforder which I have defcribed. In feveral cafes the local difeafe was of long duration, and had become worfe rather than better under various plans of medical treatment; yet it amended regularly, and fometimes even quickly, in proportion as the ftate of the digestive organs was corrected. I need not detail any cafes on this occafion, fince every furgeon must know them familiarly. The patients are commonly fent to the fea-fide, or into the country; where enlarged glands fubfide, and those which have fuppurated and ulcerated heal; and the local difeafe

difeafe recovers, in proportion as the health in general is amended.

There are cafes of fcrofulous difeafes occurring fuddenly, and in various parts of the body at the fame time, which feem to originate in that ftate of health, which is occafioned by diforder of the digeftive organs. I have chiefly obferved thefe cafes in children; and they have followed fome violent febrile affection. In two cafes which I fhall particularly mention, the fmall-pox was the antecedent difeafe. I have already ftated, that when the health has been confiderably difordered by fome violent difeafe, the digeftive organs may become fubfequently affected; and that this diforder proves a caufe of many fecondary difeafes.

CASE.

A child of two years old had the fmallpox, from which he did not feem to recover, but, on the contrary got into a very bad ftate of

of health. The abforbent glands on the right fide of the neck became enlarged in fucceffion, fo as to form altogether a very confiderable tumour, which extended down to the collar bone. The axillary glands then became affected in the fame manner; the fwelling was unufually great, and feemed to extend under the pectoral mufcle, elevating it, and forming by this means a continuation of tumour, with the glands of the neck. Thefe fwellings had partially fuppurated, and had broken in two places, viz. in the neck, and about the margin of the pectoral muscle: but no relief followed; on the contrary, the mais of difease seemed to be rapidly increasing. The child was bowed forwards, fo that the fpine was much curved in the loins; the left leg appeared paralytic; and a fwelling was perceived in the abdomen, which I could not but afcribe to an enlargement of the external iliac glands. The child was extremely emaciated; his fkin felt hot and dry; his tongue was covered with a brown fur; and the ftools were black and highly offenfive. As there was no expectation that he could furvive this desperate 10

defperate flate, those medicines only were prefcribed that feemed likely to correct the flate of the digeflive organs; fuch as occafional dofes of calomel and rhubarb. A ftrict attention to diet was alfo recommended. Under this treatment the ftools gradually became natural, and the tongue clean. The difease feemed to ftop immediately. As the health was reftored, the fwellings rapidly fubfided; and the child became one of the healthieft and ftouteft of the family.

CASE.

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bliffied, and the local differies gradually diff-

A female child, after having had the fmall pox, got into bad health from diforder of the digeftive organs. She was then fuddenly attacked with a fcrofulous affection of the knee and elbow of the opposite fides of the body. Two collections of fluid had taken place beneath the fascia of the leg and thigh. The joints were greatly enlarged, and the fwelling was apparently caused by an increase in the fize of the bones. Had I feen either M joint, joint, as a fingle cafe of difeafe, I fhould have faid that it would leave the child a cripple. It was manifeft, in the prefent inftance, that thefe difeafes were the confequence of illhealth; and that the firft object was to correct the general diforder of the fyftem The functions of the digeftive organs, which were deranged, were reftored to their natural ftate, by employing the fame diet and medicines which had been fo fignally fuccefsful in the preceding cafe. By thefe means the health was re-eftablifhed, and the local difeafes gradually difappeared.

I have heard it remarked by furgeons of great experience, that patients often recover when many fcrofulous difeafes appear at the fame time; although fome of them may be fo confiderable, that they would feem to warrant amputation had they appeared fingly. The cafes which I have related afford a most clear and fatisfactory account of the mode of recovery. General irritation and weakness bring on difeases, to which perhaps a pre-disposition may exist, in feveral parts

parts of the body; these cease when their exciting cause is removed.

After having attempted to fhew that pfeudo-fyphilitic and many other non-defcript difeases arise apparently from the state of the conftitution, and that carbuncle and fcrofula are fometimes confequences of the fame caufe; it may be enquired, whether all thefe various affections originate from a fimilar diforder of the general health. If the fame general diffurbance of the health can produce a great many varieties of local difeafe, it may produce many others, and even every variety *. If the actions of any part of the body are excited by accidental caufes, it may be reafonably inferred that, in a ftate of health, they will be fimple and common, unlefs the ftimulant is of a peculiar nature. But if these actions are specific and difeased, we naturally conclude that the caufe of their becoming

* Even in cancer, diforder of the digeftive organs appears to be antecedent to the local difeafe, and aggravated by its exiftence; but whether this diforder be the effect or caufe of the conftitutional diathefis cannot be at prefent determined.

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fo is conftitutional. The occurrence of fimilar local difeafes in different parts of the body, furnifhes an additional proof that the caufe of fuch difeafes is conftitutional. But although the cafes related in this paper naturally fuggeft an opinion that there is fome conftitutional caufe for the production of local difeafes, they do not amount to a complete proof. Indeed I have never inveftigated this point particularly, though it deferves and admits of examination.

The fubject may be viewed in another way: weaknefs and irritability occurring bring on those local difeases, to which a pre-disposition exists; and thence the connexion which I have observed of such difeases with impaired health may be accounted for. The cases contained in this paper are, in my opinion, infufficient to determine whether the constitutional diforder is to be regarded as the exciting or the pre-disposing cause of the local difease.

I have also observed that difeases of particular organs seem to originate, in many instances,

inftances, from diforder of the fystem in general. The testis of the male subject, and breast of the female, have furnished me with examples of this observation. In the cases to which I allude, the testes were alternately affected, enlarging confiderably, and then substitutions *. I have met with numerous and interesting cases of such diseases of the breast; however, the relation of a few will be sufficient to inform the reader of all that I know concerning this subject.

country, thought it flould be removed. The maintary gland of the opposite fide was far

from being in a p. He A A O by flate; which

circumfrance appeared to furbid an operation,

A lady came to London, to fubmit to the removal of a difeafed breaft, if it fhould be judged neceffary. The difeafe had exifted for more than two years. The breaft of the affected fide was one third larger than the

* The caufe which excites and maintains alternate irritation and difeafe of the teftes, generally refides in the urethra; but there was no difeafe of that part, in the cafes which I now mention. The patients first became unhealthy, and diforder of the testes followed. Similar affections are not uncommon in pseudo-fyphilis.

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other; indurated in feveral parts; and fo much enlarged and hardened in one place, that this might have been taken for a diffinct tumour on a hafty and inattentive examination *. This part was fituated near the margin of the pectoral muscle. The difease had resisted the various means employed with a view to difperfe it, fuch as leeches, lotions, mercurial ointment, &c. It was occasionally painful, and caufed the patient fo much mental anxiety, that the furgeon, who attended her in the country, thought it fhould be removed. The mammary gland of the oppofite fide was far from being in a perfectly healthy ftate; which circumstance appeared to forbid an operation, fince the fame difeafe might take place afterwards in the opposite breast. The patient's general health was much impaired, her tongue was furred, her appetite deficient, her digeftion

* It may not be improper to observe here, for the instruction of the younger part of the profession, that if a breast containing a portion which is particularly indurated be examined with the points of the fingers placed circularly, the disease will feel like a separate tumour; but i the flat surface of the fingers be moved over it, its true nature will become manifest.

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· imperfect; the biliary fecretion was difordered, and the bowels coffive. I ordered her to take a compound calomel pill every other night, five grains of rhubarb half an hour before dinner, and the infusion of gentian with fenna, fo as to procure a fufficient evacuation of the bowels daily. Linen moiftened in water was applied to the part in the evening, or when it felt painful and heated. . This plan of treatment reduced the bulk of the difeafed gland by at least one third in the course of a fortnight. The patient went afterwards into the country, still employing the fame medicines; and was entirely free from the difease in three months, though the felt occasional thooting pains, which probably indicated that her health was not completely re-eftablished,

CASE,

A lady confulted me on account of a confiderable fwelling of the breaft, attended with much pain. It had come on fuddenly, and had been painful about a week; but the thought

thought that a lump had exifted previous to this time. The principal tumour was on the fide next the fternum, and was as large as an hen's egg; it feemed to be diftinct, yet there was a general fwelling, with partial induration of the fubstance of the gland. The tongue was furred, the bowels coftive, and the pulfe frequent; and the was, to use her own expression, very nervous. I directed her to use the fame means as were mentioned in the preceding cafe. Small dofes of mercury act beneficially on the bowels, by inducing regular and healthy fecretions; and I know no better method of administering it as a difcutient. The general induration of the breast and tumefaction of the integuments fubfided quickly under this treatment, and left the lump in the fame ftate which I fuppofed it to have been in before the attack of general fwelling and pain. In another week this apparently diffinct tumour was flattened on its furface, diminished in fize, and confused with the fubstance of the mammary gland. Its form varied each fucceffive week; it first became oblong, and afterwards seemed to feparate into two parts; but in lefs than fix weeks no trace of it could be felt.

CASE.

the patient relided.

About two months afterwards, having oecafee to be in this is a 's the country where

our her. Her

A medical man, who refides in the country, brought his daughter to town for advice, She had apparently a tumour in her left breaft, between the nipple and the axilla; in which part fhe had felt a good deal of pain. The fwelling was of very confiderable fize, and the breaft fo tender, that I could not exactly make out whether it arofe from diftinct tumour, or from a partial enlargement of the mammary gland. Want of time prevented the patient's father from fhewing the cafe to another furgeon. I could only give him this opinion; that in the prefent circumftances no one would think of an operation. I recommended the application of the lotio ammon. acetat. when the part felt heated ; and as the patient had diforder of the ftomach and bowels to a great degree, that the chief attention should be paid to the state of these organs. A grain of calomel was directed to be taken every fecond night; rhubarb before dinner, and infus. gentian. and fenna, if neceffary. Leured by the lame treatment.

About

About two months afterwards, having occafion to be in that part of the country where the patient refided, I called on her. Her father then told me that the fwelling had fubfided confiderably, after his daughter's return in the country; and that of late he had not examined the complaint, as fhe told him fhe felt no uneafinefs from it.

When I now examined the breaft, I could not perceive any difference between it and the other. No veftige was left of a diforder, which had been of fuch a magnitude, as to occafion confiderable alarm; a circumftance that excited the greateft furprize in the mind of her father, who was a practitioner of much experience *.

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Before I had paid attention to those complaints which arise from, or are aggravated by constitutional causes, I could not have believed that such considerable local difeases, after resisting various topical and general

* I have also known cafes of induration and suppuration of the falivary glands, apparently caused by the same general diforder, and cured by the same treatment.

means,

means, fhould give way fo readily and completely to fmall dofes of medicine. It is only by confidering the manner in which this effect is produced, that the fubject can be placed in a proper point of view.

An attention to the flate of the bowels is indifpenfably neceffary, even in the common practice of furgery. A fimple cut of the finger frets into a bad phagedænic fore, which refifts every local remedy fo long, that amputation is at laft propofed. This is the confequence of bad health, which in its turn is aggravated by the irritation of the fore. The patient has a furred tongue, with other fymptoms of difordered digeftive organs. An attention to this diforder corrects the painful flate of the fore, which now heals rapidly under fimple dreffings.

A patient has a diforder in the urethra, almost too trivial for furgical attention; yet producing much inconvenience. The functions of the digestive organs are impaired, and he is hypochondriacal. He confults a physician,

ON DISORDERS

phyfician, under whofe care, his general health is amended, and he no longer feels or thinks of the local difeafe.

effect is produced. that

An eryfipelatous inflammation of the leg is imputed to fome trivial caufe; as for inflance a gnat-bite. It becomes worfe under the common remedies. The health has been long declining, and the chylopoietic vifcera are obvioufly deranged. The eryfipelas is quickly cured by medicines prefcribed for that diforder.

confequence of bad health, which in its

A patient fuppofes that his knee is ftrained; for pain and inflammation of the joint fuddenly come on, with deposition of fluid into the articular cavity; this attack is attended with fever, furred tongue, and unnatural difcharges from the bowels. Leeches, cooling washes, and poultices, in fhort, all topical applications are unavailing. It is a cafe of rheumatic inflammation, for which a phyfician is confulted. Five or fix weeks elapfe without any abatement of the difeafe, the patient being almost unable to ftir in bed. An

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An alteration in the health fuddenly takes place; the tongue becomes clean; and there is no longer any pain in the knee. All the fluid is abforbed from the joint in two days, and the patient walks about his chamber. Or there may actually have been fome local injury; but the confequences are very confiderable and violent, and quite incommenfurate to the caufe. Such occurrences can only be affigned by imputing the effects to the flate of the health in general. I could relate a great number of cafes to illuftrate this fubject, but it does not feem to me to need any further exemplification *.

I again repeat at the conclusion of this fection, that though I admit the poffibility of the existence of difeases strictly local, and have adduced fome instances of them, I consider the difeases, which I have been describing, to arise from diforder of the health in general, which is

treation; but it does in

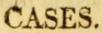
* As operations are injuries, fo we ought not to perform them when the conflictution is in this flate. I could relate feveral inflances of the wounds made in operations, affuming difeafed actions from fuch a flate of the conflictution.

often caufed, though fometimes merely aggravated, by diforders of the digeftive organs; and it follows, if this view of the fubject be correct, that fuch difeafes may fometimes exist, without any manifest disorder of the digeftive organs. The diforders of these vifcera may act in a two-fold manner on the conftitution; they may be the caufe of an impure or imperfect flate of the blood, and they may caufe or aggravate nervous irritability. Whether in confequence of fuch effects they are to be regarded as the predifpofing, as well as the exciting caufes of fuch difeafes as I have defcribed, is an enquiry very worthy of inveftigation; but it does not appear to me to be determinable by the facts which have been recited.

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CASES.

SECTION V.

Diforders of parts which have a continuity of furface with the alimentary canal.

I had formerly obferved fpafmodic ftrictures of the œfophagus to difappear under various modes of treatment, in a manner which I did not understand. Mercury feemed to effect the cure in three inftances. Many cafes have occurred to me lately, in which the irritation in the cefophagus feemed to be first excited and afterwards maintained by diforder of the digettive organs. It will be readily allowed, that fpafmodic strictures of the œsophagus, when long continued, may cause a thickening in the affected part of the tube, and thus the ftricture may become permanent. One inftance will be fufficient to illufregion trate

trate and verify this view of the fubject; indeed I merely with to excite attention to this fubject, for I am incompetent to give an opinion as to the frequency or degree, in which affections of the fromach produce thefe diforders.

CASE.

A lady, who had been in bad health for many years, and was fuppofed by her medical attendants to have a stricture of the cefophagus, became at laft incapable of fwallowing any food, except in very fmall quantities; the was even then obliged to drink fome fluid after each morfel, to facilitate its defcent into the ftomach. Some mucus and blood role into the mouth after vomiting, which very generally followed the taking of food. Under these circumstances, I was requested to pass a bougie, in order to afcertain the state of the cefophagus; but I declined this examination, on account of the diforder which exified in the formach. The tongue was greatly furred; the parts in the epigastric region state

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region very tender: the bowels much difor-s dered; the fecretion of bile either very unnatural, or entirely wanting; every fymptom, in fhort, which indicates an aggravated form of diforder of the digeftive organs, exifted in a ftriking degree. The ftomach and bowels were brought into a better ftate by fuch medical attentions as I have already fo often defcribed; and the cefophagus partook of this amendment: for moderately fized morfels of food could now be fwallowed without the neceflity of washing them down by liquids. The general health alfo improved, and the became fat. But the diforder of the digeftive organs, which had been of long continuance, was not completely fubdued; fhe was still subject to relapses, and in fome of these the difficulty of deglutition again occurred.

The throat and mouth are the parts next in order; but it is unneceffary to relate additional cafes under this head: fome of the inftances already recorded will be fufficient to confirm my fentiments on this fubject, N and

and the propriety of the practice which I have recommended.

That difeases of the nose may be caused or aggravated by irritation arifing from the ftomach is a proposition, which will, I think be readily granted. Indeed it feems furprifing that the operation of this caufe has been fo little adverted to in books of furgery; fince the phænomena which prove the fact are fo well known. Are the monitrous nofes, caufed by exceffive drinking of vinous and fpirituous liquors, to be otherwife accounted for, than by irritation arifing from the ftomach? And do not worms in children caufe a teazing fenfation in the extremity of the nofe? I had feen in private practice, feveral cafes of irritation and fwelling of the end of the nofe, in fome inftances accompanied with fmall ulcerations of the pituitary membrane. In these cafes, the fkin over the nofe, which was tumid, became rough and discoloured : the middle of the difcoloured part became found ; whilft the circumference retaining its morbid actions, the difease there spread in a small degree. In these cafes

cafes the tongue was furred; and there were eviident indications of diforder in the flomach and bowels. The difeafe was checked, and cured, by attention to this diforder. I was flrongly imprefied with the opinion, that if thefe cafes had been neglected, they would have terminated in that herpetic ulceration, which fo often affects the end of the nofe. I have alfo feen feveral inflances of that herpetic ulceration in its confirmed flate more materially benefited by medical attention to correct the diforder of the digeftive organs than by any local application: and I feel confident that it may be frequently cured by fuch endeavours.

I have obferved, in all the cafes of that noifome and intractable difeafe, ozæna, which have come under my care lately, that the ftomach and bowels have been difordered; and more benefit has been obtained by endeavouring to bring thefe organs into a healthy ftate, than by all the local applications which had been previoufly tried. I ftated to a medical friend my opinions refpecting one patient N 2 who

who came from the country, and begged to know the effect of the treatment which I had proposed. He informed me, after some months, that he had not been able to fucceed in correcting the vifceral diforder; and after relating the means which had been ufed, he adds, "The patient was now attacked with a bilious diforder, to which the had formerly been fubject, and for which I gave her fix grains of calomel in a bolus, which foon relieved her. During this attack the nofe feemed well; there was no fetor in the difcharge, and fhe recovered her fense of fmelling." However the difeafe returned afterwards as before.

In farther confirmation of the opinion, that difeafes of the nofe depend much upon the ftate of the ftomach, I shall mention the cafe of a woman, who had a difeafe of the nofe, which I expected would, at least, prove very tedious and very troublefome, but which got well fpeedily under fimple dreffings, in confequence, as appeared, from the effect of internal medicines. one unifossier encluige ym base

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This patient was between thirty and forty years of age; had a furred tongue, bowels alternately coffive and lax, and their difcharges difcoloured. An enlargement of the left ala nafi, caufed by a great thickening of the parts covering and lining the cartilage, had gradually taken place. The skin was discoloured, and an ulcer, about the fize of a fixpence, had formed on the under furface of the ala. The fore was deep, with a floughing furface, and uneven and fpreading edges. Spermaceti cerate was employed as a dreffing; and the external skin was frequently bathed with Goulard's wash. She was ordered to take internally five grains of rhubarb an hour before dinner, five grains of the pil. hydrarg. every fecond night, and the infusion of gentian with fenna occafionally. The fore ceafed to fpread, the fwelling gradually fubfided, and all difeafed appearances were removed in the course of a month. The patient also found her health confiderably amended.

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In moft cafes of deafnefs, there is probably a ftate of irritation, and a tendency to inflammation, throughout the paffages of the ear. The external meatus is unufually fenfible, the fecretions being either fuppreffed, or difcharged in an unnatural quantity. The lining of the euftachian trumpet is thickened; and hence it becomes partially obftructed. It muft be admitted that fuch a ftate of the organ is likely to be aggravated by a caufe, which maintains or produces irritation in the nofe. When dullnefs of hearing alfo depends on a torpid ftate of the nerves, it may be caufed by the fame circumftance, which is known to affect the fenfibility of other nerves.

Indeed, I have remarked that the hearing of many perfons has confiderably varied with the ftate of their health in general; fo that I felt no furprife from the occurrence related in the following cafe.

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A gentleman applied to me on account of fome pfeudofyphilitic fymptoms, which I told him would gradually become well. I advifed him,

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him, at the fame time, to be particularly attentive to the flate of his digeflive organs, which were generally difordered by the effects of the poifon. He took five grains of the pil. hydrarg. every fecond or third night. The diforders for which he had confulted me were all removed in the courfe of two months; when I received a letter from him, faying, that he thought it a duty he owed to me and to the public to inform me, that the lenient courfe of mercury, which I had recommended, had cured him of a confiderable degree of habitual deafnefs.

It is well known that ophthalmy frequently arifes from conftitutional caufes; and in fuch cafes the digeftive organs are generally deranged. The health will be most speedily reftored, and the local difease most effectually diminission of the local difease most effectually diminission of the abdominal viscera. There is no necessive of the abdominal viscera. There is no necessive of the abdominal viscera of the speedily of the respecting the speedily of the speedily of the speedily respective of the speedily of the speedily of the speedily of the speedily to generally to generally the speedily of the speedily of the respective of the speedily of the speedily of the speedily to generally to generally

generally been afcribed to a retropulfion of that diforder, or to the accidental application of the difcharge to the furface of the eye. In the worft of the cafes which I have feen lately there was confiderable rednefs and irritability of the eye, lafting nearly a fortnight. The digeftive organs were deranged in all the cafes to which I allude; and I attribute the comparative well-doing of these patients to the attention which was paid to their correction, and to tonic and ftimulating applications, as a folution of zincum vitriolatum to the furface of the globe, and unguentum hydrargyri nitrati to the eyelids. In other cafes, which I had formerly been witnels to, where evacuations by bleeding and purging, &c. were employed, the diforder was extremely obstinate; nay feveral patients lost their fight. reftored, and the local difa

That cutaneous difeafes * are much connected with the ftate of the ftomach, is generally

* It may perhaps be right to advert to the direct and fudden fympathy which exifts between the fkin and the ftomach. In affections of the latter organ, the fkin is dry and cold, moift and cold,

rally known. Hence various medicines have been recommended to correct diforders of that vifcus, with the view of removing the more evident, but confequent difeafe of the fkin. The account, which I have given of diforders of the digeftive organs, may lead to a more rational and lefs empirical treatment, and to the more juft appreciation of the value and mode of action of remedies, which are fanctioned by experience. It is almost fuperfluous to relate any cafe to authenticate fo well known a fact; the following, however, may be found interesting and inftructive.

A patient in St. Bartholomew's hofpital had an herpetic difease of the skin, This had

cold, hot and dry, or moift and dry; and it fuddenly changes from the one to the other condition, as the flate of the flomach varies. When the digeflive organs are difordered, the irritable flate of the fkin is manifefted by the effects of bliflers and other irritating applications. A blifter produces a tormenting local difeafe, and even a Burgundy pitch plafter caufes extensive erythema. Indeed, when the conflictution is irritable, all the modes of counter-irritation, which furgeons employ under other circumflances with fuccefs for the cure of local difeafes, are likely to do harm; and thus thefe curative methods obtain difcredit in confequence of their ill-timed employment.

healed

healed in the middle, and fpread in the circumference to fuch a degree, that it occupied nearly the whole length of the leg, and included two thirds of its circumference. The skin had recovered a moderately found state in the centre. The difeafe was propagated in the circumference by an ulceration, which threw out a projecting and firm fungus of a tawny colour, of about half an inch in breadth. A fmall groove or channel feparated this fungus from the furrounding inflamed fkin, which had not yet ulcerated. A fimilar difease occupied the back part of the arm; this was of an oval figure, and refembled, in every circumftance, that which I have already defcribed upon the leg. These difeases had exifted for nearly two years, and continued to fpread in opposition to every mode of treatment. Mercury had been employed, even to falivation, without any marked alleviation of the local complaint. I immediately perceived that the digeftive organs were greatly deranged: upon correcting this diforder, the fkin furrounding the difease became pale; and all difposition to spread ceased. The fungus, however,

however, ftill projected, and did not heal; it was therefore dreffed with a weak folution of kali arfenicatum. This remedy feemed to fubvert the difeafed actions, which had produced the fungus; fo that, in lefs than two months, the patient was difcharged from the hofpital perfectly well,

I have feen fimilar herpetic difeafes, of much lefs extent, fucceed to the abforption of matter from fores upon the genitals. Thefe have got well when the patient has gone into the country, and appeared again when he has returned to town. They have healed under a courfe of mercury, and broken out again when it was difcontinued.

In this review of diforders, occurring in parts having a continuity of furface with the digeftive organs, I have traced them from the ftomach. Another fet of difeafes may originate from the fame fource. The large inteftines fuffer more in advanced ftages of thefe diforders than the fmaller ones; hence diforders of the rectum, and particularly many irritable

ON DISORDERS, &C.

irritable difeafes about the orifice of that bowel, are deducible from this caufe. I fhall not, however, prolong the account by the relation of cafes; but content myfelf with affuring the reader, that the opinion has been derived from facts, and not from preconceived notions of the operation of fuch diforders.

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SECTION VI.

IN this Section I thall mention what information I have obtained by diffection, relative to the caufation of other difeates by thofe of the digeftive organs. The reciprocal fympathy, which exifts between the brain and the digeftive organs, is generally admitted; but the kind and the degree of the effects arifing from this fympathy, is not, perhaps, in general, fufficiently underftood. Thefe organs mutually increate each other's diforder; till the affection of the fenforium leads to the greateft difturbance of the nervous functions, and even of thofe of the mind.

All this may happen without any visible difease of the brain. Dr. Kirkland particularly directed the attention of medical men to nervous apoplexy; and the observations, which have been made fince that time, have proved, that not only a general derangement of the functions functions of the nervous fystem producing apoplexy, but also partial effects of a fimilar nature caufing hemiplegia and paralyfis, may take place, without any visible change of ftructure in the brain. I have met with numerous inftances of this kind; but could not determine whether the affections were merely nervous, or whether they were produced, or aggravated by diforder of the digeftive organs. I only know, that the patients died affected by apoplexy, hemiplegia, or more local paralyfis, without any derangement in the evident ftructure of the brain. I may also mention, that I formerly examined the brains of three perfons who died in a comatofe ftate, in confequence of the metastafis of rheumatifm. In these cases no morbid appearance was obferved in the brain, except fome flight marks of inflammation of the pia mater. It therefore appears clearly to me, that diforder and abolition of the nervous functions may take place, without any organic affection of the brain. The perfect recovery of patients, which fometimes happens, after fuch diforders, may also be confidered as additional evidence

evidence of there having been, in fuch inftances, no organic difeafe of the brain.

There can be no doubt but that epilepfy may, in like manner, take place without any morbid alteration of the ftructure of the brain. or its membranes. Some of the perfons whofe heads were examined, without the difcovery of any difease of those parts, had been subject to attacks like those of epilepfy. Dr. Henry Frafer has, of late, published a decifive instance in proof of this fact. A patient died of epilepfy, and his brain was examined with particular attention, by Mr. Cooper, without any morbid alteration of ftructure being difcovered *. In general, however, morbid appearances are evident in the brains of those perfons who die of epilepfy. Tubercles are most frequently met with. There is, however, a diforder of ftructure which I with briefly to mention, as I do not find that it has been noticed. In two perfons, who died of epilepfy, I found the medullary fubstance of each hemisphere altered from its natural

* See Frafer on Epilepfy, page 39.

structure;

ftructure; it had loft its natural firmnefs, and fmoothnefs of furface, and appeared like thick curdled cream.

Now, if diforder of the digeftive organs is capable of caufing or aggravating nervous diforder, even to the production of thofe effects which have been mentioned, when there is no alteration of ftructure; it muft be granted that fuch a ftate of irritation of the fenforium may lay the foundation of an excitement of the vafcular ftructure of the brain, and thus very frequently produce organic difeafe. When this has occurred, it will aggravate and eftablifh the nervous affection, and thus perhaps render it infufceptible of cure.

Such are the general obfervations which I have made, by means of anatomical enquiry, relative to thefe fubjects. With refpect more efpecially to the inveftigation of my prefent object, I have examined the bodies of fix patients, in whom difeafe most certainly began in the abdominal viscera, and was continued

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tinued in them to the conclusion of their lives. Nevertheles the patients seemed to die rather of nervous diforder, than of disease of the parts first affected. One of the patients died affected with apoplectic symptoms, and five with hemiplegia.

In all these cases the liver was greatly difeafed, and the bowels also exhibited difeafed appearances. In three of the cafes there was confiderable inflammation of the membranes of the brain; and a good deal of water in the ventricles. In two of them no morbid appearance of the brain was difcovered. I have alfo examined a child, who was fuppofed to have died of the hydrocephalus, accompanied by great diforder of the ftomach and bowels. In this cafe the bowels were inflamed, the liver found, and the brain perfectly healthy in appearance; yet there had been fo great a diminution of fenfation and motion, as to leave no doubt of the existence of hydrocephalus. I am aware, that great opportunities of obfervation, accurate attention to the history of difeases, and anatomical examination 0

nation of fatal cafes, are requifite to enable us to form just notions relative to the prefent fubject. I thought, however, that it might not be improper to state what had been the refult of my own enquiries by diffection, in order to promote a more general attention to the fubject.

When my attention was first directed to the fubject of the fympathetic affections of other organs, which were caufed by the diforders of those concerned in digestion, my primary object was to endeavour to afcertain, by diffection, how far pulmonary difeafes originated from fuch a fource. I have, in the courfe of my enquiries, had feveral opportunities of examining the bodies of patients who apparently died of phthifis, combined with difeafes of the digeftive organs. In thefe cafes both the hiftory and diffection tended to prove, that the chylopoietic vifcera were the feat of the greateft and most established difease, and that the pulmonary affection was a fecondary diforder. The liver was greatly difeafed, and the lungs were also befet with tubercles; yet a confiderable

fiderable portion of those organs was found. But diffections can never conclusively afcertain the truth of the opinions which I have stated; for the fame disposition to difease exifting in the conftitution may equally affect both the pulmonary and digeftive organs. Nay, observations made in diffection in general, would tend to difprove the opinions alluded to; for difeafes of the lungs are very commonly met with in dead bodies, while those of the liver and bowels are much lefs frequent. Yet confiderable diforder of the digeftive organs does exift, and may continue for many years, without any organic difease being apparent: it is poffible, therefore, that fuch diforder may excite difease of the lungs, and thus produce a worfe difeafe in the latter organs, than what exifted in the former. In fhort, the opinions which I have mentioned, cannot be either afcertained or refuted by anatomical refearches alone,

Accurate attention to the flate of the digeftive organs may determine this important fubject, and lead to the prevention and cure of 0 2 the

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the fympathetic difeafes which I have mentioned. The attention alluded to, is not of that general kind which adverts only to the quantity of the ingefta, and the periodical expulfion of the egefta, but one that more ftrictly obferves whether the vifcera are free from irritation, and whether their fecretions are healthy or otherwife. My opportunities of acquiring practical information on this fubject must neceffarily have been very limited; yet I have feen many cafes which, to me, appeared to prove, that pulmonary irritation fometimes proceeds from diforder of the digeftive organs. In fuch cafes of furgical difeafes, accompanied by diforder of the digeftive organs, as have been related, I have occafionally obferved a cough attended with expectoration to cease, upon the correction of the diforder of the digeftive organs.

A cafe, which happened about five years ago, ftrongly impreffed thefe opinions on my mind. A fervant of mine told me, that his wife was dying of a confumption, which had been rapidly increasing for fix months, and had

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had baffled all attempts to relieve it. Thinking that I could procure her fome medical afliftance from the hospital, I went to see her. The cafe, however, feemed paft hope. She was extremely emaciated; her pulfe beat 140 in a minute; her face was flushed; she had a most distressing cough ; and spit up more than a pint of mucus, mixed with pus and ftreaked with blood, in twenty-four hours. The circumstance, however, which most disturbed her was a continual purging of black and offenfive matter. She told me that the diforder of the bowels was the first diforder; that it had preceded the pulmonary affection, and, indeed, that it was an habitual complaint. I thought it unneceffary to trouble my medical friends in fo hopelefs a cafe; and ordered fome pills, containing one grain of opium, to be taken in fuch quantity as was neceffary to ftop the purging. As fhe informed me that the diforder began in the bowels, I added to each pill half a grain of calomel. By thefe means the purging was fo much checked, that fhe did not find it neceffary to take more than two pills in twenty-four hours; and when the had had taken twelve, the mercury, very unexpectedly, affected the mouth. From that period, the ftools became of a natural colour and confiftence; the cough and expectoration ceafed; and fhe was foon fufficiently recovered to go into the country; from whence fhe returned apparently in good health.

Now if it were to be afcertained, that pulmonary irritation, which might of course produce pulmonary difease, sometimes arises from diforder of the digeftive organs; it would be right to enquire farther, whether it produces fuch effects, by the nervous diforder it occafions, and by its operation on the health in general; or by means of a more immediate fympathy exifting between the pulmonary and digeftive organs. I do not mean to infinuate, by what has been faid, that pulmonary difeafes do not arife originally and idiopathically; but only to fuggeft that they may arife fympathetically, or in confequence of diforder of the digeftive organs. The proportionate number of cafes, in which they originate in this manner, can only be determined, Dall by

by very extensive experience. That the ftomach and bowels are difordered, during the progress of phthis, will, I conclude, be readily admitted; and that an attention to correct fuch diforder is requisite, must be acknowledged, from what has been faid relative to the influence of fuch treatment upon various local difeases.

The actions of the heart feem to me alfo to become difordered from fympathy with the ftomach. That palpitations, and feeble or intermitting actions of that organ arife from this caufe, is proved by their ceafing, when the ftate of the ftomach becomes changed. The palpitations which take place after eating, in cafes where the heart is irritable, farther evince the fympathy which exifts between thefe organs. Surgeons are occafionally confulted on palpitations of the heart, which the patients mistake for aneurisms: I have feen many inftances, where the great degree of palpitation led to a belief, that fome organic affection exifted. This has ceafed on an amendment of the general health, apparently arifing from TOTASI

from an amelioration of the ftate of the digeftive organs, and the patients have continued in perfect health. I have not collected any accurate narratives of the cafes that I have feen: none at least which I could properly prefent to the public as a proof of the fact. There is nothing, however, of which I am more perfectly convinced; for I have felt it to be true in my own perfon. After confiderable and unufual fatigue, I was feized with pain, and a fenfation of coldness in the region of the ftomach. I had no appetite, and the biliary fecretion was fuppreffed. Whilft this diforder continued, which was for many weeks, my pulfe intermitted very frequently, and I was diffreffed with hypochondriacal fenfations. Upon an alteration in the ftate of the digeftive organs, and a renewal of the biliary fecretions, which happened very fuddenly after taking five grains of the pil. hydrarg. my pulfe became perfectly regular, and my mind tranquil.

The observations, which I have made in furgical cases, lead me also to attribute many hæmor-

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rhages, and particularly those from the nose, to a sympathetic affection of the heart and arteries, excited by disorder of the digestive organs.

If fuch a fate of the fyftem in general, as I have defcribed, and which is manifefted by circumstances denoting the digestive organs to be in an unhealthy fate, and the nervous fystem to be likewife difordered, may, in fome inftances, cause various local difeases of parts not effential to life, the care of which, cuftom has configned to the furgeon; and may, in other inftances, produce diforders of organs effential to our existence, the care of which is allotted to the phyfician; the fubject must be allowed to be of the highest importance. Of late, indeed, I have been inclined to confider thefe circumftances as the caufe of the complicated difeafes which are met with in man, fo much more frequently than in animals. In man the brain is more fenfitive, and liable to be difordered by mental affections. In man the digeftive organs are liable to be difordered by stimulating and unnatural diet. Sedentary

Sedentary habits and impure air co-operate to aggravate thefe diforders. The diforders of the brain and digeftive organs mutually increase each other; and thus a state of conflitution arifes, which is productive of the most general and complex difeases. But even thefe do not feem to me to be the most calamitous terminations of fuch caufes. The diforder of the fenforium, excited and aggravated by the means which have been defcribed, frequently affects the mind. The operations of the intellect become enfeebled, perplexed, and perverted; the temper and difpofition irritable, unbenevolent, and defponding; the moral character and conduct appears even liable to be affected by these circumstances. The individual in this cafe is not the only fufferer, but the evil extends to his connections and to fociety. The subject, therefore, appears to me of fuch importance, that no apology need be offered for this imperfect attempt to place it under general contemplation *.

* The ancients, who formed their judgment of the nature of diforders by obferving the excretions, denominated an irritable I feel

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I feel myfelf under great obligations to Mr. Boodle, from whom, as I have mentioned in the preface, I first derived those opinions which are recorded in the foregoing pages. By this view of the fubject, which he first inftructed me to take, I think I can perceive many circumftances relating to the caufes and effects of difeafes, which before would either have been very obfcure, or not all diftinguifhable. Mr. Boodle first instructed me how to detect diforders of the digeftive organs, when their local fymptoms were fo trivial as to be unnoticed even by the patient; and pointed out to me what were the curative indications in these diforders. Many of the cases, which I have related, fhew how much faulty actions of the liver contribute to caufe or aggravate the general diforder. The relief, which frequently arifes from the renewal or correc-

and defponding flate of mind, Hypochondriafis; and when a more fixed and irrational dejection took place, they deemed it an atrabiliary diforder, and called it Melancholia. There can be no doubt of the correctness of their observations; for if the diforder began in the nervous system, it would generally produce and become aggravated by that diforder of the digestive organs, from which they denominated it.

tion of the biliary fecretion, in these cases, was the circumftance which at first made the greatest impression on his mind. I believe, however, that his opinions of the nature of the diforder of the digeftive organs, and its operation in the production of other difeafes, have been, and are, very fimilar to those which I have delivered. Indeed, as we have lived in the most unreferved communication of our fentiments, it is not probable, that our opinions are materially different. I have been very folicitous that Mr. Boodle fhould publifh his own account of this fubject, and the facts which he has collected: but as his time is fully occupied in the practice of his profession, it is probable, that many years might elapfe before he could do fo, in a manner fatisfactory to himfelf. I hope and expect, however, that he will undertake this task. The medical treatment of difeases, is the most important part of our knowledge relating to them. The plan, which I have fuggested, may be applicable to fuch diforders of the digeftive organs as require the attention of a furgeon, whose chief object is the cure of local difease; but it appears ron

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pears to me very inadequate to the cure of those more complicated forms of difease, which come under the care of the physician. To this subject Mr. Boodle has, I know, paid great attention; and a narrative of cases must be valuable, when given by a person who remarks the progress of difease, and the effects of medicine, with fagacity and accuracy.

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On Difeases of the Urethra; particularly of that part, which is surrounded by the prostate Gland.

EVERY furgeon will, I believe, acknowledge that an obfcurity hangs over the fubject of strictures of the urethra, which prevents us from perceiving the caufe of many circumftances, which occur in daily practice. Contractions of this canal are fometimes readily enlarged to their natural diameter by the introduction of common bougies, and the cure thus effected is permanent. In other cafes it is difficult to procure even a temporary enlargement of the contracted part; and the fricture returns, when the means by which it, was relieved are difcontinued. This variety in the event of different cafes may, in fome instances, depend on the kind and duration of the

DISEASES OF THE URETHRA, &C. 207

the difeafe in the ftrictures themfelves; yet, in many others, I am convinced that it is owing to other circumftances, which it is my defign to confider in the prefent paper. Before my obfervation had been directed to thefe circumftances, I was much puzzled to account for the difcordance in the refult of cafes apparently fimilar. I was equally unable to underftand fome occurrences, like thofe which are reprefented in the following cafe.

CASE,

A gentleman, whofe life was made uncomfortable by a very frequent and very urgent propenfity to void his urine, applied to me for advice. Two ftrictures were difcovered in the further part of the urethra, which did not oppofe the paffage of a bougie as large as a goofequill. Some difficulty was experienced when the bougie entered that part of the urethra, which paffes through the proftate gland; and the patient complained of pain, which was confiderably increafed at the orifice orifice of the bladder. The inftrument, how ever, entered the bladder, though with difficulty; and it feemed to be grafped by the fphincter. The proftate was enlarged to twice its natural fize; which circumstance feemed to me to explain the caufe of the flight impediment, which occurred to the paffage of the inftrument through it. The urethra was unufually long in this patient; and though bougies had been frequently introduced, I fuspect that they had never been passed into the bladder. The patient was of this opinion, from the peculiar fenfations which he experienced, and which he had never felt before. He called upon me four days afterwards, faid that he was much relieved, and requested to have the operation repeated. The fame bougie which had been used before now passed with much greater facility. The patient still felt peculiar fenfations, though much diminished in degree, as the inftrument went through the proftate. It entered the bladder without difficulty, and without appearing to be grafped. I now introduced a larger bougie, which went through the ftrictures with lefs difficulty than the OTTRO

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the fmaller one had done on its first introduction. This produced the fame uneafy fenfation on entering the proftate; it was retarded for a moment at the orifice of the bladder, and was flightly grafped at its entrance. All the fymptoms were still more relieved by this fecond introduction. The fame operation was repeated a few times; at first every fourth day, and afterwards once a week, till a bougie of the largest fize could be passed without occasioning any uneafinefs. The patient, during the latter part of the time, did not require to void his urine more frequently than is common. He was relieved from a great trouble; and, though many years have elapfed, he has not experienced fimilar in-

Such cafes as the preceding induced me to fufpect that a ftricture might exift in the orifice of the bladder. The following cafe gave me new and, as I think, just ideas relative to this fubject. Whether the opinions be correct or not, the cafes, it must be admitted, deferve attention.

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A gentleman, more than feventy years of age, had experienced for about fix years a difficulty in voiding his urine, which gradually increafed, till the ftream became very fmall. This was attended with a frequent propenfity to difcharge the urine, which difturbed him every fecond or third hour during the night. At last a complete retention took place when he was in the country; and a furgeon attempted to introduce a fmall catheter, which however was prevented, by a ftricture, from paffing farther than fix inches. The patient immediately came to London, when I directed him to take fome caftor oil, and to bathe the perinæum and adjacent parts frequently with warm water. After fome time the urine flowed again, and he was relieved from the prefent urgent fymptoms. In two days I examined the urethra, and found a ftricture at fix inches, through which I could not pafs even a very finall bougie. I touched this with the argentum nitratum; but the application

cation did not produce any alteration in the circumstances of the disease. On the third day the bougie passed on to a stricture at feven inches, which was alfo touched with cauffic; and the fame treatment was repeated with another stricture, at the distance of half an inch from this. The bougie now paffed through all the firstures, and entered the proftate, when I was obliged to withdraw it immediately, from a fudden attack of pain and faintnefs. No enlargement of the proftate was difcovered by an examination per anum; nor was it tender when compressed. I told the patient that I confidered it very defirable to introduce a tubular inftrument into the bladder, but that the minuteness of the stream of urine rendered it doubtful whether this could be accomplished. I requested him to call in another furgeon, that the attempt might be made by us conjointly. A flexible varnished catheter, containing a ftrong wire, was readily paffed into the proftate, but could not be made to enter the bladder. The attempt was not long perfevered in, from an apprehenfion of doing injury, if the instrument

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were not guided in the right track. No blood flowed upon withdrawing the catheter. A flight retention of urine followed this attempt; but, after a few days, the patient was in the fame ftate as before. On examining the urethra four days afterwards, I found that the fmalleft bougie would not pafs farther than fix inches; fo that the contraction of the first fricture had been re-excited by the irritation. occasioned by our late attempt. As the application of the argentum nitratum had fo fuddenly and completely relieved this firicture in the first instance, I now repeated this application, although I knew that the fricture was merely fpafmodic. In the course of a few days a fmall bougie was introduced into the proftate, and afterwards a larger one. I now wished to ascertain whether I could pass the bougie into the bladder, or learn, by means of that instrument, the cause of the obstruction. As the patient found that he could void his prine most easily when lying on the left fide, it feemed probable that the orifice of the urethra might be found in that direction. I therefore depressed the point of the instrument,

and

and carried the other extremity towards the right groin, when most unexpectedly it went forwards into the bladder. When the bougie was withdrawn, a confiderable quantity of clotted blood and mucus, with fome matter, oozed out of the urethra; and the patient afterwards voided in a large ftream about eight ounces of turbid and foetid urine mixed with mucus; after which he felt as if his bladder were completely emptied. From this time he had no occasion to void his urine more frequently than is natural, and he expelled it in as large a ftream, and with as much facility, as he had ever done at any period of his life. The bougie was for fome time introduced every third day, and afterwards once a week. It paffed eafily not only through the urethra, but into the bladder, when guided in the direction which has been mentioned. At first the point was foiled with blood and matter, but afterwards thefe appearances were no longer obfervable, which -led me to conclude that the circumference of the ulcerated orifice of the bladder had completely healed. Two years afterwards this gentleman TH1

gentleman experienced a recurrence of his former complaints; a finall bougie only could now be introduced into the bladder. A larger bougie was paffed through the urethra on the next attempt; but it was not carried forwards into the bladder, from an apprehension of irritating the prostate. After a few days the larger bougie was introduced into the bladder, and met with a little refistance at its orifice. From this time it passed with the fame facility as when I difcontinued my former attendance, and the patient found himfelf equally well. Two years have now elapsed without any necessity for repeating these operations.

In this cafe a difeafe took place in the proftate gland, without producing any evident enlargement or tendernefs of its fubftance, though it proceeded to a ftate of ulceration. The difeafe feems to have operated on the continuous parts in two directions; backwards upon the bladder, rendering that organ irritable; and forwards upon the urethra, caufing ftrictures, which were in in fome degree organic, but chiefly of a fpafmodic nature. It muft be allowed, however, that the obftruction of the aperture into the bladder by the difcharges from the ulcerated furface contributed in a great degree to maintain the irritability of the organ, by impeding the difcharge of the urine. This difeafe was alfo of a nature that admitted of relief, and the paffage of a bougie feemed to effect its cure. It had, however, a tendency to recur, and the ufe of the bougie leffened the irritability of the part, and arrefted the progrefs of the difeafe.

The circumftances of this cafe do not indeed unfold the caufe and precife nature of the diforder, which, however, will in my opinion be elucidated by those which follow. They induced me to suppose that those instances, which I had formerly met with, and which appeared so unintelligible, were of a similar nature; and they made me particularly attentive to the state of the urethra, where it passes through the prostate gland, as I saw the possibility of this canal being difeased,

ON DISEASES

difeafed, without the proftate being materially implicated in the diforder. The following cafe occurred foon afterwards.

tain the irritability. **3** '**2** '**A O** can, by impeding the difchairse of the urine. This difeate was

furface contributed in a great. degree to main-

A gentleman, between fifty and fixty years of age, had for twenty years been fubject to occafional fits of dyfury. I was defired to fee him in one of thefe, which had been very fevere and long continued. He was obliged to void the urine at least every hour. The calls were fudden and urgent, and the pain continued for a confiderable time after the urine had been difcharged. He had fome fever, which fuch irritation would naturally produce. A moderate-fized bougie ftopped at two ftrictures, but paffed through them without much difficulty: when it entered the proftate, the patient complained of burning pain; of a ftrong irritation to make water; and grew fo faint that I had, merely time, by a gentle prefiure, to afcertain that the bougie would pafs into the bladder: when diffed, I with-

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I withdrew it, the point was covered with blood, The patient was directed to bathe the perinæum with warm water frequently, if the dyfury was urgent. He was much relieved by the introduction of the bougie, and did not want afterwards to void his urine oftener than every fecond or third hour. The calls were lefs urgent, and the fubfequent uneafinefs lefs in feverity and duration. After two days, a bougie of the fame fize was introduced to the extent of eight inches, and withdrawn; no blood adhered to its furface. A fmaller bougie, much curved, was now paffed into the bladder; the patient complained of the fame uneafy fenfation as before, when it entered the proftate; but he did not grow faint. The point was bloody for three quarters of an inch, but lefs fo than on its firft introduction. More relief was experienced this time. The urine was now voided only every fourth hour. Two days afterwards the bougie was again introduced into the bladder, confiderably curved, and with the point carried along the upper furface of the urethra, where it paffes through the proftate gland. 11 2.5

gland. The point was foiled with a yellowish fluid, flightly tinted with blood. As the patient was getting much better, the operation was not repeated till after four days, and then at the end of a week; at which time the blood and the yellow fluid had entirely difappeared. The urine was not voided more frequently than natural, nor was its expulsion attended or fucceeded by any painful fenfation. The ftrictures in this cafe felt firm, and not eafily dilatable: I thought it necessary to relieve them, left they fhould contribute to reinduce the irritation in the proftate; but the patient felt himfelf fo well, that he was averfe to any thing which might renew his former fufferings, and he has had no fymptoms of dyfury fince that period. The proftate in this patient was not enlarged nor tender. Conclusions fimilar to those, which were deduced from the former cafe, may be more fairly drawn from this; viz. that a difease may occur in the membrane of the urethra where it paffes through the proftate, and that it may render the bladder irritable, and produce ftrictures in the urethra; for in this cafe there brus! was

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was no mechanical obstruction to the expulfion of the urine to produce irritation in the bladder. It also appears, that the difease admitted of relief by the introduction of a bougie.

I have lately met with another cafe in a younger man, who is between twenty and thirty years of age, and who was afflicted with fimilar fits of dyfury, the caufe of which could not be afcertained. I paffed a bougie for him a few times, but found no ftricture in the urethra. The fame painful fentiations were produced in the proftate, as in the preceding cafes. The bougie did not appear at the time to relieve the dyfury; but the complaint gradually ceafed, and the patient left town. He has been much better fince this time, and attributes his relief to the paffage of the bougie,

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A gentleman, about fixty years of age, was affected with dyfury, which increafed in violence, though various means were employed during

during two years for his relief. He voided his urine every fecond hour, or oftener, with great pain and fevere irritation; which continued for fome time after its expulsion. He had fuch a fensation of heat and uneafiness in the perinæum, that he could not bear to bring his thighs together; and he was obliged to use a cushion, with a vacancy in the middle, when he fat down. He could not ride in a carriage, or even walk out, although his general health was good. A moderate-fized bougie halted a little at two firictures, and when it arrived at the proftate produced a violent burning fenfation, a vehement propenfity to void the urine, and extreme pain at about two inches from the orifice of the urethra; which part was always particularly painful during the time of voiding the urine, and after its expulsion. On withdrawing the bougie, which had entered the bladder, its point was found to be covered with blood. The proftate being examined, felt rather broader than ufual, but was not tender. The patient was relieved by the introduction of the bougie, which was repeated on the third day : it Buinh

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it went more freely through the ftrictures, and the fenfations, caufed by its paffage through the proftate, were diminished. The point of the bougie was bloody. I afcertained that the blood came from that part of the urethra which is fituated in the proftate, by introducing a large bougie to the diftance of eight inches, and then withdrawing it: the point was not in the least foiled with blood. The fecond introduction of the bougie produced confiderable relief. The urine was retained longer, the uneafy fenfation in the perinæum was diminished, and the patient could walk or fit down more comfortably. The bougie was used every third or fourth day for three weeks; and then once a week for a month longer, its fize being gradually increafed. The appearance of blood on the point gradually ceafed: it was afterwards foiled with a purulent and then with a mucous fluid, which appearances alfo gradually ceafed. The water was now voided only at intervals of four hours, the fubfequent pain being either trivial or entirely absent; the uneafiness in the perinæum was ATTIN.

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fo inconfiderable, that the patient could walk for feveral hours, and fit down without pain. The feminal difcharges had been attended with extreme pain, fo great as almost to produce fainting, before the state of the prostate had been relieved : they afterwards took place without any unufual fensation.

hes band then will drawing it; the

These cases shew that the urethra may become irritable and difeafed, where it paffes through the proftate gland, without any material diforder of the contiguous parts. They induced me to pay particular attention to the state of that part of the urethra; which attention will, in my opinion, be found of great confequence in directing our treatment of these diforders. As it would render this paper extremely voluminous to detail the particular cafes which I have met with, I shall merely relate the observations which I have made, and the inferences which I have drawn from them; that the profession in general may investigate the fubject, and determine how far these observations and opinions are correct.

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First, then, it has appeared to me that a flate of inflammation and irritation may take place in the remote part of the urethra to a greater or lefs extent. It may produce in the proftate that peculiar fenfibility of the part which I have deferibed; and in the perinæum it may caufe contractions of different parts of the canal. Either of these affections may be more permanent than the other, even where each part has been equally affected in the beginning. This state of inflammation and irritation is frequently produced by gonorrhœa, though it may occur from other caufes. If, injudicioufly, a bougie be introduced when this diforder first occurs in a gonorrhœa, numerous spasmodic strictures * are met with; the patient becomes alarmed by the difficulty of paffing the infirument, and by the name of firictures, and confults a more experienced furgeon, who directs local warm bathing, and of the urethers, where it p ontrangaount able

* I have used the term spasmodic strictures in the indiferiminate manner in which it is generally employed, though I am aware that it is objectionable: a stricture from spasm is not a stricture; and a stricture may be irritable or spasmodical, or otherwise.

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the application of leeches to the perinæum. The diforder is cured; the patient expects that ftrictures remain; a full-fized bougie is introduced to fatisfy him, which paffes without the least difficulty. I am unable to determine whether in fuch cafes the urethra is affected in the first instance in that part which passes through the proftate, as I never made any examination under these circumstances, though I think it very probable that it is fo. When a gleet becomes unufually protracted, it is frequently owing to the effects of this diforder in the remote part of the urethra, maintaining a degree of irritation in the front. Under these circumstances, it is allowable to introduce a bougie, when strictures will frequently be found in the perinæum; and in many cafes, the patients whom I have attended have experienced those fensations, which are characteriftic of tendernefs in the membrane of the urethra, where it passes through the proftate. If, therefore, we look to the origin of those cases, which we are called upon to attend in their advanced stages, we might expect to find the diforder of the urethra various with the

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with respect to the kind and extent of the difeafe. That it will be found fo in practice I do not hefitate to affirm, from the obfervations which I have already made relative to this fubject. In fome cafes, ftrictures in that part of the canal, which is fubject to fuch contractions, will be the fole difeafe. In others, an uneafinefs, and fuch fenfations as I have defcribed, will be complained of as the bougie paffes through the laft inch of the urethra, which is contained in the proftate gland. In fome cafes alfo, the ftrictures will be the lefs degree of the difease, and the irritation in the proftate the greater; and in fome cafes it will be found that nothing is difcoverable which can fairly be denominated a ftricture, and yet the tendernefs which I have defcribed exifts in a most painful degree. In deducing these difeafes from the inflammation which gonorrhœa excites, I mean only to trace them from a very common origin. The fame diforders frequently take place without having been preceded by that complaint. An attention to the circumftances, which have been mentioned, feems to me to explain the contradictory

dictory events which happen, when a fimilar plan of treatment is purfued for the cure of difeafes of the urethra. When ftrictures are the fole difeafe, they are often readily, and generally permanently, cured. When an irritation, fuch as I have deferibed, exifts in the proftate, it is difficult to enlarge the contracted portions of the canal; and, when that is accomplifhed, the firictures recur, as a caufe of irritation to the urethra ftill continues. In fome cafes, the enlargement of the ftrictures fails to mitigate the dyfury, and in others it is augmented by the meafures, which have been employed to cure the ftrictures, when the ftate of irritation at the neck of the bladder has been unadverted to. Many patients have applied to me under these circumstances, after having been under the care of other furgeons. They have flated, that fmall bougies only could be paffed in the first instance, and that though the largest could now be introduced, the complaint was no better; nay, fome have thought themfelves materially worfe. A bougie has paffed in these cases eight inches, without meeting any confiderable obstruction,

or

or exciting much fenfation; but, after this point, it caufed a moft acute and burning pain, with vehement defire to make water. Some have enquired if I was withdrawing the bougie, whilft it was flowly proceeding, and fome have complained of great pain in the front of the urethra. Similar cafes have occurred in my own practice. I have relieved ftrictures, without materially benefiting my patients; of late years, I may venture to fay, without making them worfe; becaufe I have been cautious not to hurt the canal, where it paffes through the proftate.

Some cafes of diforders of the urinary organs are made worfe in the attempt to cure ftrictures: and I think I deliver an important admonition, to the younger part of the profeffion, when I caution them to beware, in their attempts to cure ftrictures, that they do not irritate or injure the laft inch of that canal, where there are no ftrictures, but in which confiderable diforder may neverthelefs exift.

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In fome cafes of difeafed urethra, which I have not unfrequently met with, ftrictures are. found, through which a fmall bougie paffes with difficulty; and it produces those fenfations, in paffing through the proftate, which I have defcribed, as peculiar to that part of the canal when in a difeafed ftate. The patient, however, experiences relief from the introduction of the bougie; and if it be paffed again on the third day, it will meet with no obstruction from the strictures, and cause less uneafinefs in paffing through the proftate. I have then taken a bougie of a larger fize, fuch as it would have been impoffible to introduce in the first instance, and this has paffed through the strictures to the distance of eight inches; but I have forborne to carry it any farther, left I should irritate the urethra near the neck of the bladder. It appears therefore to me, that you may relieve or aggravate strictures in fuch cafes in proportion as you diminish or augment the morbid fensibility of the remote part of the urethra; and an attention to the flate of this part is on this account of the greatest importance.

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Having thus adverted to the probable origin of the difeafe, which I am endeavouring to defcribe, and its connection with strictures, I proceed to obferve, that fuch a ftate of morbid fenfibility in that portion of the urethra, which paffes through the proftate, may perhaps exift as a fymptom of an irritable bladder. If the lining of the bladder were inflamed and irritable, it is probable that the diforder would extend into the urethra for fome fmall distance. In the fourth cafe, I believe that the difease in question was complicated with an irritable ftate of the bladder; but whether it was to be confidered as an adjunct circumstance, or in the relation of caufe or effect, cannot be determined. The irritability of the bladder was diminished, but not cured, by the treatment which leffened this difeafe. In one gentleman, who apparently died of an irritable bladder, and who complained of the fenfations, which I have defcribed, in an acute degree, on the bougie paffing through the proftate, the difeafed parts were examined, but very trivial morbid appearances were observed. The lining of the

the bladder was not perfectly natural, and was inflamed; yet the difeafed appearances were not ftriking; and in the urethra the deviation from the healthy ftructure was ftill lefs fo.

which paffes through the put site, may per-

It is not improbable, however, that fuch a morbid fenfibility of the proftatic urethra may arife from an irritable bladder. Perhaps, alfo, it may occasionally arise from the irritation of the last stricture. Many patients with strictures, who complained much of the fenfations at the neck of the bladder, at the commencement of the treatment of their complaint, have afferted, that they felt no unufual fenfations when the bougie paffed through the proftate, after the ftrictures had been cured. Yet, though I would admit that a tenderness of the canal of the urethra in the proftate may fometimes arife from its proximity and continuity with the lining of the bladder, or with the last stricture, I think it more frequently exifts as an original and independent difeafe. It has been fhewn, that it may render the bladder irritable, and excite contractions Solt

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tractions in the urethra. Some cafes have been adduced, which flow that this flate may exift, and yet the bladder may not be conflantly irritable, but that it may be affected by fits. I have alfo met with a cafe where this fenfibility exifted in an extreme degree, and yet it feemed to have very little influence on the bladder. I have likewife known this irritable flate of the urethra complicated with the common enlargement of the proflate.

I proceed, in the next place, to relate what I have obferved refpecting the treatment of the difeafe, which I have been deferibing. The three firft cafes flew, in a firiking manner, the advantage derived from the introduction of bougies; and I have feen many fimilar ones, though I fearcely think fo demonftrative of the utility of this mode of treatment. I know fome patients with occafional attacks of dyfury, and who have this tendernets of the remote part of the urethra, in whom the passage of a bougie, together with warm bathing of the perinæum and adjacent parts, very fpeedily relieves a difeafe, which

which had proved very tedious and diffreffing, before these measures were adopted. If a bougie be introduced, for the first time, in a cafe of this defcription, fevere pain is felt, and faintnefs is occafioned: if this operation be repeated three days afterwards, the pain perhaps is much lefs fevere, and it may diminifh at each fucceeding introduction of the instrument. Should this be found to be the cafe, furely nothing need be farther faid in commendation of this mode of treatment. The morbid fenfibility of parts is diminished by it. This happened in the three first cafes in a remarkable degree, and I have known it take place in many others. Nor is there any thing in this event that fhould excite furprife : every furgeon is familiar with the fame circumstance, with relation to strictures in the urethra. The first introductions of a bougie are very painful; the fubfequent ones are even difregarded. Still, however, I think it may be useful to dwell a little on this subject, and confider the probable caufes of these effects, as it may tend to eftablish rules for our conduct in practice. It appears to me, that we diminifh 1 2211 11 -

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diminish the morbid as well as the natural fenfibility of parts by doing them a degree of violence, fhort of that which produces a kind of re-action in them, by which their fenfibility is heightened. This is, indeed, the confideration, which guides my practice in thefe and in many other cafes. If, even in ftrictures of the urethra, the fenfibility of the canal becomes increafed by the introduction of bougies, or, in other words, if inflammation is excited, furely it is wrong to profecute fuch measures at this juncture. If the morbid fenfibility be diminished, we may use more freedom in the profecution of our measures. In paffing the bougie, in the cafes now under confideration, it ought at first, I think, to be fo fmall as not at all to diftend the irritable urethra. I have always curved it confiderably, and kept the point in contact with the upper furface of the urethra, as it paffes through the gland. I recommend warm bathing to the perinæum, with a view to obviate or diminish irritation. If I find, on the fecond introduction of the bougie, the fenfibility of the parts diminished, it induces me afterwards to proceed

proceed more freely; but at all times with a caution excited and regulated by the confideration which I have mentioned. Now, though fuch conduct has been fuccefsful in many inftances, I am concerned to ftate, that it has failed in fome others; and, when I clearly afcertain that I am not likely to fucceed, I ceafe to make farther attempts by the introduction of bougies, and purfue only general methods, fuch as warm bathing, bleeding by leeches, &c. When there are ftrictures, which it is right to enlarge, I pass the bougie through the last stricture, without carrying it on, fo as to irritate the tender part of the urethra, which lies behind it. A knowledge of the nature of difeafes cannot but be defirable, even though it does not enable us to cure them all. If ftrictures are removed, and dyfury remains, I believe it is common to confider it as arifing from an irritable bladder: now, though this may be a general truth, there are many exceptions. I do not find that attention is paid to that defcription of cafes, which makes the fubject of the prefent paper: I was unacquainted with them till

till I met with the cafes which I first mentioned: the knowledge which I have thus obtained has enabled me to afford relief in many cafes, and has prevented me from error in others.

I thall relate two cafes, and fay a few wordson the treatment of this complement which is a congenital defarmity, confiting in a clufter of enlarged veffels, filled, and occationally diffended by the influe of blood from nn-1 merous furrounding attenies. The deformity to which I allude is fo well known and for frequent an occurrence, as to preciede the necellity of any defeription. Mr. John Bell has of late proposed an ingenious theory of its formation, and has denominated it an ancusymal enlargement of the vehicles in confequence of their anaftomoles. "There dam he' no doubt that the repletion, diffention, and nonfequent colargement of the diluted verfeis

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tioned with the cafes which I first mentioned : the denowledge which I have thus obtained has enabled me to afford relief in

On the Treatment of one Species of the Nævi Materni.

I fhall relate two cafes, and fay a few words on the treatment of this complaint, which is a congenital deformity, confifting in a clufter of enlarged veffels, filled, and occafionally diftended by the influx of blood from numerous furrounding arteries. The deformity to which I allude is fo well known, and fo frequent an occurrence, as to preclude the neceffity of any defcription. Mr. John Bell has of late proposed an ingenious theory of its formation, and has denominated it an aneuryfmal enlargement of the veffels, in confequence of their anaftomofes. There can be no doubt that the repletion, differtion, and confequent enlargement of the dilated veffels depends

depends upon a kind of inflammatory action of the furrounding arteries; for, if that be wanting, the mark ceafes to enlarge, and if prefent, it increases in fize in proportion to the degree of inflammatory action. In many cafes these marks, having increased to a certain degree, ceafe to enlarge; they then remain stationary, or gradually diminish, till they almost disappear. This occurrence is not fo frequent as to induce furgeons to expect fuch an event, or to prohibit, in confequence of fuch expectation, their removal. For, if they continue to enlarge, the operation must be commensurate to their fize. The confequences of their burfting are alarming and vexatious. It is not, however, my intention to fpeak of these affections in general, but only to ftate what, perhaps, may in fome inftances be done with fuccefs, when the removal of the unnatural ftructure cannot be accomplished. For this preternatural enlargement of veffels is not always cutaneous. I have feen it occupying the whole fubstance of the cheek, neither appearing beneath the ikin nor the membrane of the mouth: I have met

met with it in the orbit of the eye, and have found it covering the whole of an extremity, or nearly one half of the trunk of the body. If any means can be purfued, under fuch circumftances, to check the progrefs of the complaint, they furely deferve attention. I was lately fo fortunate as to fucceed in fuch endeavours, in cafes, the relation of which is my chief object at prefent.

CASE.

A child about two months old was brought to St. Bartholomew's hofpital, with this unnatural enlargement of veffels, diffributed every where beneath the fore arm, from the wrift to the elbow. In a fhort time it had fwollen to that degree, that the circumference of the affected fore arm was twice the fize of the other. The veffels were large and contorted; and to give the reader an idea of their appearance, I may mention that the child's mother affirmed that they refembled the entrails of a pig, with which fhe had either been frightened or difgufted during her pregnancy. The

The fkin was of a dufky hue, and had not its natural fmoothnefs of furface. The heat of this fore-arm was much greater than that of the corresponding found one. Preffure forced the blood out of the veffels, and temporarily diminished the bulk of the limb, and made it of a paler colour. The child's mother lives at Turnham Green, where Mr. Graham, an ingenious furgeon, who was for a long time a ftudent at St. Bartholomew's Hofpital, alfo refides. I requefted this gentleman to take charge of the cafe, and try the effect of the following plan of treatment, which it feemed to me right to institute. First, I was desirous of ascertaining whether a permanent and equable preffure would not prevent the diffention and confe-1 quent enlargement of the turgid veffels; fecondly, whether reducing the temperature of the limb would not diminish the inflammatory action, upon which their repletion feemed to depend. Thefe two intentions admit-1 ted of being readily accomplifhed. A many 3. tailed bandage of flicking plafter feemed adequate CAEL.

adequate to effect the first, and wetting the limb with water the latter. These measures were judicioufly carried into effect by Mr. Graham; the prefiure was first made flightly, and afterwards more forcibly, as the part feemed to bear it without inconvenience. A roller was applied over the platter and kept wet, if the limb felt hotter than natural, fo as to regulate its temperature. The fuccefs of these measures exceeded our most fanguine expectations. The fize of the limb gradually diminished, and its temperature became natural. After fix months, Mr. Graham removed the bandages, which it was not necessary to continue any longer. The limb was in fome degree wafted, from preffure and difeafe, but it foon gradually re-acquired its natural fize. After the bandages had been left off for a month, I faw the child. The fkin was pale and had a flightly fhrivelled appearance. The contorted veffels felt like folid chords interposed between it and the fascia of the forearm.

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CASE.

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firucture remains.

open its eve. Shortiy afferwards all motivat

A child had this unnatural ftate of the veffels in the orbit of the eye. They gradually increafed in magnitude, and extended themfelves into the upper eye-lid, fo as to keep it permanently clofed. The cluftered veffels alfo projected out of the orbit, at the upper part, and made the integuments protrude, forming a tumour as large as a walnut. Of course, the removal of this difeafe did not appear practicable. I was confulted on this cafe by Mr. Hurlock, whom I told of the fuccefs of the former experiment. Preffure to any extent was here evidently imposfible; but the abstraction of heat, and confequent diminution of inflammatory action might be attempted. I recommended that folded linen, wet with role water faturated with alum, fhould be bound on to the projecting part, and kept conftantly damp. Under this treatment the diforder as regularly receded as it had before increafed. After about three months it had gradually funk within the orbit, and the child could R feffional open

ON THE TREATMENT

open its eye. Shortly afterwards all medical treatment was difcontinued, and no appearance of this unnatural ftructure remains.

A third cafe of a very extensive mark of this defcription, covering the back and shoulder, got well, as I am informed, by the fame treatment. I have not, however, been able to learn the particulars. It appears to me probable, from the foregoing cafes, that if the preternatural distension of the vessels could be prevented, the blood might coagulate in them; and thus this unnatural contexture of vessels, being rendered impervious, might become obliterated.

The beft mode of obtaining and increasing profeffional knowledge is, in my opinion, to pay that ftrict attention to cafes, which enables us to note those nice shades of difference, which diftinguish difeases from each other; and also to form some regular arrangement of them; fo that, ultimately, we may be able to difcover their natural series and order. This method I have pursued from the beginning of my professional feffional ftudies. Whenever the opinions, which an attention to cafes had imprefied on my mind, differed from those which seemed to prevail amongst other practitioners, I published the cases, and the inferences which I drew from them; becaufe I thought the cafes, at least, deferved attention, and that the justnefs of my opinions would either be confirmed or confuted by those of the public. It is alfo of acknowledged utility to the promotion of fcience, to excite investigation, and even publicly to announce the deficiencies of our knowledge. Such were the confiderations, which induced me to lay before the public my former and the prefent effays and observations. I am induced to mention my motives, though indeed they are fufficiently apparent, because I suspect that I may, on this occasion, be again censured for producing unfinished performances, and for not paying fufficient attention to the records of fimilar cafes, which are contained in books. The very defign of the work includes in it, however, a degree and acknowledgment of imperfection; and

MONISTRO,

and what I with to obferve on this fubject will be beft expressed in the words of Horace :

" Est quodam prodire tenus ; si non datur ultrà."

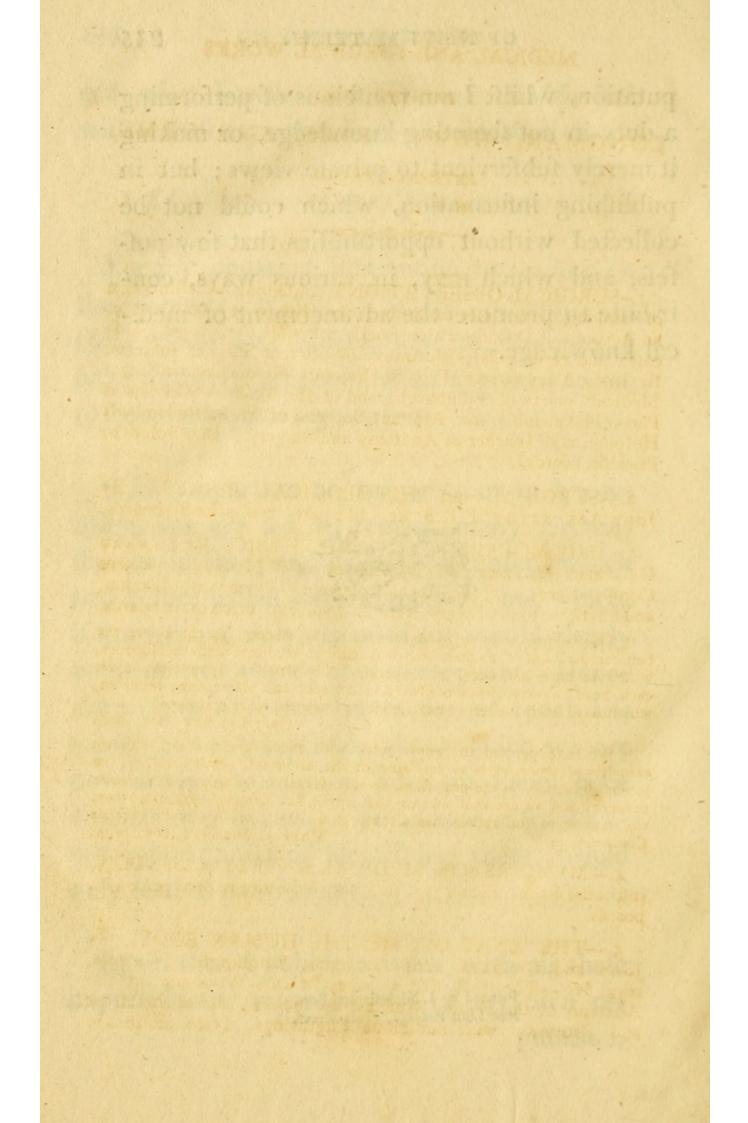
For my apparent inattention to reading on the fubjects, which it is the intention of these effays and observations to illustrate, I have formerly affigned, what appeared to me to be an adequate apology—

"In proportion as we advance in knowledge, we are led to remark many circumftances in the progrefs of a diforder, which had before paffed without notice; but which, if known and duly attended to, would clearly point out the nature of the complaint. Hence the records of former cafes are of much lefs value; as the fymptoms, about which we are now anxious to inquire, have, in them, been entirely overlooked." To adduce cafes without opportunities of identifying them, would only lead to controverfy.

Again then I publifh a work, with all thefe imperfections, regardless too of my own reputation, putation, whilft I am confcious of performing a duty in not fecreting knowledge, or making it merely fubfervient to private views; but in publifhing information, which could not be collected without opportunities that few poffefs, and which may, in various ways, contribute to promote the advancement of medical knowledge.



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