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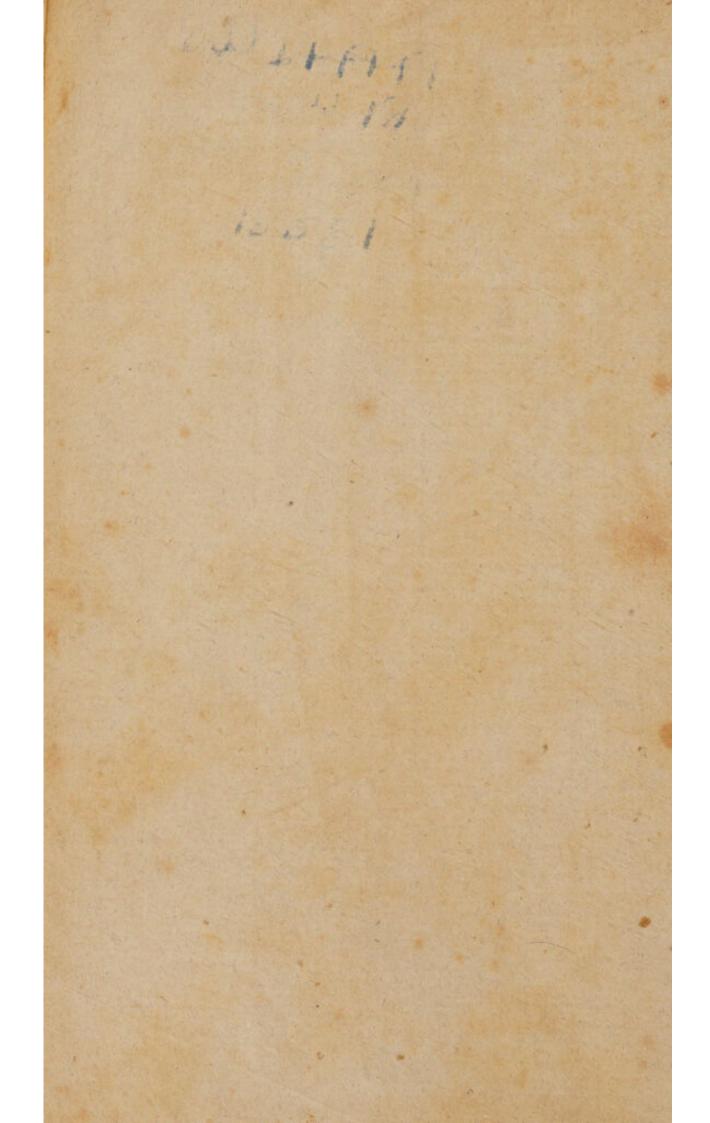
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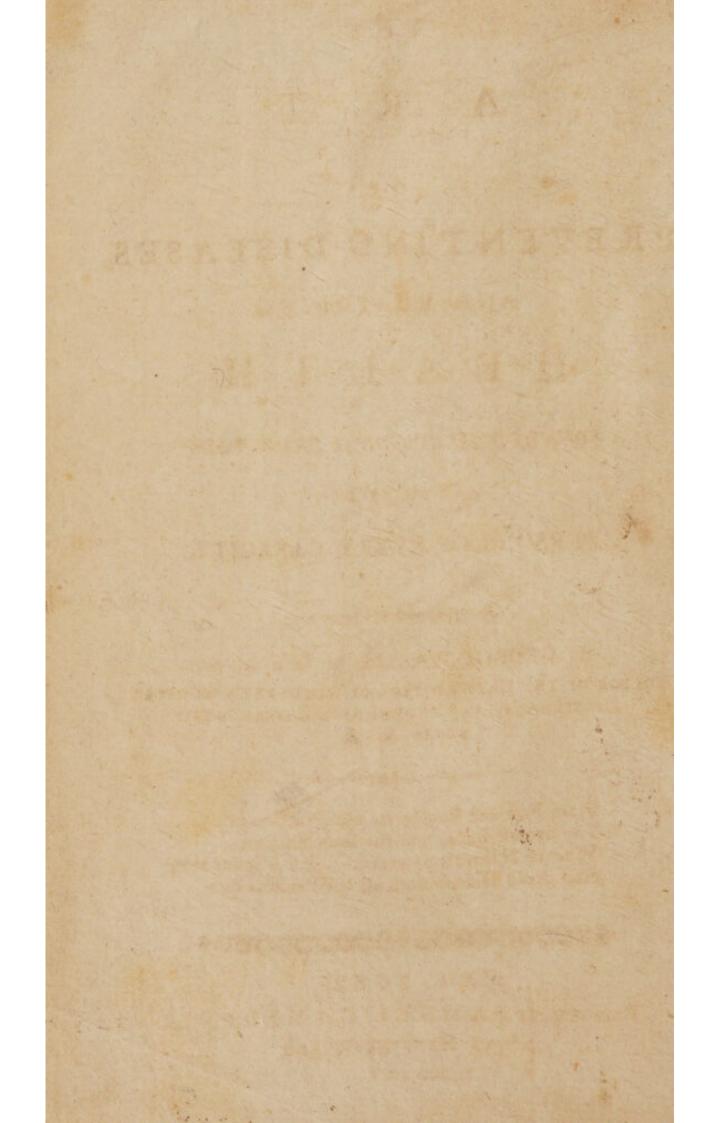


Medical Society of the Caunty of Queens, Inc.
112-28 Queens Boulevard, Forest Hills

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ART

OF

PREVENTING DISEASES,

AND RESTORING

HEALTH,

FOUNDED ON RATIONAL PRINCIPLES,

AND ADAPTED TO

PERSONS OF EVERY CAPACITY.

By GEORGE WALLIS, M. D. S. M. S.

EDITOR OF THE LAST EDITION OF MOTHERBY'S MEDICAL
DICTIONARY, AND SYDENHAM'S WORKS, WITH
NOTES, &c. &c,

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From Fact and Reason we our Practice draw, The firmest Basis, and the soundest Law, Whence Nature's powers in sulfest Vigour rise, And dread Disease with all his Phalanx slies.

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NEW-YORK:

PRINTED BY SAMUEL CAMPBELL,
No. 37, HANOVER-SQUARE,

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EXPLANATORY PRE SCP.

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EXPLANATORY PREFACE.

In the perusal of several works on the prevention and cure of discase, I have seldom met with any that, according to my conceptions, have been formed with sufficient perspicuity; for though simplicity of stile may be essentially necessary, considering the class of people to whom such labours are addressed; still I see no cause, why the very principles and reasoning by which they ought to be directed in their pursuit should either be totally omitted, or treated in so slight a manner, as not to afford any material advantages—the principles I mean are, the NATURE OF CONSTITUTIONS, and THE IMMEDIATE CAUSES OF DISEASE; for whether we wish to prevent or cure, these two points must ever be kept in view. To prove this, let us inquire, by what are we directed in our attempts to avoid disease?

From the knowledge of the remote causes, being well acquainted with the effect which they are calculated to produce in the machine, and preventing their accession; but in all cases this cannot be done; in many, prevention of that circumstance is impossible—how then must we act? By so regulating the powers of the constitution, that it may be placed in such a state as to be rendered incapable of feeling the effect of the remote

cause.

And how can this be accomplished without being thoroughly acquainted with the nature of the constitution itself; Indeed, it seems not only necessary in this respect, but also to render the disease, when the cause has produced its consequences, as mild as possible. Various proofs of the validity of this doctrine will arise upon slight consideration. In inoculating for the small-pox, we find very often great variability in the disease; and this cannot, it is clear, be owing to the matter by which the complaint is occasioned, having any variability of action; for the same matter taken from the very same pock will produce in different habits a disease of very different natures, with respect to mild-ness or malignancy—it is therefore obvious the variation must arise from some deviations in the separate habits, which require

different modes of preparation;—and, probably, it is owing to want of accuracy in this point that some children after being inoculated die, and several fall into other maladies.

With respect to the other principle to which we must advert with regard to the cure ; we should confine ourselves to the IM-MEDIATE CAUSE or CAUSES, which, acting in the habit, produce those symptoms, an enumeration of which is called disease; for all other canfes in this point of view are of no avail. Matters it by what means the disease has been occasioned, fince the action of that cause is past? the effect at this time acting as a cause, claims only attention, for that conquered, the disease vanishes. To explain, let us take the Dropfy,-its causes have been faid to be, " an hereditary disposition-drinking strong li-" quors, want of exercise, excessive evacuations-sudden stop-" page of those which are customary and necessary-large quan-" tities of cold, weak, watery liquors drank when the body has " been over-heated by violent exercise- a low damp marshy fi-" tuation-long use of poor watery diet, or viscous aliment that is hard of eigeftion. It is often the effect of other difeases, as " jaundice, feirthus of the liver, violent ague of long continuance. lobfeneis, dyfentery, an empyema, or confumption of " the lungs-in thorr, whatever obstructs perspiration, or pre-" vents the blood from being duly prepared, may occasion a " dropfy." These may produce this malady, I do not deny, but that not one of them is the immediate cause against which our remedies are folely to be levelled to perfom a cure, nor any number of them, except such of which dropfy is only a symptom. It is to the effect brought on by these causes that we are to attend, which I take to be general relaxation of the folids -- a thin watery blood-and a weakened action of the absorbents, (23.*) by which more water is thrown into the cellular fystem and different cavities by the exhalent, than can be taken up by the abforbent vellels.

From the enumeration of the former, not any thing can be collected respecting the cure--but from the immediate causes every thing, as they plainly point out the indications, viz. to invigorate the folids, and increase the action of the absorbent system, that the water may be taken from the places wherein it is deposited, and thrown out of the machine.

It was the defect in these particulars that furnished one principal reason for presenting this work to the public, in order to supply other information absolutely necessary, and more essentially beneficial. I have therefore been obliged to divide the

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[.] Where the figures are put without the No. these refer to the Page ... where with the No. on fueceeding it, to the Preier prions in the different forms ... and this throughout the work.

work into distinct heads—the first of which comprehends the INATOMY of those parts in which reside the active powers of he constitution chiefly, with intent to make my reader acmainted with the nature of them, their uses, connections, and lependencies; that he might have some idea of the materials apon which he was to act; as well as be taught what he might expect from them; for to attempt to teach a man the mode of proceeding in any art, without informing him of the nature of the subject to which he is to direct his attention, would be like hrowing a rough diamond to a glass-grinder, he might destroy, out never polish. Suppose a man seized with a pain in his sowels, attended with trifling evacuations, he fees cordials are good in some of these cases, and slight opiates—he takes them, they give him relief for fome time-they return more violently, he has recourse to the same remedies, 'till an inflammation comes on-confidering the intervals of eafe he has obtained, he has no conception how this can arise—let him be informed of the structure and nature of the bowels, he will soon understand that they are subject to irritating causes, liable to inflammatory affections; and readily conceive why those irritating causes must be removed before cordials and opiates should be taken; which he could never do without fuch knowledge of the parts. Indeed, I believe for want of this many have fallen facri-

The parts being shewn in their simple state, I have next spoken of them collectively, shewing the nature of different constitutions, which are formed by the combinations of these. I conceive this knowledge essential necessary towards the preventing of disease, palliating such as are incurable, and conquering those which lie within the reach of our powers; for there are a variety which require particular attention, in order that full essentially be given to our regimen, and medical treatment; for, without the one is properly adapted to the other, we shall not only be foiled in our attempts to cure; but the very means used for preservation from, will be instrumental in bringing on disease, which too frequently proves mortal. This we need not here farther elucidate, as what we have said in the former part of the presace, and in the introduction, render it unnecessary.

Thus far the parts of the machine to be acted upon have been confidered. It remains now to speak of those which are the agents, the NON-NATURALS, so term'd, and MEDICINAL SUBSTANCES—the first of which have called forth my attention, in order to shew the great influence they have on, and how by being properly managed, they contribute to keep the

body

body in a flate of health; for it is almost folely on them that we must depend for this purpose---for good air---proper aliment, moderate in quantity---suitable exercise and rest---with due subordination of mental affections, form the best plan for our bodily security—we have therefore endeavoured to shew how they act under different circumstances, and how necessary it is to lay down rules with respect to them; which, by observing, supply the most pleasing consequences—freedom from pain, vigour of mind, and a placid old age; and, by neglecting, the contrary extremes---besides, we have considered some of them with respect to their powers as medical substances, and shewn how they act, as by these means we might afford an opportunity of properly combining the two, that they might affish in strengthening, and not, by producing contrary effects, counteract each other.

As for medicines, there, perhaps, my reader may confider me too fystematical, as I have preserved the terms of the tchools, and reasoned too abstractly, perhaps, according to his comprehension. However, when it is known that I have given the derivation of every term, and explained the powers of each class, as commonly conceived, in a manner to render them in this place easily intelligible; for the terms themselves, once understood, are infinitely more expressive, and involve more ideas than any other which might be thought more familiar, I shall, I hope, fland excused, as well as for dwelling upon the powers which medicines exert; for it appeared not only necessary to speak of the good that was likely to accrue from this action, but also of the mischief which they might create, injudiciously applied; therefore I was to exhibit them in different views, that it might be known where their exhibition was fafe, where uncertain, or perhaps detrimental---because a medicine may be proper respecting a complaint to be relieved, but its mode of action injurious to the conflitution --- for instance, costiveness is to be removed, if it should be attended with heat and pain in the bowels, shewing that in them there is a great irritation, and that the blood must circulate too freely, the stimulant purgatives, are improper, (173.) -- if there should be coldness in them, and the blood circulates uncommonly flow and languid the cooling, (171.) fhould not be used --- and if habitual costivenels be an error of the habit, the aftringent kind, (172.) should be avoided.

I should be taxed by some of my semale readers with inhumanity, if the rising race of infants were forgotten, with whom many have said little is to be done. Take them from the indulgence of sond parents; the vanity, ignorance, neglect, and selsishness filhnels of conceited nurses, I believe very little would be necessarp; save where they, like adults, were liable to be affected with accidental complaints, and then properly nursed, they would be more readily cured. To the formor I can only reply; my animadversion must yield to "who can help it." I lament the misfortune of the infant, and pity the feelings of the parent, whose partiality lays the foundation for ten thousand heart-aches—and to the customs of the latter, with all their train of possons, I oppose the plain directions given under the article Nursing—to the perusal of which I recommend all mothers, and rational superintendants, and leave it to speak for itself; it is uncomplicated, sounded upon facts deduced from observation and experience, and supported by the voice of reason-

The parts of which we have here spoken form what is necesfary to be understood before any one should enter on the practice of physic, as without these the adventurers sail upon the bosom of a dangerous sea, divested of rudder and compass. It must be so clear to common observation, that I shall consider it admitted; and proceed to close with the account of the practical part—and here I have laboured to be as simple, and usual-

ly concife, as the nature of fuch a work would admit.

After shewing the tendency of the disease in general, I have particularised the description of each, that is, collected the symptoms which have happened, forming its history; but as the whole of these do not always occur, yet still would burthen, from their number, the memory of those who have slight knowledge, or are totally uninformed—out of those I have selected the characteristic figns, by pointing out such symptoms as are agreed always to attend, laying down before the remote or immediate causes: because if it appears that the patient has been in the way of the former, it increases the probability of his being attacked by the latter, which give origin to the disease. In this there feems to be a peculiar advantage, because the immediate cause or causes being remembered, leads us fairly to account for a number of the symptoms by which the patient may be oppressed-This needs no exemplification, on comparing one with the other, it will appear obvious.

With respect to the medicinal substances, a catalogue is given of them classed under different heads, with the common doses annexed, and also a variety of formulæ—in the first place, for the purpose of supplying a number of materials possessed of similar powers, though in different degrees, under one head; that the prescriber might have an opportunity of making his own election, and varying them as particular circumstances might require; besides empowering him to prescribe in the most simple manner-

in the fecand, to shew the nature of medical composition, how and in what forms particular ingredients might be united; and here I must observe, that the compound medicines I have used are chiefly those of the last London dispensatory; where they are

not, they are part cularly specified from whence taken.

There are, also, other advantages in this work, which will be to young students of no little consequence; for here they will be relieved in their investigation of the real meaning of technical terms, as they are either explained in the body of the work where they occur, and references made in the Index, or in the Index itself; and the various articles referred to different places will shew them the different powers they posses, as well as the best modes of composition—for instance—myrrh is referred to 143. 164. 183. 193.—by these it will be shewn, that it is a stimulant—expectorant—emenagogue—and antiseptic, and the rest of the numbers following the letter F. will refer the reader to the different forms in which it is prescribed.

Such, then, my plan, such my reasons on which I risque its support. It is not for me to determine whether it is happily conceived, or well executed. Some things have I borrowed, much altered, and many additions made, wherever I thought it might answer any good purposes; for my intent

was-

To give rational information to those, who, not being properly educated, are obliged to practise from necessity; declaving, at the same time, my wish to stop the daring hand of inconsiderate rashness, bold from ignorance, and careless from

contempt of focial dury,

To convince those who are led by humanity, or whom inflinctive whim, too oft mistaken for that virtue, prompts to visit the miserable roofs of fickly indigence, that something more is necessary to constitute the medical pilot---to convince them, that in family recipes, and borrowed nostrums there is little success, and less security---that is stimulated by the desire of doing good, the materials to which they should be limited, lie within a narrow compass--warmth--decent cloathing, moderate living, industry, and cleanliness. These form the regimen of conscientious elegance; and are, nine times out of ten, the poor man's best prescriptions--these are the powerful cordials--these the restoratives of a good Samaritan--and with these every hospitable house-wise would be a physician superior to an Hippocrates without them.

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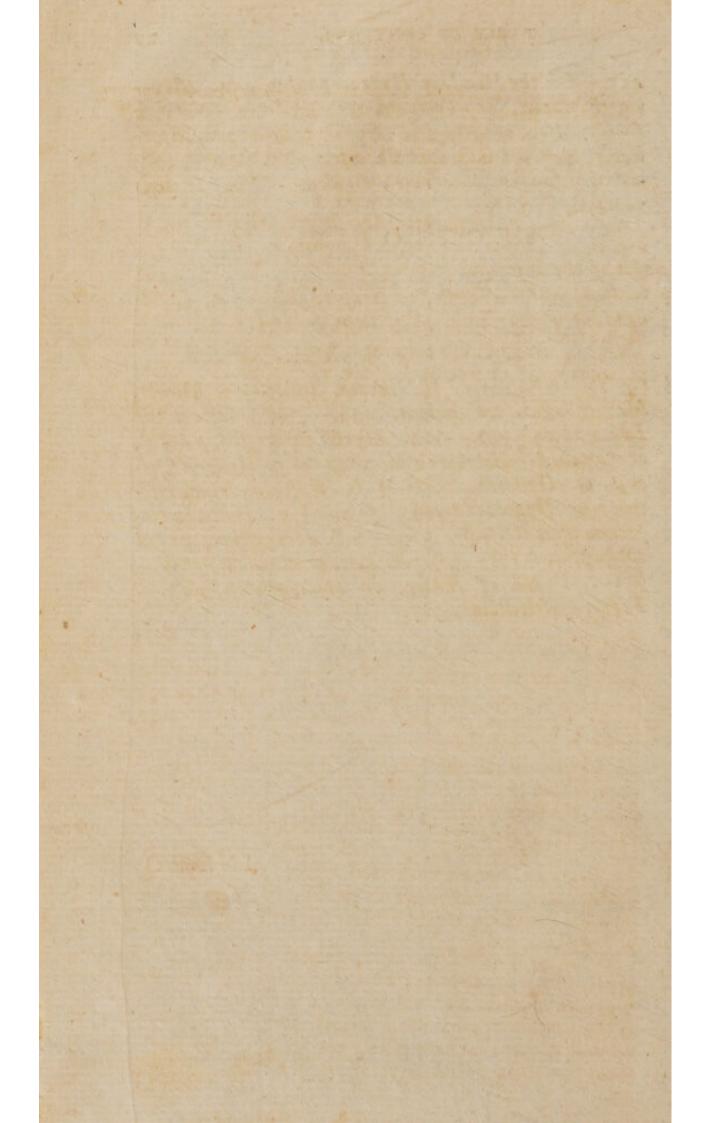
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INTRO-



INTRODUCTION.

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SECTION I.

When we reflect on the precariousness of man's existence in this life, the multiplicity of dangers with which he is surrounded, even from the first moment of his being to his ultimate stage; and also that the fabric of his machine is so formed, that the means necessary for its preservation are so many instruments wearing out its powers and conducing to dissolution; and, at the same time, consider, that he is subject to an immense variety of diseases, which often occasion him to drag out a life of pain and misery; nay, frequently cut him off even in the bloom and vigour of his age: it will not appear extraordinary that many men of the first, and most distinguished abilities, have devoted themselves, not only to the study of Medicine, in order to cure those maladies, by which man is constantly attacked; but also prevent their origin, or the mischiefs which are apt to succeed.

From the time of GALEN, who has, upon this last subject, written most elaborately, to the present day, we have had various publications, calculated to instruct mankind in the Art of preserving Health, preventing Diseases, or shortening their Duration by the use of judicious applications: indeed, of late years, their particular documents have been studiously conveyed in such a style, as to be readily intelligible to common understandings; so that each man might become, in some degree, his own Physician. Such laudable undertakings merit the highest praise, and, if well conducted, promise the most salutary consequences; for there can be no doubt but the modes of preventing Diseases, shortening their Duration, and warding off their evil tendencies by early assistance, are not only the easiest, but safest, and most pleasant.

What has been written on this subject may to many, perhaps, appear sufficient: and so it probably might be, were all men's conflictutions similar; for the methods advised by many of those authors, are selected with great judgment, and extremely well calculated to answer the ends proposed, under the circumstance above specified; but there seems to be a very great defect in all

the

the publications which have treated on these subjects—they give no information to their readers how the variations of constitutions are to be distinguished, or in what cases the methods are properly to be altered; and without this the prescribing of remedies can be considered little less than a species of quackery,

by whatever authority it may be fanctioned.

The universality or generality of any medicine furnishes the idea of the most slagrant absurdity, suitable only to the arrogance of every ignorant impostor; and certainly appropriating remedies of the same specific nature to one complaint in all constitutions, however dissimilar, is, at least, a branch of the same tree; for it is a fact uncontrovertible, supported by the soundest experience—that what may be of great service to one constitution, may to another be highly detrimental, though labouring under the same affection.

To elucidate this, I shall adduce a very familiar example—to many of my readers, perhaps, experimentally comprehensible; I mean the mode of obviating the effects of INEBRIATION.

Under this circumstance we will suppose a man of strong stamina—full habit of body—with good digestive powers, and a nervous system acting with sirmness and regularity; and one, of a relaxed constitution—not abounding with blood—a weak,

delicate flomach-and the nerves eafily irritated-

The advice to alleviate the conflitutional diffurbances occasioned by this indifcretion—is lying in bed, and promoting perfpiration by plentiful dilution, that is, drinking copiously of weak tea-small broth-thin gruel-weak white wine or vinegar whey-or fome fuch liquors warm, that the fuperabundance may be evacuated with which the patient has been loaded, and the body foaked, as it is termed, into its fober flandard. For the robust man the advice might be proper-for by the surcharge of the vafcular fystem, and the stimulus of the intoxicating liquids, his habit becomes nearly to assume an inflammatory difposition, discovered by pain and a sense of fulness of the head; redness of his eyes; quick strong pulse; much heat, and great thirlt-which are the general concomitants of such a debauch; and thus he requires abstinence, evacuation, rest, and dilution for his alleviation. But the same mode, applied to the other, renders all his constitutional defects worse, he experiences the uneafy fenfations of languor, fickness, oppressed spirits, and undescribable finkings --- all increased by such a regimen; whose good consequences are derived in the former cure from relaxation and debilitating the fystem. The delicate constitutioned man requires fresh air, riding on horseback, a glass or two of generous wine, or fome cordial, fuch as will invigorate the pow-CIS

ers of his habit, promote valcular action, firengthen his ffomach, increase insensible perspiration, and thus conquer those unhappy feelings he labours under from increased weakness and debility. Simple as is this fact, and of little confequence as it may be thought, the same peculiarities occur in diseases of the most alarming nature; and I am perfuaded that it is from ignorance or inattention in this point, that people are apt to increase their maladies, nay often make that, which would, left to itself, have been mild, become dangerous by applications not adapted to the particular nature of the constitution. For as curing difeafes depends on the knowledge of this particular, by which we can more certainly appropriate our remedies to the benefit of the afflicted, so doubtless must it be a more effential point in preferving from, preventing, and shortening their duration, as in all our endeavours we must attempt to keep the constitution in, or bring it to a state of health, confishent with the principle of its formation, and the nature of the particular parts of which it is formed—and how can this be accomplished without the peculiarities of the constitution are known to the person applying remedies, or fixing on any regimen?

In order, therefore, to attain this point, as these sheets are addressed to the un-informed, it appears unavoidable to give some account of the human machine, with regard to the structure, dependencies and action of its parts, before we enter on the means to be used in particular cases, that every man may be informed of the materials upon which his remedies and regimen are to operate; be able to discover their particular state, and hence proceed with some degree of regularity and certainty.

Now the human machine confilts of SOLIDS and FLUIDS, differently disposed, for the purpose of supporting each other; so that as the parts are worn away or destroyed by the necessary actions of life, they may be again supplied; and this diminution and accession preserves a constant routine, until the animal agreeable to the laws of nature, is destroyed by its own exertions, the machine being rendered incapable of continuing its vital actions: thus, without any preternatural cause, gradually descends to the grave.

But in order to promote the different purposes allotted to the folids and fluids for the well-being of the human body, they are variously divided.

The SOLIDS into bones, cartilages or griffles, ligaments, muscles with their tendons, nerves, vessels, glands, and membranes.

The FLUIDS, into blood, nervous fluid; perspirable matter flowing through the skin infensibly, or in form of sweat; saliva C 2 separated

feparated by the glands of the mouth and throat; ear-wax; mucus; gastric and intestinal juices, liquids secreted into the stomach and bowels; cystic and hepatic biles, separated by the liver, lodged in part in the gall bladder, in part emptied into the first bowel called duodenum; pancreatic juice, or that of the sweet bread; urine, semen, liquor of the prostrate gland, and that shuid which moistens the internal surface of all cavities; the glary mucilaginous liquid of the joints called synovia; tears, mucus of the nostrils; a white nutritious shuid separated from the food in the intestines, called chyle, lymph, fat, and marrow.

It will not be necessary to give prolix accounts of the different component parts of the human machine; but only such as may enable our readers so far to understand the anatomy, as to furnish ideas sufficient to assist them in pursuing the suture subject with some requisite degree of accuracy.

CHAP.

CHAP. I.

Of the BONES, CARTILAGES, and other component Parts of the Body.

THE BONES are the hardest, and most solid parts of the human machine, calculated to support those which are soft and less firm, in all their motions and pressures; they are covered with a membrane, or thin bladdery substance, called periosteum, on account of its covering the bone, which is exquisitely sensible, being plentifully supplied with nerves and blood vessels. The outsides of bones are commonly more compact than the inner parts; and are formed of plates, joined together by transverse sibres; their insides are spongy and cellular, in which is contained marrow, within membranous bags, filling up the cells; this marrow, being more or less distributed over all the bones, and transuding through their plates and sibres, makes them tougher, and less brittle; the bones are supplied both within

and without, with blood veffels and nerves.

CARTILAGES or GRISTLES, are folid, fmooth, white, elastic subtlances, between the hardness of a bone and that of a ligament, (fee ligament below) covered with a membrane called perichondrium, because it covers a cartilage, which is akin to the periosteum of the bones; they serve to make the bones, whose extremities or ends they cover, move freely in the joints: they limit the growth of bones, as to their length, by hindering the bony fibres from fprouting out; and, therefore, when the cartilages in the joints are eroded, an immobility is there formed, called anchylofis, or stiff joint, by the elongation and coalition of the fibres of the bones that are articulated together: fometimes they ferve as ligaments to join the bones together, and fometimes they do the office of bones to greater advantage than these would do; as the cartilages of the ribs, which, by their elasticity chiefly contribute towards expiration; the cartilages that make out brims of cavities, &c.

LIGAMENTS are white, tough, flexible bodies, thicker and firmer than membranes, and not so hard or solid as cartilages, without cavity; difficultly stretched and with little elasticity; they serve to connect parts together, and keep the part to which they are fixed in a proper situation, as appears remarkably in the joints or articulations; they are made up of sibrous layers or

strata; the largest and strongest of which run lengthwise.

MUSCLE,—This is the name of the immediate organical infirument of motion in the animal body, whether voluntary or involuntary; involuntary; it is called organical, because mere elasticity is

the immediate cause of some motions, as in expiration*.

The general characteristic of a muscle is, to consist of sleshy sibres which, when acting, contract themselves, and become shorter; this contraction, according to different circumstances of the muscle, and the parts to which it is fastened, produces different effects, and different motions.

If one end of a muscle is tied to a fixed part, and the other to a moveable one, when it acts, its fibres contracting will pull

the moveable part to that which is fixed.

If both the parts, to which the extremities of a muscle are attached, be moveable, by its action, they will be both drawn towards each other.

If the muscle be hollow, and contain a fluid, when it contracts, it will press upon, and endeavour to expel its contents; such a muscle as the heart, and in some measure the stomach, and uri-

nary bladder.

If the fibres of a muscle return upon themselves, in the form of a ring, when they contract, they will diminish the area within that circumference, making the circle narrower. Such muscles are employed to shut cavities, and are called sphinsters, because they have the power of closing cavities and restraining the exit of

any thing they contain.

TENDONS.—These are continuations of sleshy, muscular sibres; each tendon being divisible into as many fibres, or rather bundles of sibres, as the muscle itself is to which it belongs; but the tendinous sibres are more compacted and smaller, drier and harder, than the sleshy sibres; they are not capable of contraction, but serve like ropes to pull, when the sleshy sibres act, for the commodiousness and sirmness of insertion, and for the direction of motion.

NERVES.—These are soft white cords, proceeding either from the brain or spinal marrow, and running to every minute part of the body, and are the immediate instruments of sensation, and indispensably necessary for the continuance of muscular motion. They are supposed by many to contain a very subtile sluid, but appear without any cavity discernible even by the finest microscope.

VESSELS in the machine mean the animal tubes or canals through

^{*} The arteries have been supposed by some to contract themselves after distension by this elastic power; though they may in some degree, yet not totally, for they certainly, and I believe it is generally allowed, act by the contractile power of their muscular coat, as may be instanced in blushing—and their sudden increase of action from other local irritating causes, and some nervous affections.

through which fluids or juices move; the least imaginable vessel is made of the least membrane, rolled up in the form of a hollow cylinder, or part of a cone. The vessels, as their coats must be thicker, are composed of thicker membranes, upon which smaller vessels run.

Thefe are divided into ARTERIES, VEINS, ABSORBENTS, SE-

CRETORY veffels, and EXCRETORY ducts.

ARTERY.—This is the name of that kind of veffel which, arifing originally from the heart, contains a fluid whose motion is directed from thence towards the extremities and surface of the body. The larger and easily visible arteries contain red blood, are of a conical figure—flow, tapering from the heart forwards, and ramifying variously; in living animals they beat, or have what is called a pulse, answering to the motion of the heart; their coats look whitish, and are pretty thick and strong.

VEINS.—These contain a fluid whose motion is from the extremities or surface of the body towards the heart; their coats are thinner and more transparent than those of the arteries, and, therefore, they appear of a bluish, livid colour, the blood shining through them. In many places they have valves within them,

which open towards the heart, and thut the contrary way.

ABSORBENT VESSELS.—So called, because ricey absorb or take up fluids, and are divided into LYMPHATICS and LACTEALS, from the particular liquids they convey to other parts—they are similar, only have different origins, and calculated for different purposes, from whence they take their names, the former convey the lymph or aqueous fluids, the latter the milky juice, formed from the aliment in the intestines called chyle; the lymphatics are the general absorbents, and carry the juices to what is called the receptaculum chyli, thoracic duct, and left subclavian vein; the lacteals to the receptaculum chyli, or receptacle of the chyle.

The lymphatics and lacteals are very fine vessels; the former of which arise from the surface of the body, and all cavities or cells of the cellular membrane; the surface of the intestines, of the urine and gall bladders, of the ventricles of the brain, and of all other parts, and carry a pelucid liquor towards the receptaculum chyli, and the thoracic duct, in which, like the lacteals,

do they all terminate.

SECRETORY VESSELS.—These are all those tubuli or minute tubes, in the different organs, which are adapted for the purposes of secretion, presumed to separate and strain off the different humours from the general mass of sluids.

EXCRETORY VESSELS are those tubes or ducts which also belong to the different organs of sensation; whose office is to

carry off the humours that are separated, and either convey them to their appropriated receptacles, where some of them are depo-

fited, or discharge them out of the body.

GLAND denotes in general an organical texture, of a circumfcribed figure, framed so as to separate from the blood, a liquid, different from, and unlike the blood; of these are various kinds, some more simple, others more complex or compounded, and are called by the common people, kernel.

MEMBRANE.—This is a web or rather a lamina, or flough formed of a very thin substance, appearing like a bladder, whose thickness bears a very small proportion to its breadth and length: Most, if not all the membranes, we see in the animal body, are

composed of, and resolvable into thinner ones.

FIBRE is a small thread or filament, without a cavity, at least without one visible; whose breadth and thickness bears a very small proportion to its length; the least fibre of all is too minute to be perceived by our senses, however affisted. The sibres we can perceive, are no other than so many bundles of smaller ones

tied together.

Now these are the different solids of the human machine simply considered, and being differently disposed and united, by means of the cellular membrane, of which we shall soon speak, form the human body. This is divided into the LIVING SOLIDS, called folida viva, and into the INERT SOLIDS, called folida inertia, which constitute the hard parts, and help to complete the cellular system.

These are again divided by physiologists, or those who treat of the human body and teach the uses of its various parts, into three systems. The VASCULAR SYSTEM—the NERVOUS SYS-

TEM-and the CELLULAR SYSTEM.

The FIRST of these has the heart for its center; that is to say, all the tubes or canals which are comprehended in this division, either carry shaids out from the heart, or return and convey them to it, and comprehend every species of artery, vein, sinus, duct, and absorbent vessel, and may be distinguished into circulatory vessels, excretory vessels and absorbents; vessels, through which the blood circulates, by which particular shuids are separated from it, by which these last are carried from the place where separated, and by which shuids are taken up, and carried into the machine.

The CIRCULATORY VESSELS include all the arteries, which fpringing from the aorta or large artery of the heart, and that called pulmonary, supplying the lungs, carry out the general mass of blood, and all the veins, which being resected back,

and uniting at the two great finuses of the heart, return it, and thus maintain perpetual circulation.

The feeretory, excretory veffels, and abforbents, we have before

explained.

The SECOND or NERVOUS SYSTEM, has the brain as its basis, from whence issue different portions called medulla oblongata, spinalis, and nerves. Some assirm that there are two sets of nerves—the one adapted principally for the purpose of perception and sensation, bestowed on the several organs of sense, internal and external; while the other is blended with the muscular sibres, because it is observable in certain diseases, that the muscular strength shall be totally exhausted, and yet the powers of perception and sensation remain entire; and on the other hand that the muscles shall sometimes exert prodigious strength, while the senses are all locked up, hence the authority on which is sounded the distinction.

But we must observe, that though all animal motion seems to be derived from the nervous system, and although the heart, like every other muscle, can ast no longer than the communication through the nerves which are bestowed on it, remains free; yet there is a necessity for distinguishing between the vascular and nervous systems; because it will appear, when we come to inquire into the nature of diseases, that there may be evident disorder in the one, while little or none shall appear in the other; and this consideration will greatly influence us in the directions necessary to be given for procuring relief. These form the live

ing folids.

The INERT SOLIDS, not only conflitute fuch parts of the body as have neither nerves nor veffels; viz. the cuticle and its continuations; the nails; the hair; great share of the substance of bones; cartilages; ligaments; tendons and their membranes: but these inert folids form the connecting medium every where between the living folids, binding together every minute veffel and nervous filament; and there are innumerable nerves and vessels in all parts of the body, except those above mentioned, which no eye can trace; yet, if we reason from analogy, and fay, that the fmallest branches and filaments are like the visible trunks and cords, then the transverse section of these must be circular; and consequently, when they come to be interwoven or laid together, they must universally leave intermediate pores, and minute cavities; hence we may understand, that though there may be some parts of the body, which have neither nerves nor veffels, i. e. no living folids, yet there is no place in the whole fabric to which the cellular fystem does not extend, and where there is not some mixture of inert folids; besides uniting and binding together the different species of vessels, which either rise from or terminate at the heart; and all the nervous cords or filaments, which spring from the brain or spinal marrow, however variously they may be combined, disposed, or interwoven; and this sibrous and laminated connecting substance is not endowed, like the living solids, with either sense of seeling or

power of motion.

That the CELLULAR SYSTEM extends itself universally throughout the whole frame, and has a general and free communication, feems fully proved by some particular diseases, such as universal dropsy, called anasarca; where water distuses itself through the whole body; or emphysema, where air occupies the same space, passing from pore to pore, and cell to cell; for this membrane consists of a number of little cells, hence its name, which in many parts communicate with each other.

In the natural and healthy state, the cavities of the cellular fystem, are either filled with a thin fine sluid called lymph, or with oil—hence it is distinguished into two parts, the lymphatic

and adipofe, according to the fubfiances it contains.

The pores, or minute cavities of the lymphatic part, are always to be understood as interposed between every nervous sibril; whereas the adipose cells are not so universally extended, the fat or animal oil being always lodged in distinct bags or vesicles, else, was it suffered to dissufe itself as freely through the cellular system at large, it would be equally distressing and fatal with the spreading of water in an universal dropsy, or of elastic air in an emphysema.

CHAP. II.

Of the BRAIN, and the other more complex Parts of the Machine.

AVING now shewn the solid principles, and the systems of which the human body, aggregately considered, consists, we shall take a view of some parts which are formed out of these, with their sluids and uses, and give such accounts as may be requisite for the proper information of our readers, to enable them to discover what parts are affected in particular diseases, and distinguish their nature. We therefore begin with the BRAIN, which is a soft pulpy substance, surrounded by two membranes, one called dura, the other the pia mater—and has also a third called arachnoid, from its sineness, similar to a spider's web—the chief peculiar—

peculiarities to be taken notice of for our purposes are the SI-NUSES, which are nothing more than large veins or receptacles for blood, and the VENTRICLES. Like other parts of the body it has a variety of arterial branches coming from the heart, which are diffused through its substance, and on the membranes -from this is derived the whole nerves of the human machine, as the spinal marrow is no more than a continuation of the brain through the vertebræ of the back-and this is confidered the fource of all perception, fensation, and support of muscular motion .- It is not confidered in itself very fenfible, but can transmit most acute sensations to every part of the body by means of the nerves, when in a state of health—and most violent ones when diseased; there is not the smallest portion of the living solids but is materially connected with it-fo that it not only gives frong impressions to, but feels strong impression from the smallest portions when affected; and it may be confidered the fountain of all nervous incitability, by which all the parts dependent upon the nerves are put into motion, or continued capable of persevering in their action.

And here, as we shall often have occasion to speak of NER-VOUS INCITABILITY, and MUSCULAR IRRITABILITY, two powers to which we allow the existence of the machine, in a living state, and the action of all its moving solids with respect to their continuance, are entirely owing, it will be proper to describe what we mean by these two terms; because they certainly do in some degree exist independent of each other, not-withstanding their intimate union, and in general conjunct action—and also, as by this knowledge, we shall in some cases be able to discover, how from particular desect in these two powers, separately attended to, diseases put on different appearances—and are to be prevented, alleviated, or cured by our applications made to them distinctively as well as unitedly.

By INCITABILITY we mean that power in the brain and nervous fyslem, which may be put into action by mental affection, as well as local irritation, and which produces those appear-

ances we call fympathetic.

By IRRITABILITY we mean that power which may be put into action by material stimulus locally exerted—yet is obedient to the insuence of the nerves in general—and cannot, in the living machine, exist for any considerable time without this union.

To elucidate this, we shall observe that many will be thrown into convulsions by uneasiness of mind---we also know that the same complaint will be occasioned by severe irritation on some part or parts of the machine; or that parts themselves only will,

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from this fource, experience such effects---as in cramps. Now as we are totally ignorant how the mind acts upon the brain, and nervous system---how these act upon the muscular sibres---nor can we conceive how immateriality, which we take the thinking faculty to be, can act upon materiality, we can by no means make use of a term which points out specifically the action of these causes productive of morbid effects.

In order then either to prevent, alleviate, or cure the complaint from thence arising, we prescribe such things as may amuse the mind, and keep it free from those painful reslections--- and put the body into such a state as to render it less susceptible of im-

preffions from this fource.

On the other hand, we advert to the part or parts affected, and by our applications locally directed endeavour to remove the irritative cause in order to promote a cure----and with intent to prevent a return, do such things as to render the part or parts incapable of being affected by the cause, or put under such circumstances as to render the accession of that cause impracticable---hence we think the discrimination between the two terms absolutely necessary---as we shall in advising remedies always pay the strictest

attention to constitutional peculiarities.

The LUNGS are fituated in the cheft, and there divided into two large portions called LOBES, the one on the right, and the other on the left fide, which are separated from one another by a transverse membrane called mediastinum --- dividing the chest into two equal feparate cavities, that have no communication with one another: but the left lobe of the lungs is confiderably left than the right, because the heart with its membrane, called pel ricardium, from its furrounding the heart, with the great veffels that open into it, are contained in the left division .--- The lungs, befides their external membrane, and cellular texture of which they are composed, are a congeries of air vessels from the windpipe, which is a firm tube, made up of cartilaginous or griftly rings, joined together by mulcular fibres --- thefe rings backwards are incomplete; this defcends into the breaft almost to the basis of the heart, and there divides into two great branches, the one right, and the other left; which again are divided and fubdivided into leffer and leffer ramifications --- and fo diffributed through all the fubstance of the lungs, terminating at length in small membranous, dilatable cells, or vehicles --- as well as thefe, there are veffels which carry blood, and juices derived from the blood; and these two kind of canals are so uniformly dispersed through the lungs, that in every physical point there are branches all over, befides these they are supplied with nerves and absorbents. Various are the uses of this organ.

The most important is that of respiration, by which a trajection of blood is effected through their fubflance, and circulation completed, in which life confifts; by comminuting, condenfing, and rounding its particles, and thereby adapting them to flow through the canals of different fizes in the body; creating redness in its globules -- besides it has several uses which are of the greatest consequence to the animal, for by this means the abdominal vifcera are with a continuance alternately preffed upon. and freed from that compression; by which means concoction in the stomach and intestines is promoted; and the circulation through the lystem of the vena portarum, or large vein of the liver, which otherwise would be too fluggish, is urged on. The fæces and urine are expelled by its efforts; smelling is performed by inspiring, or snuffing up air; the fætus is excluded by its affiftance; and fuction, fo necessary for the preservation of the new-born animal, is performed, and without it there could be no fuch thing as voice or speech brought about. Belides, the lungs are confidered as the recipient of animal heat, that is, the quantity of atmospheric air which ruthes into the lungs at every inspiration being loaded with those particles creating heat, they are separated from the air and pass into the blood, and by their evolution through the course of circulation form an universal ftimulus to the vascular system -- and at the same time they perform the office of excretion, throwing out fuch matters which have become useless, and would be hurtful if continued in the habit.

In the middle of the chest between the two lobes of the lungs, rather inclining in its position to the left side, lies the HEART. It is a strong hollow muscle, having two cavities, separated by a septum or division, which are called ventricles, out of which issue the two large arteries of the human machine---one called pulmonary artery, because it serves the lungs; the other aorta, or large artery of the body; near the mouths of these two ventricles are two other hollow muscular substances, from their similitude to dogs ears, called auriculæ, into which the vessels called vena cava descendens, and ascendens, and pulmonary veins open---the two former into the right, the latter into the lest. It is also enveloped with a membrane from its situation, surrounding the heart, called pericardium, by which, and the large vessels, it is kept in a fixed position, within this membrane there is a small portion of a serous sluid.

As we have confidered the brain to be the fource of all incitability, so do we the heart one at least, and that the principal fource of irritability, whose chief office is to promote the circulation of the blood, an account of which may not in this place be improper.

But

But before we enter on that subject, we must observe, that all the arteries of the machine ramify from the aorta, as branches of a tree from its trunk, dividing themselves into minute ramifications, in which there are no valves, except at the origin; whilst the veins must be looked upon as branches forming a large trunk, in which there are valves inserted, which open to the heart. Now in the former of these vessels there is required no such contrivance, because the blood, having a quick progressive motion from the contractile power of the heart and arteries, has a sufficient force impelling it from behind, which prevents its retrocession, whilst, on the other hand the slow motion of the blood in the veins and their weaker contractile power, unaffished with a force adequate to that of the heart, have great need of such an invention to prevent its regurgitation, and secure its return to the heart.

Now for a moment let us suppose the heart full of blood, that is, the ventricles have ceased to beat, and that it is put into motion by fome cause, what will be the result with regard to the circulation? The leffer circulation through the lungs will be performed in the following manner; the blood will be propelled into the pulmonary artery from the right ventricle, pass through the lungs, and return to the left auricle by the pulmonary vein; in the fame manner in the greater circulation it will also be forced into the aorta, diffused through the rest of the machine, and return to the right auricle by the vena cava, passing through the different glands, in order for them to fecrete fuch fluids as they are deflined for; whilft, at the fame time, the capillary or hair like tubes, where there is no fuch glandular contrivance, will pass off the matter of perspiration, the auricles then being filled with blood will contract; eject their contents into each ventricle, and the fame routine be performed again as above defcribed.

The particular organs which we have now mentioned must be looked upon as the three most material ones for the support, and preservation of life, and the sources and instruments of incitability, and irritability, by which they perform their actions, and on which all the moving powers of the machine depend; but into the account we must also take the blood, which, with the lungs, we consider as the recipient and diffuser of that sluid, or those particles which animate nature, and supply an universal stimulus, which occasions the action of these sources and instruments of vital motion.

The BLOOD is a red homogeneous or apparently uniform fluid, as it circulates in the veffels, from whence all the other fluids of the human machine are secreted, or separated; but when out of the body, and left to itself, divisible into three diftinct substances--- ferum, gluten, and red globules, by a very simple process; though untouched, appearing only as two, called ferum and crassamentum, the latter floating in the former; but the crassamentum is of different degrees of simmess in different

Subjects.

The SERUM in an healthy state is almost colourless; at other times, it is yellowish, or perhaps of a greenish hue, while the top of the crassamentum has different degrees of simmess, and puts on different appearances with respect to colour, according to the age, sex, and state of health of the subject from whence it is taken. The serum of the blood, like the white of an egg, coagulates when highly rectified spirit of wine, called alchohol, or any of the mineral acids, are mixed with it, or when heated to about 160th degree of Farenheit's thermometer; but other-

wife it continues in a liquid state.

The CRASSAMENTUM is composed of a peculiar substance, which gives redness to the blood, and of, what physiologists term, coagulable lymph, from its coagulating spontaneously: This coagulable lymph may be separated from the red part in two ways; either by stirring the blood which is fresh drawn, with a whisk, when the lymph coagulating in a short time, will adhere to the twigs, and appear like a firm membrane of a whitish colour, composed of sibres interwoven with each other; or by placing a piece of crassamentum on a strainer, and pouring on water repeatedly, until the red particles being washed away shall leave only the whitish substance behind.

With regard to the red globules, it is not perfectly agreed of what nature they are; but it is afferted that the red colour is owing to a mixture of some portion of ferruginous or irony matter; in confirmation of which it may be observed, that the blood always becomes florid after a course of medicines of that nature; but whether it arises chiefly from the addition of ferruginous matter, or owing to the increased motion which these medicines always produce, will admit of some dispute, for it is always sound that the blood grows more red, in proportion to the action and the strength of the vessels, and these medicines are allowed

to produce fuch effects.

The proportion of the red part is small in respect to the other constituent parts, for one grain weight of this colouring matter, will tinge, in a perceptible degrée, a thousand of pure water.

Now as the blood in its healthful state is a tenacious shuid, capable of receiving a greater portion of heating particles in proportion to its tenacity, as it passes through the lungs, so according

cording to its stronger or weaker tenacity, will it be capable of retaining more or less of these stimulating particles, thus from this cause, will it be more or less stimulant, and assist in producing different deviations in the constitution, besides it is from different causes liable to undergo many alterations; hence also will other differences be formed, of which we shall take notice in the succeeding pages.

Indeed we might give fome general practical ideas respecting this point; but as many peculiarities arise from the state of other organs in the machine, that are worthy of observation, and necessarily combined with those already pointed out; we must now beg leave to describe them also with their uses, but first we

shall fay something on-

The THORAX or BREAST. This is a large cavity, somewhat in the shape of a cone, reaching from the lower part of the neck to the abdomen or lower belly, from which it is divided by the diaphragm, or midriss. The bones which form this cavity are twelve vertebræ of the back behind, twelve ribs on each side, and the sternum or breast bone before. This cavity is considerably shorter before than behind, from the diaphragm slanting downwards, and backwards. The ribs which guard the greatest part of the cavity of the thorax, are all articulated with their respective vertebræ, in such a manner as to admit of a motion upwards and downwards; they are all, except the lowermost or twelfth rib, connected and articulated with the sternum, or breast bone; by the intervention of cartilages, or grissles, so as to admit of the same motion upwards and downwards.

From the structure of the ribs which are more or less arched, being convex outwardly, and concave inwardly towards the cavity of the thorax, it follows, that if the ribs are all moved upwards, round their articulation with the vertebræ, their arched middle parts must be pushed outwards and laterally, and the sternum, to which they are joined, outwards and forwards; and consequently, the cavity of the thorax will be widened and en-

larged.

But there is a fet of museles which perform this office, which are called intercostals, from their being situated between the ribs, and are both internal and external; they run obliquely from the edges of one rib to those of the ribs nearest each other, for the whole length of the ribs, and from the highest rib to the lowest: the sibres of the external have a direction contrary to that of the internal, by which contrivance their joint action becomes the more steady, and the ribs being pulled in the diagonal of these two directions, endeavour to pull the ribs nearer one another; drawing the inferior ribs nearer the superior, and thus

the cavity of the thorax is widened, that the lungs may expand

themselves in inspiration.

But there is another contrivance to promote this purpose; the DIAPHRAGM or MIDRIFF. This muscle, which divides the breast from the lower belly, arises from the breast bone before, from all the ribs on each fide, from the feventh to the twelfth; and behind from the last vertebræ of the thorax, and the first one of the two loins. Its fibres run fleshy from the circumference to the center fome way, and then become tendinous; the whole diaphragm flants, its anterior origins being remarkably higher than its posterior ones; it is not plain, but remarkably convex towards the thorax, and concave towards the abdomen; infomuch that its middle or center rifes always higher in the thorax than its highest origin at the sternum; when it acts, the fleshy fibres shortening, pulls the tendinous center towards their origin, that is, downwards, thereby rendering it plainer, and lefs convex, and fo lengthening the cavity of the thorax down; hence the enlargement of the breast is promoted two ways, by the intercoftal muscles raising the ribs, and making it wider, and the action of the diaphragm rendering it longer or deeper-and by these means the several uses above specified from the action of respiration, is promoted. See page 28.

Immediately under the diaphragm lies the LIVER. It is of an irregular mape-its right part fills almost all, what is called the right hypochondre, or fide under the ribs below the diaphragm; in an adult body, when found, reaching commonly no lower than the short ribs. In the fœtus it is bigger, in proportion to the rest of the body, in all its dimensions-its middle part lies in the region over the stomach, called epigastrium; and its left in the upper part of the left hypochondre, not reaching fo far down as the right; fome of its exterior parts are finooth and convex, humouring the concavity of the diaphragm; its under part is concave on the right fide, answering to the gut called the colon before, and the right kidney behind; its middle part, in which the gall bladder, called the vefica fellis is placed, lies over the gut, called duodenum, which touches the gall bladder; its left part covers the stomach—it is thick in the middle, and upper substance, towards its fides it grows slenderer, at length terminating in a thin edge; by a furrow in the interior and concave part which receives the umbilical vein; or that of the navel in the fœtus, on its anterior part; and by another anfwering to that backwards reaching to the posterior limits of the liver, which receives the venous duct, both which canals are pervious vessels in the fœtus, but in the grown animal degenerate into ligaments, the liver is divided into two unequal parts call-

ed lobes; the right being much larger than the left; there is befides, a fmall lobe in its posterior concave part, commonly called the lobule of Spigelius; there is likewife a transverse fossa, or furrow, running along the middle of its concave, and under part. in some measure separating its anterior and larger from its posterior and smaller part; it is attached to the diaphragm, and its weight is in some measure supported by ligaments from that muscle, which are productions from the membrane which lines the infide of the lower belly called peritonaum, where it lines its concave furface, and is united by other fuch productions. with the neighbouring parts: it is furnished with arteries from ramifications of the aorta, called coliac, mammary, phrenic, renal, and capfular-but it is furnished with veins of two kindstotally differing from each other, which cannot truly be faid of any other part of the body: to wit, the vena portarum, and its branches distributed through the substance of the liver, which perform the office of arteries, carrying blood into it; and the other veins, which carry blood out of it, emptying themselves

into the vena cava, like the reft, all over the body.

As the rest of the arteries and veins may be compared to the trunk of a tree with its branches, fo may the vena portæ and its different ramification, be compared to the root, trunk, and branches-for it is formed by a conflux of all the veins, which return the blood from the stomach, omentum, spleen, pancreas, intestines, and mesentery; and answer to the coeliac, and mesenteric, both fuperior and inferior, arteries .- It is worthy to be observed, that all this venous fystem, which by its union constitutes the vena portarum is unfurnished, unlike the other veins of the body, with valves; fo that from its trunk it may be injected backwards to the minutest origins of small veins, in all the parts just now mentioned. The trunk of the vena portarum, thus formed, enters the liver between two eminences in the little lobe, called by the ancients, portæ-that is, ridges forming a little channel or ilreight between them: as foon as it is formed into a trunk it is found to have got stronger membranes or walls than other veins, and even tougher than the aorta or large artery of the body itself. This new and extraordinary strength of the coats of the branches of the vena portarum, they carry with them throughout all the substance of the liver; and they are distributed from trunks to branches, fmaller and fmaller, in the fame manner as arteries are in the other viscera.

Thus is blood brought into the liver by arteries, called hepatic, of the common fort; and belides by the vena portarum, furnished with strong coats, and performing the office of an artery, the only instance of that kind in the whole body. The ultimate

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fmall capillary branches, both of the hepatic arteries, and vena portarum, terminate in minute venous twigs, which arifing all over the substance of the liver, and forming larger and larger branches by uniting together, at length open by several large mouths into the vena cava about the posterior, or gibbous part of the liver.

The liver is supplied with nerves from the intercostal, and par vagum so called ;—they are but small in proportion to its bulk,

and therefore it is not liable to violent pains.

The great use of the liver is to separate bile, for many good purposes in the animal economy; and as it is now and then wanted more at some times, than at others, there is in the liver a receptacle for part of this fluid, called the GALL-BLADDER, which is a pretty large hollow veffel, nearly the shape of an oblong pear-fituated in a fovea or furrow, in the anterior concave part of the right lobe of the liver, reaching from before backwards; attached to the liver in different places by a cellular texture, covered over in its under part, by a portion of the membrane of the liver, which reaching beyond it keeps it fast in its fituation. Under this, all over its furface, is a cellular texture -next to that, a thin muscular coat, confishing of pretty confpicuous, longitudinal, oblique, and circular fibres; under that a fecond cellular-then a nervous; and innermost of all a villous coat, fimilar to what is found in the stomach and intestines. There are likewise, especially in its smaller part or neck, pores, which yield a mucous juice, to defend it against the acrimony of the bile: from the same part is produced its duct, which stretching towards the left is inserted into one called the bepatic duet. which arises from the repeated union, and conflux of the biliary ducts all over the liver; the union of these two ducts together forms the duct, called the ductus communis cholidochus, which penetrates into the duodenum, or first of the small guts, just below the stomach. Thus we find the bile separated by the pori biliarii of the liver, passes into the hepatic duct, part of which is constantly pouring into the duodenum, and part into the gallbladder, whose use is to receive the bile, there to retain it, until it be squeezed back again by pressure of the distended stomach, and action of the diaphragm, through the ductus communis into the duodenum; -by flaying there, the bile is rendered thicker, fome of its aqueous parts being reforbed by the inhaling veffels of its villous coat, and therefore stronger, and of a more saturated yellow; it likewife becomes more sharp, bitter, and rancid, by the heat of the contiguous and circumjacent parts; while the stomach is empty the gall-bladder is at liberty to be distended and filled, and therefore becomes fuller after long fafting; and

the fuller it is, the less compression of the stomach is required to squeeze the bile out of it—so that the more we are prompted to eat, and stuff the stomach by violent hunger, the greater quantity of bile will be poured into the duodenum, by the swelling of the stomach during digestion, to promote so much more effectually the coction of the aliments; and the cystic bile will be the sharper, and stronger, by having remained so much the longer in the gall-bladder.

So that we find the duodenum receives two forts of bile flowing into it from the fame canal, viz. the hepatic fresh secreted from the liver, which never has been in the gall-bladder, but

goes straight on into the intestines, and the cystic also.

Both biles are of the same natures and properties, differing only in degree, insomuch as many species of animals have no gall-bladder, and therefore are only surnished with hepatic bile, as amongst quadrupeds, the elephant, borse, as, and deer; amongst birds, the offrich, whose digestion is so strong, the stork, and the

pigeon-not to mention fome fishes.

The BILE is somewhat viscid; coagulable by heat and alchohol; of a saturated yellow colour, inclining to green, extremely bitter; the sharpest, and most slimulating of all the circulating humours of the body, neither acid nor alkali when fresh, but strongly inclining to, and quickly susceptible of, putrefaction; and promoting that disposition in any substances with which it is mixed, if they are capable of it; it mixes readily with water, it slames not in the fire, unless it be dried, and then it burns almost all away; it is a powerful penetrating soap in every respect; it dissolves all gums and resps, being rubbed with them.

By these properties, when poured upon the alimentary mash in the duodenum, it must essect, first, a more intimate dissolution and mixture of the heterogeneous parts together, as it is readily miscible with water, and renders oil and oily substances so; secondly, though it is not actually an alkali, yet it nearly approaches towards it; and must diminish the acescent disposition of the chyle, of which we shall speak hereafter, and render it more similar to animal nature, which is alcalescent; and lastly, by its stimulating power, as it is the most acrimonious of all the animal sluids, it, no doubt, helps to excite the peristaltic motion of the intestines, and thereby promote concostion; and, as like aloes, it is a purgative, which it resembles not a little, it assists in the expulsion of the saces; so true is it what Lord Eacon says, that the bile is the incentive and stimulus of many functions of the body."

The PANCREAS, or SWEET-BREAD, so called, is a long, whitish, tender, and friable glandular mass, situated behind the

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fromach and spleen, under the liver. Beginning at the spleen on the left fide, it stretches transversely across the vertebræ, and with its other extremity, is connected with the duodenum. In the human adult, it is about feven or eight inches long, and one or more thick; its end at the spleen is smallest, and it grows gradually broader, at it approaches to the duodenum, where it terminates: it hath arteries from the coeliac; its veins run into the splenic vein, which opens into the vena portarum; its nerves come from the par vagnum, and as they are but small, it hath, like the liver, but small sensation: its structure confists of small round acini or glandular shoots, connected together with much cellular texture; from each of these, there is a small duct sent out towards the middle; all these ducts open into the principal duct, which runs along its axis all its length, and opens into the duodenum, five or fix inches from the pylorus, or lower orifice of the stomach, at the same place with the biliary duct.

As the structure of the pancreas is the same with the salivary glands, so its juice perfectly resembles the saliva in every property—and therefore may be presumed to have the same use—to dilate, open, and dissolve the alimentary mash, and render the chyle, to be made out of it, more similar to animal nature; as it is considerably larger than all the salivary glands put together, and situated in a warmer place, its juice must far exceed the saliva in quantity. It is propelled into the intestine by the common impetus and course of circulation, assisted by the pressure of the adjacent parts upon it in breathing: It is poured into the gut at the same place with the biliary duct, that it may be immediately mixed with, in order to temper and dilute, the bile, which is

both thicker and sharper than itself.

The OMENTUM, or CAWL, is a broad membrane, thin and transparent, tender, and easily torn, arising from the anterior and inferior border of the stomach, and falling down commonly as low as the navel, sometimes much lower; then doubling backwards and upwards, is connected with the intestine called the colon, under the stomach, thus forming an empty bag. Besides, its principal connection with the stomach and colon, it is likewise attached to the duodenum, to the spleen, pancreas, and mesentery; it lies immediately under the peritoneum forwards, being a production of its cellular part, and covers part of the stomach, and the greatest part of the anterior surface of the intestines.

It is every where a double membrane—but every portion of the thin membrane, by itfelf, may be divided into two thinner membranes or floughs, which are joined together by a thin cellular texture, in the cells of which fat is deposited: the secretion here is performed in the most simple manner, their being no other apparatus besides arteries, veins, and pinguidinous ducts, leading to the cells, or vesicles. The fat is distributed in the omentum very unequally, being in some places thin and transparent, in others an inch thick in fat; in corpulent persons it contains a vast quantity of fat; it hath its arteries from the coliac; its veins terminate chiefly in the splenic branch, and all of them ultimately in the vena portarum.

The uses of the omentum are, first, to interpose between the peritoneum and the intestines, and part of the stomach—that all three parts may be preserved warm, moist, and slippery, and hindered from growing together: and secondly, to surnish oily mat-

ter for the bile.

The SPLEEN is fituated in the left hypochondre, that is, under the cartilages of the left fhort ribs; it is connected with the colon, flomach, left kidney, and by its upper part with the diaphragm; its fituation is changed by the fulness or emptiness of the flomach; it follows the motion of the diaphragm, and is affected by the inflation or fubfidence of the colon. In general it is placed upwards, and backwards from about the middle of the short ribs on the left fide; in its natural and found state, it is about fix or feven inches long, about three in breadth, and one in thickness, of an irregular and fomewhat oval figure, and of a dark livid colour; it receives arteries from the coliac, these entering its substance, are divided into innumerable branches, and by their evanescent extremities terminate in minute veins, forming, by their union, the splenic vein, which flows into the vena portarum. The velfels of the spleen are very large in proportion to its bulk, and yet it hath no excretory canal but its vein; its nerves are small and few.

As the substance of the spleen is entirely vascular, with a tender cellular texture to support the vessels and keep them together; its chief use has been considered to consist in dividing and attenuating the blood that runs into and slows through it; and from its situation, as it is much agitated, this also assists in the circulation and comminution of the blood through it, and thereby rendering it sit to temper the sluggish mass sent from the omentum and mesentery into the vena portarum, and expedite the secretion of bile in the liver.

As we confider the ŒSOPHAGUS and STOMACH continuations of the fame tube, we shall proceed to describe them together, and afterwards make some observations on the intestines.

The ŒSOPHAGUS, or GULLET, begins at, or is continued with the PHARYNX or THROAT, runs down along the posterior part of the thorax, behind the wind-pipe, and most commonly somewhat to its left, passes through the diaphragm, and a short

way under it opens into the stomach, into which it conveys the aliments; it is made up of several membranes or coats: the external one is cellular—next to that is the muscular coat, consisting of two pretty strong plains of sibres, the exterior of which are nearly longitudinal, the anterior nearly circular. When the former act, they shorten and widen the tube—thus sitting it to receive aliment; when the latter exert themselves, they render it narrower and longer, and propel the aliment onwards: this alternate action, begun at the origin of the canal, and continued downwards successively through its different portions, one after another, determines the rout of the aliment into the stomach.

Its innermost coat, called nervous, is tough and strong, sit to resist the hardness and roughness of what may be swallowed; it is lined with short villi, standing up like velvet, somewhat in the manner of those of the stomach and intestines, of which we shall presently speak. There are likewise numerous secretory ducts opening into it, which yield a mucous liquid, by which it is moistened and lubricated, in order to facilitate the passage of the

aliment through its cavity.

The STOMACH, or VENTRICLE, is fituated in the abdomen, or lower belly, immediately under the liver, which covers a great part of it above, and laterally; it is placed transversely, in the main, from right to left, but somewhat obliquely, so that its left or upper orifice, called cardia, which is continued to the complete gus, lies more towards the vetebræ; and the right or lower, called pylorus, which opens into the intestine duodenum, more anterior. In figure it resembles a bag-pipe; its thickest part being its left extremity, at the implantation of the copphagus, from which it tapers to the pylorus. The CARTILAGO ENSIFORMIS, or lower part of the breast bone, answers nearly to its middle: the spleen lies contiguous to its lower part, on the left, and the pancreas behind its bottom.

The structure of the stomach is in general the same as the cesophagus, of which it may be considered a dilatation. Its most external membrane is a continuation of the peritoneum; its next is cellular, in which its great branches of blood vessels and nerves run; in it there are likewise conglobate glands and lymphatic vessels. Under this lies the muscular coat—the exterior layer is a continuation of the longitudinal sibres of the cesophagus, which open and disperse themselves over the stomach—and as the stomach is by much the larger of the two, and of an irregular sigure, they must of course be thinner, and less numerous in some places than others. They run mostly along the length of the stomach, and terminate at the pylorus; they seem to shorten the stomach, though but in a feeble manner, and

widen its middle. The other stratum or layer, answering to the circular fibres of the cesophagus, is by much the stronger of the two; its fibres run in a general way round the stomach, at right angles with its axis, though with confiderable and intricate deviations: they feem like the analogous stratum in the cofophagus, to lengthen the tube they encircle, and contract its cavity, a remarkable plain of this fame stratum runs from the left orifice to the right by the shortest way, viz. along the upper and leffer curvature of the flomach; and appears to counteract its other fibres, by drawing the two orifices towards each other. And it is observed, that at the entry of the cesophagus into the stomach, the circular fibres are remarkably thick and strong, which therefore may serve, in some measure, as a iphincter to it, to shuts its cavity there; but, upon the whole, the exact course of the muscular fibres of the stomach is so extremely difficult to be traced and defcribed, that hardly any two anatomists, unless they copy from one another, agree in their account of them. It is fufficient to conceive them to be fo framed and distributed, as to enable the stomach to press upon its contents every way, and gradually to expel them .- Next to, and immediately under the muscular coat, is another cellular texture, more conspicuous than the exterior one, in which pretty large trunks of blood veffels and nerves run, after having penetrated through the muscular coat. Under it lies that called nervous which is a firm, tough, white, and pretty thick membrane, conflituting the principal and most peculiar coat of the slomach. The fixth in number is another cellular web, much thinner and more fubtile than the two former-made up of shorter threads and laminæ—The innermost of all is the villous coat, so called, because it hath villi, or pile like that of velvet, flanding out from it; these villi are small membranous productions, or theaths containing minute tubuli, both of the arterial and venous kind, opening into the cavity of the stomach. The arterial tubuli pour into the stomach a liquor much more subtile than blood, to be mixed with the aliments for the purpose of digestion-and when the stomach is empty, this liquor growing sharper concurs with the faliva in exciting the fenfe of hunger, as has been faid; the venous tubuli are absorbent, and resorb liquids from the stomach; the innermost or villous coat being larger than the rest, forms wrinkles here and there, more or less conspicuous, but at the pylorus there is a remarkable one; where a duplicature of the coat formed by this wrinkle all round the pylorus, and projecting into the entry of the duodenum, ferves, together with the circular fibres of the mufcular coat, to contract.

tract, and almost shut that orifice, and let only the thinner parts of the alimentary mash be expelled out of the stomach into the intestine very gradually, and in small quantities at once: over all the inside of the villous coat, there open excretory ducts of mucous glands, seated in the second cellular membrane, which furnish a subricating liquor, as in the copphagus, serving to defend the acutely sentient inside of the stomach from the acrimon by or otherwise hurtful qualities of what we may eat or drink.

The stomach is plentifully furnished with blood vessels; its arteries all come from the coeliac, and its veins all empty themfelves into the vena portarum: it is no less largely supplied with nerves, every branch of which arise from the par vagnum.

Now the use of this organ is for the digestion of our food, in order to promote the nourithment of the other parts of the body, as well as itself- and this it is supposed to promote by heat, moisture, agitation, and fermentation-all which, that it is capable of producing, it will be easy to conceive, when we confider its structure and situation-for we find it is almost covered with the liver, lies contiguous to the spleen and pancreas-is possessed of a mufcular coat-has large trunks of blood veffels running thro its substances-lies close under the diaphragm-and fluids profufely excreted into its cavity, and perpetually pressing down the cofophagus-belides its lying over the aorta, or great artery of the machine—and thus the texture of the aliment is broken, the juices they afford fet at liberty, mixed with the gastric juices, or those of the stomach, thrown into a state of fermentation, and changed into materials proper for forming nutritious fluids, as far as the first process extends -- which are farther perfected when they país into the intestines, whose structure is fimilar to that of the stomach--- by being mixed with bile, pancreatic, and intellinal fluids; converting them into a white liquor called chyle, which is abforbed by the lacteal veffels, and there in their passage through the lymphatic glands to the receptaculum chyli further mixed and diluted with lymph; from this receptaculum the chyle is carried into the vena cava, thrown with the blood into the right auricle of the heart, thence into the right ventricle, which ejects it into the lungs, by the pulmonary artery, in which organ it is further elaborated, thrown from thence into the left auricle and vetricle, and then into the round of the greater circulation, where it meets with fresh attrition; and thus, in a little time, converted into a perfectly nutritive fluid, which is applied to the particular parts for their support as wanted. But the stomach, besides being the instrument for performing the first process of digestion, is possessed of another material power, that of promoting fumpathic affections in the constitution. These are such affections as appear F .

in parts far distant from those, where the action of any substance causing such distant affections, are locally acting—as sweat induced by antimonials taken upon the stomach, and only acting immediately on that organ—vomiting produced by a stone stimulating the kidney, &c.—but of this however we shall speak more at large, when we come to treat particularly on this subject—and now proceed to describe the intestines, and their uses—which have been divided, and are six in number, three small, and three large, viz. DUODENUM, so called from being twelve singer breadths long;—JEJUNUM, from being commonly sound empty;—ILEUM, from being supported in part by the bones called

ilia-thefe form the three first, or fmall guts.

The DUODENUM is wider than the others—as it receives all the mal expelled out of the flomach; which cannot be faid of the other guts, some part thereof being resorbed by the way. but chiefly on account of its having, for a great part of its length, from its origin progressively, no external tough covering from the mesentery to limit its fize; it is likewise redder and more fle hy than the jejunum and ileum, its mulcular fibres being thicker and Bronger. About its middle it receives the duct from the pancreas and liver, called pancreatic and biliary, which paffing through its coat, obliquely open into it through one orifice; it makes feveral curvatures—the most considerable is that by which it afcends almost perpendicularly some way, soon after the two ducts open into its cavity, whereby the alimentary mash must needs be some what retarded in its passage through it; and the bile and pancreatic juice the more thoroughly mixed therewith, and with one another; in its beginning, its innermost coat is even, without wrinkles or furlows, fuch as are called valvulæ conniventes: but in its progress, and towards its terminations, it gets many fuch; which mult further retard the progress of its contents; it is supplied with arteries chiefly from the same trunk that supplies the stomach, viz. the coliac; some lacteals, though but few a ife from it

The JEJUNUM.—It is not easy to fix exactly the limits between the duodenum, nor ileum, and this gut: one way of distinguishing the jejonum from the ileum, and perhaps the best, is to call all that jejunum, whose circumvolutions are above the umbilious, or navel; and whose cavities are remarkably turnished with rogæ or valvulæ conniventes; this will make it about a third thorter than the ileum; it is narrower than the duodenum; its muscular fibres are thinner and weaker; it has some clusters of glands, called Peyer's, from their discoverer, and sends forth numerous lacteals.

The ILEUM makes its windings chiefly below the umbilious;

the lateral foldings are supported by the offa ilia, above the thigh bones; its structure is much the same with that of the jejunum, except that in it the valvulæ conniventes decrease gradually, both in number and size, till at length they disappear. It hath more of Peyer's glands than the two former, especially about its termination, and sends forth extremely numerous lasteal vessels, the jejunum and it surnishing almost the whole of these canals: it is considerably longer than the jejunum, and is continued to the first of the thick guts called colon. Both the jejunum and ileum are furnished with blood vessels from the mesenterica superior. These small guts are the instruments immediately employed in making the chyle; whose coats are pretty much the same with those of the stomach.

The thick or large guts are also three in number-the CÆ-

CUM, COLON, and RECTUM.

The ileum, the last of the small guts, terminating near the right kidney, opens into the colon; at its junction with the CÆ-CUM: this is a short wide sac about three inches long; its diameter about thrice as large as that of the small intestines; it is situated under the right kidney, and hid by the last convolution of the ileum, and has an appendix arising laterally from its bottom, called appendicula vermisormis, and is about the same length, but very slender, its diameter commonly not exceeding a quarter of an inch; its termination is shut, and it sluctuates loose.

The COLON from its origin makes a large turn upwards as far as the liver; then proceeds transversely to the left under the gall-bladder, which it touches under the bottom of the stomach, towards the spleen and lest kidney, to which it is sastened; from thence passing, it makes several turns, the whole of them pretty much in the sigure of a capital S inverted, then terminates in the rectum; so that it surrounds, in a manner, the whole abdomen, sometimes ascending, sometimes descending; hence it happens that one stool is often succeeded by a second: by this contrivance likewise the saces are longer kept, and hindered from being every now and then indecently voided.

The RECTUM or STRAIGHT GUT, fo called because its course, if the length of the body is regarded, is straight, though it is bent backwards and forwards, humouring the direction of the os sacrum and os coccygis, bones situated at the lower part of the back, begins where the last curvatures of the colon end,

and is terminated at the anus.

It is worthy to be observed, that there is a remarkable contrivance at the junction of the ileum with the colon and cæcnm, by which the contents of the small intestines are allowed a free passage into the thick ones, but small regress or retropulsion from F 2 this is called, valvuli Bauhini—Tulpii, or—Coli. Its effect in the animal economy is very falutary; for as the contents of the intestines begin to putrify, and become fætid in the cæcum, by their being retarded there, both upon account of its capaciousness, and the almost perpendicular ascent of the colon, which is continued from it, if their repulsion into the ileum was not effectually hindered, the chyle in the small guts would be tainted with putridity, and even excrementitious matter thrown up at the mouth in obstinate costiveness; whereas not so much as a fæcal halitus, or the subtilest effluvia, can get that way in a state of health, though stools should be wanting ten or twelve days together, as happens in a common way to many.

at the fame time lower than the implantation of the ileum, the contents must, in some measure, stanate there, especially as the colon from its origin mounts in a manner perpendicularly as far as the liver in the right hypochondre. By stagnating in so warm a place, their putridity increases there, and they acquire a secal odour, which is not observed in the contents of the small guts; they likewise become les shuid, and more consistent, by the re-

bibulous veins, ftill continuing.

The vermicular appendix of the cæcum, by the numerous glandular outlets in its cavity, ferves, as well as a receptacle for the meconium in the fætus, to lubricate the contents and membranes of the cæcum, into which it opens, as well as its own, in order to facilitate the propulsion of the fæcal matter, and prevent its adhesion to the coats of the cæcum and its own, and where it must stagnate longer than it had stagnated hitherto any where in the intestinal tract. This use likewise takes place in the born animal; and besides in obstinate costiveness, by affording more room or stowage for the congested fæces, it renders that compaint more easy to be borne, and less detrimental than it otherwise might be.

The cæcum and colon, besides having a stronger muscular coat than the small intestines, are surnished with three ligament-like bands, running length-ways on their outside, dividing their surface into three portions, nearly equal. Though they appear like ligaments externally, they are made up in their inner structure of true muscular sibres, and strengthen the longitudinal sibres of the muscular coat; as they are longer than the proper coats, they

keep them drawn up into fo ds or wrink'es.

Through these intestines is propelled and urged on the remainder of the alimentary mash, after having undergone the action of the fmall guts: it consists of the earthy part of the materials taken in for food—of the membranous, sibrous, cartilaginous, and bony parts, that could not be sufficiently broken, and comminuted by the stomach or intestines so as to be taken up by the lacteal, and other absorbing vessels; the recrements of the bile, and

mucus furnished by Peyer's glands, all mixed together.

The causes of its propulsion are the same as in the small guts. viz. the action of respiration, and the peristaltic motion of the intestines themselves; but its course is slower than in the small guts, upon the account of its thicker confishence, the ascent and windings of the colon, the delay it meets with from furrows within the tube, and the great stop from hard fæces, pent up in the rectum by the sphincter ani. The putridity is increased as it goes on; and as putrefaction generates air, the colon is commonly found distended with flatulency. The whole is more and more gradually exhausted and robbed of its most fluid parts; and as what putrid miasmata are absorbed by the mesocolic veins, are determined finally into the vena portarum, to contribute towards the rancidity and putrescent disposition of the bile, so that even here the fæces, which are upon the point of being expelled out of the body altogether, are rendered useful and made subservient to the perfection of what is left behind.

The RECTUM begins in the pelvis where the last curvatures of the colon end; its muscular coat is much stronger than in the other intestines; the ligament-like bands, which in the cæcum and colon are collected into three portions, are spread equally over its surface, that no part of it may be weaker than another, less it should give way in the effort of throwing out its contents. Into this intestine the fæcal matter, now consistent and shaped by the cylindrical cavity of the colon, especially in its last curvatures, where it is more uniform, and not so much distended by statulency, is received and accumulated therein, until, by its increased bulk, weight, and acrimony, it becomes troublesome, and would prove hurtful if long retained. Then it is expelled by the muscular powers furnished for that purpose—and strong powers there are, and admirably sitted to answer their end.

The INTESTINES are not left to move at random in the cavity of the abdomen, but artfully tied down by a membranous web, which prevents their circumvolutions from being entangled in each other—at the fame time allowing them a gentle but limited motion. That part of it, which is connected with the small intestines, is called mesentery; the other part sastened to the colon, meso-colon. The rectum has a particular membrane al-

lotted to itself for fixing it.

This membranous web, for the mesentery, and meso-colon

are one continued membrane, is a double production of the peritoneum, arising from the vertebræ of the loins; its two laminæ are joined together by a cellular texture, in which the lacteals, blood vessels, &c. run, and the mesenteric glands are placed: when this double membrane bath arrived at the intessines, its laminæ separate and quite surround them, thus surnishing their

external covering.

Upon a flight furvey of the uses produced by the mechanism of this part of the human machine, we cannot avoid being firuck with wonder at its apparent fimplicity, answering to many falutary purposes. If we trace the materials thrown into the stomach for our support through the intestinal tube, we must more and more admire the excellency of the divine workmanship; for as foon as we take our food it is received into a place, in all points calculated to render it fit for yielding its nutritious contents, by mixing with the falivary and gastric juices-having its texture broken by muscular action, not only of its own coats but the organs of respiration, and the quickly repeated shocks of the largest artery in the human machine, and from heat, increased from its fituation, foon thrown into the process of fermentation-by all which it is rendered fluxile, and passes, from the contrivance at the lower orifice of the stomach, slowly into the head of the first of the intestines-more capacious than its inferior part; it is there mixed with the bile, increased in its quantity in proportion only as it is wanted, by the very means of those things which require it, and pancreatic juice, calculated to convert the various portions into a nutritious fluid, by mixing the parts uniformly together, at the same time affording a stimulus to promote the propulfive force of the intestines, and confequently increase the action of those vessels implanted in the sides of them to convey it through the mesenteric glands, where it receives more liquid, thinner than itself, to increase its fluxility into the receptacle appropriated for this purpole, and from thence into the blood-the faculent, or thicker part, being at the fame time pushed forwards into the larger bowels, from whence there can happen no regurgitation of any, even of its finer parts, tho' delayed for fome time, in order that a portion of its alkalescent or flimulating materials may be carried through the vena portarum, into the liver, to increase the acrimony of the bile; and as here the fæces acquire a greater hardnels, confequently fland in need of a greater force to propel them forwards for their exit, the bowels in this place are poffeffed of greater strength, and require a stronger stimulus to excite them to more powerful action, which the putrelcent state of the fæces, acquired by delay, affords.

But besides the uses, herein specified, appropriated to the Homach and intellines, there is another very confiderable one beflowed on them, particularly the former, by which very material affections are diffused to almost every part of the machine, and from which all the fenfible parts of the body receive very peculiar and extraordinary advantages-I mean that of conveying action to different par's, and feeling the effects from thefe fympathetically and inftantaneously; -- for in many cases the stomach not only will experience perceptible effects locally of things received into its cavity, but communicate effect to different parts from that local action; nay, will produce them fometimes without the animal being fenfible of any action going forwards in that organ; and will itself be affected by some causes acting on other different parts, with the same unconsciousness of the locality of action, as well as fensible perception of such action-fo close an union is there between this organ, and the intestines, with various parts. the most distant as well as the more contiguous.

Opium, the active preparations of antimony, bark, and a number of those medicines called cordial and antispasmodic, will disfuse their effects to the machine in general, and some particular parts, from what they exercise on the stomach, particularly itself. Hence will opium produce sleep—take off pain—promote perspiration or sweat—stop evacuations—alleviate and conquer some convulsive or spasmodic affections.—Antimonials take off cuticular spasms, productive of sebrile affections, allay sebrile heat—promote insensible perspiration and sweat.—Bark increase the tone and strength of the systems—stop some evacuations—increase o-

thers—and give firmness to the muscular fibres.

Cordials invigorate the habit increase the circulatory powers of the constitution-subdue lowners-fainting-warm the habit

-- and produce discharges from the skin.

Musk, asasætida, camphor—take off several convulsion affections—and all these things are done by the stomach, distustively communicating effects to the various parts, whose office it is to perform their different operations, or to those where these mor-

bid effects may be manifested.

And it will also be affected by the sensations induced on different parts distant from intels. Spasmodic affections of the pores of the skin will produce sickness, nausea, vomiting—so will a stone in the kidney; violent blows on the head, or concessions on the brain, will occasion similar effects—and a variety of others might be adduced tending to prove the same points; but enough has been here advanced to prepare us for the fuller discussion, and better understanding of these consequential particulars, when we come to speak more fully on them, as they occur repeatedly in

the course of the subsequent sheets .- We must now avert to the

kidneys.

The KIDNEYS are two pretty folid glandular bodies, fituated in the posterior part of the cavity of the abdomen, on each side of the vertebræ of the loins, between the last false rib, and the osta iliaca or hip bones. The right kidney lies under the great lobe of the liver, the lest under the spleen, and therefore is higher; they are commonly about five inches long, about three broad, and one and a half thick; they are connected with the colon, duodenum, liver, and spleen, by the productions of the peritoneum. They are in shape not unlike a large bean, their circumference being convex on one side, and concave on the other—the concave side is turned towards the vertebræ, or back bone.

The kidneys are furrounded with a loofe cellular texture, in which there is much fat; this likewise invests the arteries and veins of the kidneys. The proper coat or membrane of the kidneys is double, being composed of two laminæ, or layers—betwixt which there is a very fine cellular texture; the external laminæ is very thin, and only furrounds the body of the kidney; the internal one penetrates every where by numerous elongations into the substance of the kidney, from which it cannot be separated without tearing. The substance of the kidneys is smooth, even, and uniform in adults—in young children divided in a man-

ner into feveral lobes and tubercles, or portions.

They are supplied with very large blood vessels---commonly called emulgents. The arteries arise from the great descending artery of the heart, nearly at right angles, one large trunk for each kidney; they run horizontally to the kidneys, and commonly without division---and having sent off branches to the external surface of the kidney, the chief trunk enters into its body at its concave part, and is distributed by an infinite number of small branches over all its substance. The veins running along with the arteries open in a large trunk from each kidney into the cava descendens, or large descending vein, near that part of the aorta where the arteries arise.

If the kidney is cut through its convex, towards its concave part, into two equal portions, there appears a three-fold fubiliance composing its body---the exterior part called cortical, round the whole circumference of the kidney, of a bright, whitish, grey colour;---a middle substance, called medullary, striated, or streaked, which terminates in the third, called papillary, as it ends in eleven or twelve papillæ, or nipples, from the ends of which the urine drops through several small holes in the cavity of the kidney.

The intimate structure of the kidney is entirely vascul. -- the

fmall arterial branches proceeding towards the papille are reflected back with ferpentine circumvolutions towards the furface of the kidney, then are bent again towards the papille; and, at length, fend off straight urinary ducts perforating the papille, and tending to the cavity of the kidney called pelvis, which is continued to the ureter, a vessel which runs into the bladder.

The pelvis, which is truly the head of the ureter, is the refervoir into which the urine drops from all the urinary ducts or tubuli. It is formed by the confluence of three large urinary canals, into which the fmall urinary ducts open by holes laterally. This cavity, or pelvis, is straitened at length into the ureter, one to each kidney; so that the kidney may be imagined to be a vascular congeries, confishing of arteries, uriniferous ducts, or those which convey urine; and veins, all running together over the substance of the kidney; the urinary ducts opening at length into the great urinary reservoir, or pelvis, which terminates in the ureter. In the kidney there are no follicles between the last arterial branches, and the first urinary ducts.

By this apparatus is the urine separated in the substance of the kidney and sent into the ureter: the vast largeness of the emulgent arteries, and their proximity or nearness to the heart shew, that a great quantity of blood comes, in a small space of time, to the kidneys. Now the blood, which is newly come from the heart, must contain a great quantity of water, as, besides our drink, and the stomachic and intestinal juices, almost all the lymph of the body is poured upon the chyle, in its receptable in the lower belly, and the duct in the thorax, immediately before

it is mixed with the blood.

This water is impregnated with the falts of the blood, and fome animal oil, attenuated by the process of concoction, or digestion, and circulation, and rendered miscible with water, and united with these falts, together with fabtle terrestrious or earthy parts, abraded from the infide of the animal tubes, conflitute the matter of urine. The diameters of the urinary ducts are adapted to admit these, and exclude, in a found state, every thing grosser, as globules of blood, mere oil unattenuated, milk or chyle, and ferum or lymph, that is concrescible by fire, urine being not so; at the same time they transmit every thing that is thinner, if it arrives at the kidneys; fo that urine is the lixivium or ley, as it were, of the blood; by the separation of which it is edulcorated. Its falts and oils, which begin by repeated circulations to be more acrid than the tender veilels of the nerves and brain could bear, being washed off, and thrown out by the urinxry pailages.

The URETERS, arising from the pelvis of the kidneys, win

down obliquely, and with a very small instexion from the kidneys to the lateral parts of the inner and anterior side of the os
facrum, or lower part of the back, and passing between the rectum and bladder, are inverted in the latter. Their structure is
much a kin to that of the intestines, though the innermost coat
is smooth and membranous, surnished with glands separating a
mucilaginous liquor to defend it against the sharpness of the
urine; they open into the neck of the bladder on each side, penetrating obliquely through its coats.

The BLADDER is a membranous and fleshy sac or bag, capable of contraction and dilatation, situated in the lower part of the abdomen or belly, immediately behind the joining of those bones, called osla pubis—and opposite to the beginning of the rectum. The sigure of it is nearly a short oval—it is broader on the fore and back, than on the lateral parts, rounder above than below, when contracted; and broader above than below when distended. It is conceived, as divided into the body, neck, and bottom, into anterior and posterior, and into two lateral parts,

right and left.

The upper part is termed its bottom—its neck is part of its lower portion, with respect to its situation in the body. The bladder is not within the cavity of the peritoneum, that membrane only covering a part of its bottom or upper part, and coming down no farther anteriorly, but being reslected over the bladder, descends, covering it, as far down as the insertion of the ureters.

The structure of this organ is nearly the same with that of the ureters, viz. besides the peritoneum, which covers but part of it, there is first an external cellular, under that a muscular coat; then a second cellular, then a nervous coat, and the innermost of all, a coat, in some measure, villous, surnished with glands which separate a mucilaginous liquor, necessary to defend it against the sharpness of the write, which stagnates within it often, for a very considerable time together.

The fibres in the muscular coat run in all manner of directions, the outermost, and most remarkable series is longitudinal, running from the neck upwards, and hath been thought to deserve a particular name—detrusor urinæ, expeller of urine—the others run obliquely, by different degrees of obliquity, and some altogether transverse: the neck, or under part of the bladder, is shut

by a mufcular ighincter, like that of the anus.

The use of the bladder is to receive the urine which keeps constantly slowing from the urinary ducts and kidneys into the pelvis and ureter—and to retain it; that it may not indecently dribble, and disturb the functions of life. It seems to change

its

its nature no otherwise than by its being kept at rest in a warm place, thereby becoming more acrid and stimulating. The urine is detained in the bladder by its sphincter, till by its distension, and the acrimony of the urine, either or both, we are made, uneasy and endeavour to expel it through the urethra—see page 53.54. &c.—out of the body, which is done in the same manner as the sæces are thrust out—by the joint action of the diaphragm, and the muscles of the abdomen, assisted by the proper muscular coat of the bladder—and the pyramidial muscles, in a particular manner, favour the evacuation of the bladder, as they lie nearly over it.

The UTERUS, or WOMB, the habitation of the fœtus, is fituated between the urinary bladder, which is placed before it, and the intestinum rectum placed behind it. In a grown woman, not with child, it is about three finger breadths long, two in breadth, where it is broadest, and one in thickness; it is of the sigure of a slat slask, convex before and behind, with edges inclining to sharp; its broadest extremity, which is called its bottom, is uppermost; and its small part, called its cervix or neck, is downwards---it is covered over with a production of the peritoneum, two portions of which, one on each side, fasten it to the sides of the pelvis, and are called the ligamenta lata, or broad ligaments.

The womb, when impregnated, hath but a very small cavity, its walls being very thick; the cavity is, in some measure, of a triangular shape, and it is lined with a very thin small membrane.

The womb is made up of a compacted cellular substance, with a copious intermixture of blood vessels—there appears something like muscular sibres amidst the cellular substance, especially in women newly delivered, variously distributed in little circles.

The smaller and lower part of the womb, called its neck or cervix, abounds with callous rugæ, or folds; in the interstices or spaces of which there are mucous sinuses, and here and there round vesicles full of a pellucid lymph, where it opens into the vagina, described below; it forms a round protuberance, not unlike the glans penis, called the os uteri, mouth of the womb, or os tincæ, because supposed, like a tench's mouth, divided by a rimæ or chink; on which protuberance there is plenty of a mucous, glutinous liquor, furnished by numerous sinuses there; this glutinous liquor serves to shut the os uteri in pregnancy.

The VAGINA, or canal of the uterus, is about fix or feven inches long; it is stretched from the mouth of the uterus to the pudendum, or external parts; it is of the same texture with the uterus; cellular, with numerous blood vessels interwoven: its inner surface hath several rugæ, or wrinkles; there are likewise

nervous papilles spread over it, which render it more sensible : its external orifice is furrounded with mufcular fibres, which constrict it.

The uterus, as hath been faid, is plentifully stored with blood vellels; they are furnished from the hypogattrics, by which, likewife, the inner and greater part of the vagina is supplied; its outer extremity is furnished from the external hæmorrhoidal.

The womb is adapted for the retention of the embryo, and its nourithnent, till the time of birth; and with the veffels of the vagina, for affording the monthly evacuation called menfes, or

catamenia.

But to the womb, for the purpose of promoting the generation of the human species, there are united two other contrivances on each fide, the one called tubæ Fallopianæ, Fallopian tubes, from the discoverer, Fallopius; the other, ovaria, from their re-

taining small round substances of the nature of eggs.

On each fide of the fundus uteri the former open by two small orifices, which in a dead subject, with difficulty admit a hog's briffle; from this small opening each tube proceeds somewhat transversely from the fundus towards the lateral parts of the pelvis, running between the duplicatures of the broad ligamentstheir diameters gradually augmenting to their extremities, where they are about a quarter of an inch wide; they run not straight from the womb, but wind in fuch a manner as to turn their wide, open extremities towards the ovaria; these extremities are jagged or scollopped; their external membrane, or covering, is from the peritoneum; their proper coat is plentifully furnished with veffels; there are fome obscure, seemingly muscular, fibres interspersed, supported by a spongy cellular texture.

The OVARIA are two whitish, oval, flat bodies, fituated on the fides of the fundus uteri, to which they are joined by a kind of thort ligament, and inclosed, together with the tubæ Fallopianæ, in the duplicature of the broad ligament-their fubiliance is cellular and close, without fat-in it there are found, even in the ovaria of virgins, little round vehicles, called ova, or eggsof an uncertain number, commonly ten or twelve, full of a tranfparent coagulable fluid. These ova adhere closely to the texture

of the ovaria.

The OVARIA and TUBÆ Fallopianæ, are supplied with blood-veffels from the spermatics, which have nearly the same origin in females as in males-viz. the arteries of the aorta, near the rife of the emulgents, and the veins from the vena cava, and emulgent vein; these inosculate with the vessels that go to the uterus.

These also are supposed to perform particular functions in the propa-2410 773

propagation and formation of our species---for the ovaria are squeezed by the edges of the tubes, disengage some of the ova, or eggs, which are impregnated, generally one, now and then two, three, or four, which are forced into the tubes and carried into the cavity of the uterus, where they fix themselves and are retained, and here the setus is nourished to the proper time for its birth, which happens almost always in the space of nine months.

We might now, according to what we first proposed respecting the nature of our subject, finish our anatomical account, as sufficient has been described to give a tolerable idea of constitutions in general; but as we also intend to shew the methods of preventing, or stopping the progress of particular complaints, local as well as general—we must, before we conclude, speak of the testes, urethra, and penis, the male parts of generation—as they are subject to some complaints which require early attention, by which several disagreeable consequences may be prevented.

The TESTES, or TESTICLES, with regard to their fitnation, are fufficiently known; they are defended from cold, and

other injuries, by feveral membranes or coats.

The outer one is called the fcrotum-which is made up of the epidermis, or fearf-skin;-the skin, and immediately under the latter, a thick cellular texture, closely adhering to it, but without mufcular fibres : next under this is what they call dartor, from its drawing up the fkin. This coat envelopes each teffis fingly; and by the junction of both together, where their fides are contiguous, make a partition or feptum between the two teffes: it is likewife wholly cellular, without mufcular fibres. and without fat. Under the dartos is the cremaster muscle, fo called from suspending the testicles; there is one to each, and arile from the tendon of the obliquus descendens, oblique descending muscle of the lower belly; yet some fibres from the obliquus ascendens, oblique ascending muscle, the embracing the body of testes all around, serve to ra 'e it, and squeeze it in the act of generation. It is probable, that by the action of this muscle, that the scrotum is gathered up into rugæ by cold, as neither it. nor the dartos, are furnished with muscular fibres. Under this muscle is another coat of a loose celiular texture, called vaginalis, from forming, as it were, a kind of sheath to the testes, between which and the innermost coat of all is a loose space, in fome meafure like that between the heart and pericardium, where a watery humour is contained—the last and innermost coat is called, from its whiteness, the albuginea; it is a thick, close, strong membrane, immediately contiguous to the kernel of the telles;

the substance of which kernelly part is of a white colour, and from reason and analogy, it is concluded to be a continuation of the evanescent branches of the artery called spermatic, from its fupplying blood to the telles, from whence the femen is fecreted, rolled up together. It is divided into more than twenty portions or clusters, separated from one another by as many partitions, which are productions of the albuginea. Each clufter, contained between two partitions, terminates in one duct; which ducts, above twenty in number, meeting together, form a kind of network adhering to the albuginea; every duct anaftomoling with thole contiguous with it: from this duck arife ten or twelve other diffinct ducts, which being separated, bent, or folded in a wonderful manner, make as many vafcular cones, and by their uniting conflitute the head or beginning of the epididymis, or imall tefficle. This fingle duct, variously bent and folded into ferpentine windings, fuch as there is no inflance of in any other part of the body, its windings being fastened together by cellular texture, makes a roundish body on the upper and posterior part of the tefficle, called epididymis, which, at length, terminates in a firm and tough cylindrical tube, called vas deferens.

The PENIS confifts of two bodies called corpora spongiosa, or cavernosa, spongy or cavernous bodies—part of the urethra, the glans or nut at its extremity, and its integuments. The integuments are, first the scarf-skin, and true skin—which being solded back, and adhering round the root of the glans, forms what is called the præpuce, in the inside of which there are small glandular solliculi, which separate an oily substance, serving to make the præpuce slip over the glans, and hinder them from growing together: this substance forms white slakes, and grows rancid and feetid by long stagnation. In hot countries, it is more apt to corrupt and create inconveniences, than in temperate climates. This seems to have introduced circumcision, which was early practised all over the East, and made a part of the Jewish religion. It is performed by cutting off the præpuce quite round,

close by the root of the glans.

Under this common integument, the penis hath a proper coat covering all its body, from the glans exclusive backwards, and is

of a tough tendinous texture.

The TWO CORPORA SPONGIOSA arise from the os pubis on each side, and are continued to the root of the glans: they are so called, because they are porous like sponge, and capable of being enlarged by a fluid penetrating their substance, chiefly in the living, by blocd—or in the dead subject, by mercury or inflation of air.

The URETHRA is a continuation of the neck of the bladder,

and runs in a furrow between the two corpora spongiosa to the extremity of the g'ans-it confifts of two thick fpongy membranes, with a spongy texture between them-its beginning is covered by glans called PROSTATE—at its emersion from which, it becomes thicker and wider for the length of an inch, which thick part is called its bulb, from the resemblance it bears to a bulbous. root; its inner membranes are pierced with many holes, here and there, through which, from a glandular apparatus in the foongy substance of the urethra, a mucilaginous liquor is furnished, serving to defend it against the acrimony of the urine. Befides thefe orifices, there are three other glands, two near the bulb of the urethra, one on each fide, about the fize of a pea; each of which fends off a long duct which opens into the urethra. and a third fingle one, lefs than the other two, at its bend under the os pubis-which fends off two ducts opening likewife into that canal. The first two are often found, but sometimes wanting or very small; the third is but seldom met with—the orifices are called by some lacunæ; these glands-Cowper's glands; they both, probably, ferve for the same purpose,

The GLANS is a continuation of the spongy substance of the urethra, reslected over its extremity, and expanded in the form we see: it is covered over with a thin epidermis or scarf-skin, under which there are numerous nervous papillæ, rendering it

extremely fentible.

The pents is plentifully supplied with blood vessels from the iliacs, both external and internal—its nerves come from those of the loins and facrum.

The use of the parts we have now described are for the propagation of our species, and some for the evacuation of urine.

We shall now conclude what we mean to advert to on the anatomical part of the machine, which we have rendered very early to be conceived, and think will be highly useful in affilling the uninformed readers to have just conceptions of what we mean by particular conflitutions in general, -what of general difeafes, and those called topical, or confined to some particular part,-and make them perceive the reason why such and such particular remedies or regimen thould be employed in such and such particular cases, as come within the reach of every man's power-whether they aim at preventing the accession, or shortening the progrefs when begun; all which will be much better, and eafter unlerstood, by the sketch, concise as it is, which has been given. For, tertainly, laying down rules and directions for a man how to proceed in nervous cafes, who has no idea of a nerve; in inflammation, who knows not any thing of the vafeular fystem; in jaunlice, Stone, gravel, who is totally ignorant of the liver, fpleen, bladder.

bladder, kidneys, is as bad as leading a man blindfold through a country to discover its beauties, and give him a knowledge of its fituation, foil, produce, &c .-- And to talk to a man of discovering the nature of his constitution, and directing him to proceed agreeable to its disposition, without telling first of what it is compoled, and making him fenfible of the natural action of its component parts, would be as vague and useless as chopping logic to a ruftic --- it might confound, but could not inform : and it is for want of true knowledge in these particulars, that men, in other respects sensible, are so often heard delivering a profusio of nonfenle on medical subjects. We therefore, in order to correct errors to often detrimental in their confequences, have prefumed to alter the general plan of publications of this fort, by thus begiuning anatomically --- and shall now proceed to shew the different conflitutions --- what they are, and how they may be difcovered.

But, first, we must take notice of those parts which are called the moving powers, by which all constitutional action is promoted, and life preserved; and these are---the brain and nerves---the beart, and vascular system---the lungs and blood---and the muscular fibres.

Now in proportion to the different degrees of power which these possess in their natural state, so may constitutions in gene-

ral be properly denominated.

The brain and nerves are confidered as the origin of incitability --- that is, motion produced in them by mental affections, and fympathy.

The beart, vafeular fystem, and muscular fibres, as the foun-tains of irritability --- that is, motion produced by material slimu-

lus.

The lungs and blood, the fource from whence all animal heat is derived...the univerfal stimulant of the human machine.

The muscles or muscular fibres, as the instruments of motion.

The stomach, intestines, and other viscera, as parts which may themselves be acted upon, and produce action of some of the general moving powers, and each on parts distant from them.

But we must observe, that with respect to the term, irritability ---it is by all authors equally applied to the nervous and vascular system, as well as muscular sibres, which we have shewn it necessary to alter, and confine it to the two last alone---because, independent of the nerves, they cannot be put into motion without some material stimulus locally applied to them---whilst the nerves may be brought into action by affections purely mental---the precise nature of whose action we cannot describe, and know them not but by essents. Besides, though they are in the habit

united closely, they may exist independent of each other, and may be separately affected---shewing those affections belonging to themselves, without disturbing each other in many cases.

It was, therefore, unavoidable to feparate the two---that conflitutions might be precifely and distinctively marked, where the action of one or the other were most prevalent, and hence great confusion prevented: add to this, it empowers us to account more rationally for sympathetic affections, that is, where parts distant from others, shew manifest signs of affection, though the cause producing them lies in some more distant part; or where affections are siddenly produced in the habit, from some external appearances out of the habit, no matter being at that time inherent that occasions these affections from the locality of irritation. But we must allow also, that the nerves are capable of being put into motion by material stimulus.

Hence then it is clear-that

The nerves are capable of being brought into action by mental affections, fympathy, and material ftimulus, themselves abstractedly considered.

The vascular system, and muscular fibres, under the same con-

sideration, only by mate ial stimulus.

That in their combined state, they mutually act on each other,

in many cases, or may be separately affected.

Now as the moving powers vary in their different degrees, and different combinations respecting those degrees, so do we conclude constitutions ought to be determined—and so ought different regimen, and applications of medicine, be advised—for preserving health, preventing, retarding the progress, and curing of diseases.

SECTION II.

On CONSTITUTIONS.

THERE is no subject on which we hear valetudinarians so much converse, as the particular nature of their constitutions; nor any on which they form such a variety of conjectures, at the same time to speak so positively, as if they understood what was meant by the term; nay, even are angry if you dispute their want of the most minute knowledge in this respect; and, indeed, it is almost held as an undoubted truth, that all men are the best judges of their own constitutions.

Notwithstanding, I can by no means allow this to be a truth, yet I can very readily conceive how they make the mistake, and on what it is that they build such a conceit--- they mean, that all

men can tell what things best agree with them, which commonly oca car, and which they have observed from repeated experiments; but this only comprehends the effect produced by different causes, and may affift in giving information to scientific men in investigating the precise nature of particular conflitations; but never can lead men, who have not made the medical art their fludy, to fufficient discoveries, for understanding the subject properly; a fubject which cannot be ferutinized too closely, as perhaps the whole good to be derived from judicious affiftance upon that knowledge totally depends. We shall, therefore, go a little deeper into this matter, in order to lay a foundation for the application of those remedies, from whence every man may derive benefit, with some degree of certainty, and after which all naturally thirst with the greatest avidity. But to make this business easy, we shall confine ourselves to the terms of which people in general make use, and endeavour to shew, what ought to be underflood by them, applied to the varieties prefenting themselves in different shapes in the human machine.

Mankind in general have furnished a great number of confli-

tutions --- under the following appellations:

1. Strong robust 10 Scorbutic 2. Weak, relaxed, delicate 11. Gonty

3. Nervous
12. Rheumatic
4. Irritable
5. Torpid
14. Flatulent

6. Coffive 15. Plethoric, or full

7. Lax 16. Hot 8. Bilious 17. Cold

9. Plegmatio 18. Confumptive.

And there have been deduced from the different appearances of the constitution -- the various effects to which they were prone; the humours confidered as inherent; and to the affections of particular parts, which they constantly, or on slight occasions, experience. But before any benefit can accrue in the application of remedies, or the manner pointed out by which mischief may be avoided from the fame fource, we fhould be acquainted with the corporeal construction and nature of their powers, which constitutes most of these deviations; and it is for want of this knowledge that felf created phyficians, dollars of imagination, occasion very often a multiplicity of evils to their credulous patients, and to themselves, under many morbid circumstances .-- prescribing boldly the fame applications to conflications diametrically opposite to each other, and which require very different materials to conquer the same complaint. For want of this knowledge, I have known coughs converted into pulmonary confumptions, and

that not unfrequently; gout into apoplexy; colds, inducing flight febrile affections, into inflammatory fewers; fore throats, easily carable at first, made dangerous, and too often fatal---and many other deleterious transitions occur from the same fountain---for it is a certain fact, there is not any man that does not fancy himfelf, in several cases, a physician; and when, by his ignorance in advising improper remedies, he has created mischief, perhaps death, he consoles himself, and the unhappy friends, by saying, he did it for the best.

To guard, therefore, against the unfortunate consequences of these good actions, our duty calls upon us to specify the particular nature of these constitutions, that we may hereafter, when requisite, point out properly adapted remedies, that the patients may not fail in the attempt to alleviate, or cure, or prevent particular complaints.

In STRONG, ROBUST CONSTITUTIONS,

The muscular stamina are firm, and well compacted; powerful and agile in motion; the pulse strong and full; the nerves equable and forcible in their influence; the circulation of the blood free, and the texture of that fluid possessed of great tenacity; the complexion healthful, and the whole habit in a state of strong activity.

In WEAK, RELAXED, and DELICATE,

The reverse of these occur—the muscular stamina are weak and loose, imbecile in motion, and soon wearied; the pulse small and quick; the nerves irregular and debilitated in their influence; the circulation of the blood languid, its texture loose; the complection pale or sallew; and the whole habit in a state of debility.

In the NERVOUS—the conflitution is like the latter in a great degree, but the nerves are easily incitable from slight causes, ereating spasmodic affections in different parts. People of this constitution are generally timid—have great variability of spirits, and much subject to hysteric sits, cramps, and slying pains,—putting on the appearance of various complaints, according to the parts affected; the urine is commonly pale, sometimes made in small quantities, then becomes turbid—or in large quantities, then remains limpid. In these, therefore, the nervous system is in such a state, so as to be quickly incitable, and readily and frequently thrown into morbid action.

In the IRRITABLE,

There is a strong propensity in the vascular system, and mussular sibres, to be thrown into quick states of contraction—the consticonstitution being in an intermediate state, between the robust and relaxed, and participating, in some degree, of the nervous. These are subject to have the circulation of the blood readily increased—shuthings in the face—are irascible, and easily moved to anger—they are soon heated by any stimulant taken internally.

Opposite to this constitution is the

TORPID .-- In these the circulation of the blood is languid, seems rather to creep, or undulate, than circulate; the extremities are generally cold, and they feel, without any cause very often, internal oppression; dreading, and fearful of imaginary calamities---they are naturally inactive, and indolent, unless roused by some pleaturable pursuit; irresolute, mutable, and very often timid in the extreme, where any difficulties are to be surmounted, and the habit is generally costive.

The PHLEGMATIC.

In these the lungs, stomach, and intestines, are apt to be loaded with too great a quantity of viscid phlegm--from the digestive organs being in too weak a state, and wanting a due secretion of bile-the habit costive—in general cold—subject to chronic coughs, and expectoration of tough viscid phlegm—the circulation of the blood sluggish—the breathing laborious—the muscular sibres and vascular system torpid—though corpulent, they very often are gross, and frequently subject to adematous, or pasty swelling of the legs.

The PLETHORIC.

These are such whose constitutions is apt to breed a great quantity of blood, and are chiefly of the irritable class, more inclining to the robust and athletic. In these the digestive powers are good—the appetite sometimes voracious, sometimes moderate—frequently hamorrhages occur, and very often copious evacuations of different sorts—also head aches of the dull, heavy kind, attended with frequent giddiness—they are liable to become often drowsy and sleepy, and fond of that species of indulgence—and these generally arise from too great plenitude in the sangunary system.

The BILIOUS.

Are such as have a very copious secretion of bile, which is apt to collect in its repository the gall-bladder, nor be regularly excreted, or pass into the duodenum, or sirst intestine—by which means, stagnating there too long, perhaps from its viscidity, it acquires a degree of acrimony, which, when poured into the intestines, occasion bilious colie, cholera morbus, or a vomiting up

and

and purging of bile---bilions loofeness. In these, the complection has generally a sallowish cast; they complain frequently of bitterish taste in the mouth---are commonly costive, and have deep-coloured urine often, depositing a yellow sediment; their appetite is very variable, and their digestion, for the most part, weak.

The COSTIVE.

In these constitutions, some of them are naturally so inclinedbut if not, it depends on particular states of the intestines, abdominal muscles, and the different viscera that pour forth their contents into the bowels; in these cases, the intestines are either
in a state of too great torpidity, or there is a desiciency of the
internal sluid---pancreatic juice---or bile, which last may be too
inert---or the abdominal muscles may be too relaxed---which
occurs sometimes in women who have had several children.

The contrary of which happens in

The LAX;

for in them the intestines may be in too irritable a state... slightly moved, or may be too slippery, from an increased discharge of the pancreatic and intestinal glands--or the bile may be too acrimonious--or acrid humors may be too constantly poured into the intestines, and stimulate them to too strong and quick repeated action.

The FLATULENT

Are such as have too great a quantity of wind, or air, in the habit, in a loose unfixed state—particularly in the stomach and bowels, which is discoverable very often by slying, wandering pains, increased on warmth by its rarefaction—by distension of the stomach and intestines—a rumbling noise in the bowels—emissions of wind upwards and downwards—and these may occur from a weak digestion—allowing particular materials to emit their air, and the juices formed from them incapable of re-absorption—from their not being properly elaborated in the first passages: from being also too tight laced, women often induce this complaint—and by the too common and frequent use of warm glysters—by a relaxed state of the stomach and intestines—and by feeding constantly on statulent food, and keeping long sasts.

The SCORBUTIC.

Such are indifcrimately fo stiled, who have the appearances of eruptions on the surface of the skin of different kinds—red pustulous pimples, nettle-rash, or dry scurfy scales—shefe truly indicate a prevalent acrimony in the habit of some fort; but the true scorbutic

feorbutic constitution is known by other marks—black, or livid, or yellow spots, on the surface of the skin—tender gums-bleeding on the slightest touch—sallow complection-rank setid sweats—loose texture of the sleshy parts appearing pussy and slabby-and this owes its origin to the texture of the blood being in a broken or very loose state—whilst the former depends more upon acrid humors in the habit--obstructed, or rather diminished, perspiration--weak digestive powers, and feeding on unwhole-some food, or eating and drinking too freely and luxuriously.--. These, therefore, are better divided into acrimonious and scorbutic---the first where the acrimony of the sluids is indefinite and cannot be ranged under any known species.

The GOUTY

Are such as are troubled with slying pains, occupying chiefly the small joints of the hands and seet---and having regular sits of that disease---being subject frequently to indigestion, and to be seized with pains of the joint of the great toe---or having pains of the stomach and kidneys, alternating with those of the hands and the seet---subject, from the same cause, to be teased with pains in various parts before the sit of the gout has become regular, or has retroceded, or is misplaced, owing often to debility of the active powers of the constitution---particularly the stomach and vascular system.

The RHEUMATIC.

These are such constitutions as are replete with rheumatic acrimony, which fixes itself in different parts of the machine, chiefly on the large joints, and runs along the course of the must-cles---or fixes itself also on the membranes of the muscles, sometimes affecting one, sometimes another---and slies constantly from place to place, assuming different appearances according to the peculiarity of the habit in which it resides---becoming in some acute and instammatory, particularly in the robust and athletic, who have strong stamina, and are readily irritable---in others, painful and chronic---in such whose constitutions are more debilitated or torpid.

The SCHROPHULOUS.

Are fuch, in which that taint called fcrophula, or King's evil is inherent, manifesting itself by glandular tumors, chiesly of an indolent kind, in the neck, for the most part, but also in other places of the body, where the lymphatic glands are dispersed, particularly in the lungs and mesentery—attacking the fair complectioned and delicate most commonly—shewing itself also by an enlargement of the upper lip and alæ nasi, or sides of the nor-strike-and swelling of the belly—a preternatural slight heat generally

merally attending the whole habit --- and febrile affections --- and fometimes a short tickling cough.

The HOT and COLD

The CONSUMPTIVE.

These are generally such whose texture of solids are very delicate—the vascular system irritable, and some degree of acrimony in the humors—pale complectioned—narrow chested—long necked—subject to sebrile heats, imitating hectic—easily thrown into pulmonic hæmorrhages—and frequently affected with slight tickling coughs—their teeth clear, with an appearance like transparency—their eyes often bright, sometimes towards evening languid—the ends of the singers rather bulbous—and the nails curved inwards, particularly when they approach near a morbid state.

We have here attempted to point out what is to be understood by the terms commonly made use of in applying them to particular constitutions; but we find that some have allusion to, and involve general ideas---whilst others are only confined to single or particular ones, and of which no use can be made, whilst in such a vague, and unsettled state---for in order to be of service, either in our preventive or curative plan, we must advert to those particulars which form constitutions in general---for it is by the regulating of them we must administer relief, when assisted with diseases to which they are prone---and prevent those whose seeds are disseminated through the habit from becoming active, and by that means constituting complaints to which they are specifically adapted---we, therefore, form constitutions into separate divisions---such as are simple and general---mixed and general---and such as are peculiar.

SIMPLE, and GENERAL are,

- 1. Strong and robust.
- 2. Nervous.
- 3. Irritable.

4. Torpid.

But these may be combined---and form others, As STRONG---ROBUST---and Irritable,

Torpid, Nervous.

Though the first of these is what most commonly takes place.

The WEAK, DELICATE, and RELAXED---may also be subject to the same combinations---

Nervous, Irritable; Torpid,

Apt to take place in the order here fet down-with regard to the

most general mode.

The MIXED and GENERAL .-- are

i. Plethoric.

2. Hot.

g. Cold: 4. Confumptive:

For these may be combined with any of the former---but depend upon the quantity and quality of the blood --- and the greater or less degree of the irritability, or incitability of the vascular or

the nervous fystem.

The PECULIAR are,

The 1. Lax.

2. Costive.

3. Bilious.

4. Phlegmatic.

5. Scorbutic.

6. Gouty.

7. Rheumatic.

8. Scrophulous:

And g. Flatulent.

Any of which may be combined with those which are simple and mixed—as a constitution may be

Strong, robust, plethoric, hot, coslive, gouty--- fo may the weak, relaxed, and delicate---though plethora is most generally

the concomitant of the former.

It will be unnecessary to form any other combinations in this place, as the reader will very readily conceive them himself; we shall only, therefore, observe, that there are some which can never exist in a combined state, viz.

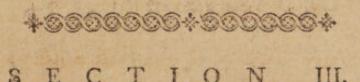
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The strong and robust, with the weak, relaxed, and delicate --the bot and cold --- the irritable and torpid --- the lan and costive.

Now as there is certainly such a diversity of constitutions, many of them diametrically opposite to each other; and as there is also a variety of accidents and diseases which will affect the different constitutions in similar modes, how can it happen that one and the same application shall be proper to all? For it is owing to the operations of the habit that difeafes are preventedmade milder, or cured; and it is to our applications, that thefe falutary operations are often brought about where nature is defective-and, confequently, obliged to our affiftance. We must, therefore, felect our remedies, and appropriate them to the particular constitutions; and let our directions be formed, with respect to diet and conduct, confistent with the same constitutional points-and more especially where our attempts are levelled at the prevention of morbid attacks; in completing of which we are to aim at keeping the constitution in a state of health, adequate to the powers with which it was originally endowed; fo that the common causes of diseases may not be enabled to produce their effects; which originate from different qualities and changes of the air; called conflitutions, climate, morbid effluvia, and intemperance or indiferetion; under which last we comprehend all those actions which, in their regulations, depend upon our own power, or are deduced from necessity.

Or, that such diseases, as are unavoidable, may be made to produce their instruence on the machine in the most mild and gentle state; such as, small pox, measles, and various severs, and other complaints of the insectious or contagious class; or those which arise from an hereditary cause: in accomplishing which purpose, it will chiefly depend upon the proper use and application of what are called the NON-NATURALS; which, before we can be enabled to give proper directions in these points, we must examine, and show the peculiar influences they are capable

of producing in the habit.



OF THE NON-NATURALS.

THE celebrated HOFFMAN, to whose labours the art of physic is much indebted for its improvement, says, "A improvement, says, "A improvement, says, "A

" physician assisting in the curative operation of nature, should " use the milder and simple diætetic remedies, rather than those " which are very active, and compounded of the pharmaceutic " class. By diætetic is to be understood, those materials which " are taken from such things, as every body requires for the " prefervation of health and life, and which are received in the " fchools, under the denomination of non-naturals; for, inaf-" much, as from a wrong or inordinate use of these, the first " foundations and proximate origin of diseases arise, and also " have their violence increased; so nothing is better adapted to " expel or fubdue morbid affections of various kinds, than a " proper use of them, with a regular mode of living, for without " that, nature can do no good in healing, nor medicine produce " its defired effect. Whence the truth of GALEN's affertion, "That medicine has no efficacious remedy which can bring " any permanent affillance, if the mode of living should resist it, " or should not act in conformity, and become an useful auxili-" ary." And he folemnly afferts, " That by diætetic remedies, " (in which change of air and climate, proper exercise, well " adapted meat and drink, also a prudent use of whey and mi-" neral waters, with abstinence and eafe are to be included,) he " has performed such things in conquering obstinate chronic " difeases, which chiefly had their long and fixed feat in the " weakened fystem of the nerves, as spalmodic, convulsive, " hypochondraic, and hyfteric affections, which others had in " vain tried to accomplish by medicines elegantly compounded, " and judiciously administered, and he himself had expected " from medicines of great fame."

And certainly the doctrine is perfectly true-medicine can do very little in a variety of cases, without a strict adherence to a well-adapted regimen-and in preventing the machine from being afflicted with a diversity of maladies, nothing. The failure of all the arcana, spoken so highly of by a number of the ancients, as to be called panaceas—nay, the hands of Gods—indeed, those supported by names of no less consequence than FRIAR BACON, and LORD VERULAM, have proved how little dependence can be placed on the most extolled nostrums-whilst Carnaro, and feveral others of more modern date, have experimentally and incontestably proved what may be done in these points by a proper regimen, felected with judgment, and perfevered in with resolution-not only curing different obstinate difeases, which had resisted the force of the art of medicine, in the hands of the most well-informed and fagacious practitioners, but infuring a continuance of health in a green old age. For Carnaro fays, " At eighty-three I now enjoy a vigorous state

es of

of body and mind---I mount my horse from the level ground--I climb steep ascents with ease; and have lately wrote a comedy full of innocent mirth and raillery; when I return home,
either from private business or the Senate, I have eleven grand
children, with whose education, amusement, and songs, I am
greatly delighted; and I frequently sing with them, for my
voice is clearer and stronger now, than ever it was in my
youth. In short, I am in all respects happy, and quite a stranger to the doleful, morose, dying life, of lame, deaf, and

blind old age --- worn out with intemperance."

Great as are these advantages --- how happy should it make us in our reflection, and how thankful to the benevolence of Providence ought we to be, that thefe, in a great measure, lay within our reach; for enviable as are the bleffings CORNARO enjoyed, he emerged from a state of constant torment, by a steady adherence to, and uniform perseverance in temperance, approportioning his regimen to the nature and exigencies of his conflitution only---which is extremely worthy of imitation, as its confequences will amply reward for any mortifications we may have to encounter in the beginning. In order to qualify ourfelves for which, we must proceed to enquire into those sources from whence he drew such consolation --- and here we shall find, they all concentered in the proper use OF THE NON-NATU-RALS --- fo called, because they affect man without entering into his composition, or constituting his nature -- but yet are so necessary, that he cannot live without them --- we should rather term them necessaries -- as they are things natural in themselves, and to man's existence necessary, and unavoidable. However, as our bufiness in this place is to give information on material things, we shall refrain from verbal investigation, as of little moment --and confider them in the following order --- flewing their manifest qualities, and explaining their perceptible effects. They have been divided into fix heads, viz.

1. Air.

2. Aliment.

3. Exercise and Rest.

4. Wakefulness and Sleep. 5. Repletion and Evacuation.

6. Paffions, and Affections of the Mind.

But before we enter on a full discussion of these separately, we must observe, that the six might, with great propriety, be reduced to sour--as exercise and rest produce pretty nearly similar effects on the constitution, as wakefulness and sleep--hence might these not improperly be reduced to one head, allowing some-

fomething more to exercise, than wakefulness, because of the mus-

cular motion employed in the former.

As for repletion and evacuation, they, we shall find, more properly belong to the class of diseases, as these being too profuse or too sparing, constitute morbid affections of the habit.---However, we shall speak of each in their place, agreeable to their

arrangement --- and first of

AIR .-- And here we mean not to enter into philosophical or chemical fubtleties of the nature of this fluid, but confine ourfelves to that of atmosphere, whose different flates and changes produce perceptible effects on the constitution-and which all ages have confidered as one of the occasional causes, and that very material, of health or difeases, according to its good or bad properties, affecting the body by inspiration, as well as its circumambiency. It is a fluid possessed of specific gravity, elasticity, and transparency, and compressible-it furrounds the earth, and when agitated, or driven in currents, forms wind: it is extremely fubtile, penetrates, and mingles with every part of the body, and by its elastic property, gives an intestine motion to all the sluids, and a lively fpring to all the fibres, which promote circulation: it is never absolutely pure, but always mixed with heterogene. ous particles, and that air which we call pure, is fuch as is not overcharged with any freams.

It has its varieties, and differs with respect

i. To its weight or levity.

2. Heat or coldness.

3. Dryness or moisture.

And 4. Purity or impurity.

Now these properties of the air separately, or by their different combinations, produce many unpleasant effects on the constitution—give rise to and aggravate many symptoms in particular complaints—as well as are the origin of many diseases themselves.

1. For if the air is too beavy, it produces inflammatory affections of the membranes in the cheft and lungs, called pleurify and peripheumony, head-ach and giddiness, &c. by pressing upon the surface of the bedy—obstructing the pores of the skin, hence impeding perspiration—accelerating the motion of the blood—occasioning it to crowd on the internal parts, and there circulate too rapidly—hence it is impelled too forcibly upon the lungs, and too copiously upon the brain—impeding, indeed, the natural functions of those organs which lie remote from the surface of the machine.

2. If it has too much levity, its elasticity, is increased, and hence produces, by vascular distension retarding the circulation of the blood, and by diminishing the resistance of the sluids contained in the pulmonary vessels, discharges of blood from the lungs—hysteric, and hypochondriacal affections—rheumatism—gout, &c.

3. Should the air be too bot, by rarefying the humors, and weakening the fibres, it increases the circulation, and augments perspiration, in which it is greatly aided by its additional stimulus on the vascular system—whence acrimony is induced in the

remaining fluids.

If too cold—local inflammations—as quinfeys, pleurifies, peripneumonies, are brought on by over diffending the lungs from
its gravity—increasing the tone of the vessels by constringing their
fibres—condensing or thickening the humors—and lessening perspiration. And should this state of the air suddenly succeed too
long-continued heat—ardent, bilious, and other severs are the
consequence—by producing its effects on the constitution, where
the blood is in too raresied and acrimonious a state, and the bumors participating of that acrimony with which the sanguinary
mass is so replete.

4. Too dry an air shrivels up the solids, incrassates or thickens the fluids, and disposes to febrile affections—whilst too great moisture in that sluid, relaxes, and debilitates, lessens perspiration, renders the blood too watery—and by these means becomes extremely injurious, laying the foundation for coughs, as thmas,

dropfies, intermittent and nervous diforders.

From the combination of some of these different qualities of the air, different affections sound their origins.—Coldness and moisture are offensive, we find, to the constitution—but heat, moisture, and levity, are more pernicious, because these, acting together, supply the habit with a putrescent tendency, from whence many of our most dangerous complaints arise, as vomiting and purging of acrid bile, called cholera, bilious looseness, malignant fore-throats, and putrid severs.

or imaler quantity of heterogeneous particles; these are particles which belong not to the air in its natural state, which sloat in it—hence it has, besides the above evident qualities, others which escape detection by the senses, though from their deletrious or mischievous essects, sufficiently manifest—such are from infections of various kinds—2s small pox, measles, scarlet sever,

&c. malignant effluvia, exhalations, &c.

With regard, however, to the falubrity of the air, we must obferve—that is most falutary, which is pure, dry, and temperate, untainted with noxious damps, or putrid effluvia, from any cause whatever; but the furest mark of good air in any place, is from

the longevity of its inhabitants.

The evident marks of a bad, or infalubrious air in any house, are dampnesses, or discolouring of plaister or wainscoat;—mouldiness of bread, wetness of sponge, melting of sugar, rusting of brais or iron, and rotting of furniture:—and nothing is more conducive to render air noxious, load it with putrid steams, and breed bad distempers, than permitting common and crowded burial places to be within the precinct, of populous cities; or numbers of poor people living in uncleanliness, collected together in small houses, or narrow streets.

Valetudinarians experience the most agreeable fensations when the wind is westerly, though when at north, or north east, it is accounted bracing and healthful. Indeed to powerful an effect has the influence of the winds, agreeable to the quarters in which they were fixed, been supposed to have, that it has been afferted, our dispositions and tempers are greatly affected by them; -long continued eafterly winds make people, who are naturally cheerful, very irritable and morofe. Nor does our tempers being affected by the different flates of air, feem at all improbable; inafmuch as the body and mind are linked together in fuch close and intimate bonds of union, that they reciprocally affect each other: for as corporeal affections will, we know, alter the natural dispositions of people-making the placid and sweet tempered, often petulant and peevish-the courageous, timid, fearful, and irrefolute—the most patient, restless and unquiet—the lively and volatile, languid and desponding-and the most active, indolent; -fo may the air, as it conduces to throw the conflitution into states nearly morbid, produce, in some degree, similar effectsas has been repeatedly experienced by men, not divested of obfervation.

A west wind, in general, is esteemed the most salutary—then a north-west—after which succeeded, in degrees of salubrity, in the following order—east, north-east, and last, south and south-east—and these may be accounted for, from the different qualities of the air, in proportion to the excess or desiciency of heat, coldness, moisture, dryness, weight, or levity—or the different noxious or contrary combinations they bring along with them.

From what has been advanced, the lituation of our habitations will be a very material confideration, in conducing to the prefer-

vation of our health.

The most healthy exposure, we have been told, in any place fixed for residence, is to be found by cutting one of the trees near the place where the house is to be built, transversely with a saw, then closely to observe the rings which appear on the sur-

face

face of the section; the side of the tree on which the distance of the rings from each other is greatest, is the most healthful exposure. And this is obvious, because there has been the greatest accretion of matter by the healthful disposition of those parts so made, from always being blown upon by air from the most salubrious quarter, which it saces, and being hid from that which comes from the opposite, which seems to produce a different effect—and it is an admitted sach, that in all places, or parts of country, where vegetation is most vigorous, manifested by the strength and richness of the vegetable class; there will also animals enjoy the same consequences—hence should the windows of the house, all other circumstances being the same have a similar aspect.

That house is considered as healthy which is fituated on rifing ground, or fide of a hill, and gravelly foil, because it is lefs exposed to damps and flagnant waters, in an open dry country; the rooms should not be small, but rather large-though not cold ; the exposure prudently adapted to the nature of the climate, but fo contrived, that it may be perflated by the east and north winds. whenever you pleafe, which should be at least once a day-to blow away animal fleams, and other noxious vapours ;-but the air of the bed-chamber, especially, should be pure and untainted. not near the ground, or any kind of dampness. We may in general conclude, those fituations are most falutary, where these different properties of the air commonly attend in degrees of mediocrity, fleering in a medium between two extremes-nor will it be a small addition, if they are near a river or brook, whose stream is constantly running over a gravelly or fandy bottom-for standing water is always detrimental.

The country is more healthy than cities, or large towns, which are populous, from the greater purity of the air, if they are in similar fituations; but some countries are extremely unwhole-fome, from the noxious vapours with which the air is impregnated—as those near the marshes of Essex, sens of Cambridge-shire, or contiguous to lead mines, and smelting houses; for in grounds close to these two latter, animals which graze there are often destroyed, and vegetation greatly impeded: indeed the miners, smelters, and people in the vicinity, are subject to the dry or

convultive colic, and paralytic affections.

These are the principal effects of the air-we must proceed to

2. ALIMENT;

Under which term is comprehended all those esculent animals and vegetables, as well as liquids, by which we are supported, and which we use in common for the purpose of nutrition; and these these are supposed to possess different degrees of nourishment, most of them having passed through some culinary process, more or less adapted to our nature, before they are received into the stomach, but which have particular portions proper to be assimilated, and form parts congenial with those of the human machine to which they are applied.

But before we enter on the particular nature of our various aliments, as we are writing to people who are not thoroughly conversant with the animal economy, it may be necessary to premise some account for their information, of the different processes nature has assixed towards the completion of this assimila-

tion.

As foon as the morfel is put into the mouth, it undergoes, by the teeth, and action of the muscles of the jaws, a considerable division, by the office of mastication or chewing, in order that its texture may be broken, and mixed with a due proportion of faliva, before it passes into the stomach-fome more fluid being acquired in its descent; -when it arrives at the stomach, it there gets blended with the juices of that organ, supposed, and proved by Spallanzolli, to be a powerful folvent of our food, and fome fmall portion of bile; and, during its relidence there, experiencing the effect of heat, and mulcular action, from the coats of the flomach, and motion of the diaphragm, lungs, intercoftal and abdominal muscles, and the large blood-vessels and parts which lay contiguous; it thence passes gradually over the pylorus, or lower orifice of the flomach, and there meets with the bile from the gall-bladder and liver in much larger quantity—the pancreatic juice, or that of the fweet-bread, fimilar to the faliva, but rather more viscid-and the fluids separated by the intestines; and here it is subservient to the further action of the muscular coat of the intestines, and their peristaltic motion-churning, as it were, their contents and minutely mixing and blending together. the food taken in; and the different juices, which it has received in its flate of comminution and folution-from all which a milky juice is formed, called chyle—this is separated from the faculent fordes, and taken up by a fet of fmall abforbent veffels called lacteals-which open upon the inner coat of the intestines, and pass through the medium of the mesentery, which is the connecting membrane of the bowels, to the lower vertebræ of the loins, and there empty themselves into a vessel, called the thoracic duct, or receptaculum chyli-but there are, through the melentery, various glands interspersed, through which these lacteals pass, and where the chyle is mixed with a thin lymph feparated there for this purpose, in order to rend it more fluid. It is by these lacteal veffels, the motion of the intestines, and the force of the circucirculation unavoidably carried forward to the thoracic duct, as it cannot regurgitate, on account of the valves in various parts of these lasteals, which prevent its retroceeding motion-because they open only forwards - and are shut closer by any sluid preffing backwards: thus then is the chyle thrown into the receptacle-which continues its courfe, to the fubclavian vein, along the vertebra-into which it enters, and from whence the chyle is poured, and thence immediately thrown into the right auricle and ventricle of the heart, where it mixes with the blood, and passes into the lungs-here it receives a considerable trituration, receiving material alterations from thence, and from what it receives from the atmospheric air inspired into that organ ;-from the lungs it returns through the pulmonary vein into the left auricle of the heart, then into the ventricle-from whence it paffes, mixed with the fanguinary mass, into the aorta, or large artery; and is diffused universally through the machine, where it is completed for the purpoles of nutrition-being perfectly affimilated into the nature of animal juices—and by its proper application to particular parts, wanting the addition of nutrient fluids, renews what has been abraded, and thus keeps the machine in a state adapted to the performance of its necessary functions. fupplying portions proper for the requilite fecretions. By thefe various means is this affimilating effect produced-a contrivance. which nothing but divine and beneficient Wifdom could be adequate to bestow-for let the animal be fed upon food, ever fo various, and diffonant in their own peculiar properties, still that power can convert materials fo difagreeing to the advantage of the creature feeding upon them; nay fome, fuch as goats and affes, will be nourished by the products of nature-which, to horles, oxen, sheep, &c. prove the most fatal poison.

It is most probable that our first food was of the vegetable class, in the selection of which, man was directed by experience, led to it from the smell and taste; and the support and increase of strength from thence consequent, would confirm their use. But beasts being troublesome to the cultivators of the earth, and vegetable diet not being proper to support sufficiently those who were employed in such labour, the slesh of animals made a necessary addition; of which we find a great variety at present are appropriated as common food, and the catalogue of which luxury

hath, in no fmall degree, augmented.

Notwithstanding food is required to repair those particles which have been worn away, and distipated by perspiration, still a constant and quick repetition is also requisite; for the blood, from its own disposition apt to run into the nature of lixivial salts, continually approaches near to putridinous acrimony, from

the circulatory motion and heat it perpetually suffers, by which

the animal humors are greatly disposed to putrefaction.

But the blood also from perspirable matter passing off, acquires a disposition to coagulate, and the restitution of the watery shuid; that its globules may be separated, and preserved in a state of stupidity; and consequently the rest of the humors in a proper disposition for secretion.

These truths are demonstrable, not only by their causes, but the appearance of men and animals, who die of hunger—for it is common for them to have an acrid, setid, offensive breath; their teeth loosened by corrosive saltness—violent pain in the stomach—acute severs, and delirium.

The nutritious part of the food, from animals, confifts of a gelatinous lymph;—from vegetables of a farinaceous substance—in which is a portion of vegetable acid, oil, and saccharine or sugary matter; consequently, where the digestive powers are perfect, those which abound most with such matter in their respected,

pective classes, are the most nutritious.

But animal lymph, or the finest or most subtile part of the study, affords the quickest and strongest nourishment, as it is nearly elaborated into juices similar to our own; vegetables less so, as most of the esculent roots, plants, and fruits, are of an acefeent nature, sew are alcalescent, or replete with stimulant or aromatic particles; sew are possessed of gelatinous lymph, and only are nutritious from their farina; not many changing into those humors called indigenous, or natural, after having passed often through the course of circulation.

Notwithstanding which, it would be extremely improper for men to live alone on animal food; lest a habit should be induced too full of blood, and too replete with putrescent juices; creating ferocity, scurvy, setor, leprofy, and all kinds of lixivial corruption; as in the case among the anthropophagi, or those who seed on human sless; all which mischiefs, by change of diet, and

living folely on vegetable food, are conquered.

Hence, in warm conflitutions, hot climates and feafons of the year, men who are indisposed, as well as those in health, have a greater propensity to acescent vegetables, in proportion as the heat is more or less excessive; and hence men in very hot countries, commonly live on vegetables, seldom or not without danger, on animal diet; but in cold countries, the practice is safer, and more free from inconveniences: for this reason, bread, or farinous substances analogous to bread, is universally made use of; but we should observe, that vegetable food, besides its acescent property, is replete with fixed air.

From what has been faid of the nature of aliment, the utility of mixed diet, vegetable, and animal, will be obvious; as they

are correctors of each other; hence likewife will be allowed, the propriety of uniting acids, or four fauces with high-feafoned difhes, or eating them with the flesh of animals, whose juices tend to promote faline acrimony; as fish, wild fowl, &c. and we may deduce also the following conclusion :--- That ANIMAL FOOD is most nutritious, beating, and slimulant, disposing to putrefaction. --- VEGETABLE-lefs nutritious, cooling, diluent, acefcent, flightly aperient, and corrective.

We must now advert to our third point-

3. EXERCISE and REST.

And when we speak of exercise, we include that of the mind, with the body; for these two are so intimately connected, that they produce a variety of effects one on the other.

To exercise, the ancients have, as well as the moderns, indeed ever attributed great utility, particularly in purfuing it with propriety, and have allowed, that great conflictational misckief may

be derived from its abuse or neglect.

It has with great justice been considered the sole instrument of the cure of many difeases, especially those of the glandular fyftem; and SYDENHAM had fo high an opinion of it, particularly riding on horseback, that he affirms, " Mercury for the lues " venerea, nor the bark for intermittents, are not more certain " fpecifics, than riding on horfeback for a confumption;" though here he feems to be fanguine in his opinion, and has given too great latitude to the falutary effects of this remedy; for, certainly there are cases of consumption where riding becomes injurious --- but the confideration of the subject belongs not to this place --- we shall speak more minutely of it, when we come to give particular directions on that complaint.

Exercise confists in local motion of the body, and that motion more powerful of the limbs. It has been divided into ferious, and amufing; that belonging to labour is of the first class---diversions the second. GALEN hath written pretty copiously on the subject, and pointed out when it might be salubrious, and otherwise.

Severe exercise, when we exert quick motion, called gymnaflic, extenuates the body; the contrary renders it grofs; long continued, diffipates its moisture, and occasions dryness: moderate makes it fat. However, well-regulated exercise, we find, in general, produces a freedom of circulation, assists digestion, promotes perspiration, and increases glandular secretion and excretion; by which mean fuch as is proportioned to the strength --- carried beyond that, it occasions fatigue, and becomes instrumental in producing those evil consequences, it otherwise is cal-K 2

culated to remedy; for when too freely used, it is the source of loss of appetite, great thirst, loathing of food, heat in the bowels, costiveness, chillness, rigors, and fainting. And this must be the case, when we consider the effects produced in the system, by that which is judiciously adapted; as by increasing the oscillatory motion of the vessels; that is, making their contractions and dilatations quicker, their contents are properly comminuted; all crudities destroyed—the blood rendered bland and mild—the fordes, or gross part, thrown out of the habit—the vascular system strengthened, by which the nervous power becomes equable in its action, and, consequently, the solids of the animal firm, and the sluids pure.

The mind also has its influence, for though by its exercise it may be made stronger.—still, if not kept within proper bounds, it brings on fatigue, and hebetates, or renders the moving powers of the machine inert and dead. Hence the exercise intended to promote and preserve health, should be such, as is united with mental amusement, rather than labour---inasmuch as in the former, the mind is exhilirated; will communicate agreeable sen-

fations, and give firmness to the moving powers.

REST is also necessary to relieve both the mind and body; fuch as is sufficient to free the vessels from the stronger exertions of their elastic force, recruit their strength, and set thinking faculties at rest from their labour. But this, if carried to excess, becomes indolence, and lays the foundation for those disorders, which arise from inactivity—and this brings on universal relaxation of the solids—glandular obstructions:—enervates the system, vitiates the humors, creates pains in the stomach, slatulencies, indigestions, &c. and renders the affections of hypochondriac people, and those who are gouty, in a great measure incurable.

From what has been advanced on this subject, the subsequent

deductions may be drawn---

That EXERCISE and REST may be confidered mental as well as corporeal: the FIRST, in moderate, degrees, should be esteemed properly stimulant, a strengthener of the system, promoting digestion, circulation, secretion, and excretion; the SECOND, restorative obiesty, but both in extremes, debilitating.

The next of the non-naturals which prefent themselves to our

confideration, are,

4. SLEEP and WAKEFULNESS.

And these produce nearly the same effects as the former--only muscular force is less employed in wakefulness than exercise, and the animal receives most of his detriment from vascular action, and debilitating the nervous influence; and by too much sleep the body is apt to become sooner relaxed--have the mind more inert

If

inert, and, confequently, more liable to those complaints which arise from universal indolence --- though these, in moderate degrees, are effentially necessary and falutary; for moderate sleep increases perspiration, promotes digestion, cherishes the body, and exhilirates the mind --- whilft the contrary extreme renders the habit phlegmatic and inactive, loads it with crude humors, renders the vascular system sluggish and inert, disposes the folids to relaxation, impairs the memory, and stupefies the understanding :--on the other hand, excessive watching distipates the strength, produces fevers, dries and wastes the body, and anticipates old age. It has been thought that different ages of life, as well as conftitutions, require more or less sleep --- for youth, or manhood, fix or feven hours; for infancy, or old age, eight or nine; but the infirm ought not to be limited, they should be permitted to indulge in fuch a measure, as is found from experience necessary for refreshment.

From the general effects produced by fleep and wakefulnefs, they may be confidered as nearly fimilar to those of exercise and rest, and may also be concisely marked down---as stimulant and sedative---producing every good effect by their moderate use, and proper adaption; and a variety of mischiefs by their abuse, or excess.

The next in order follows the fifth feries ---

5. REPLETION and EVACUATION.

But little can be faid relative to these in this place—for if what hould be evacuated is retained too long, or in too great quantity; f what should be retained is evacuated too freely, they all contitute diseases—and will be treated under their respective heads.

If perspirable matter passes off not as it ought, but is obstructed -plethora, or too great plenitude, fevers, head-ach, giddiness, nslammations, &c. will ensue.

If what we eat lies too long on the flomach-indigedion, heart-

If there is any retention in the lungs-coughs, inflammation, filma, &c.

If in the liver-inflammation.

In the gall-bladder -- jaundice &c.

In the bowels-coffiveness, and its consequences.

In the bladder—difficulty in making water, inflammation, &c. As the retained matters, from their delay, may acquire differnt properties according to their nature, and may create diforers confident with their acrimony, viscidity, quantity, or reight.

If too great a flux happens from the falivary glands-it confli-

tutes a ptyalifm, or falivation.

ra morbus, or vomiting and purging of bilious matter, alimentary flux, white flux, loofeness.

If from the bladder-diabetes, or morbid efflux of urine.

If from the genitals-feminal gleet.

If from the skin-morbid sweating, called ephidrosis, besides a variety of others, which may produce general affections, either by sympathy or acquired acrimony, as the nettle-rash, infantile hectic fever, &c. And these retentions or evacuations are to be remedied by such applications as the medic art assords. Nor need these have been mentioned here, only to shew their consequence in the animal economy—as for the well being of the machine, it is necessary that parts where these retentions and evacuations occur, should perform their functions properly.—Of these nothing more can be said, we shall, therefore, advert to our last subject.

6. PASSIONS, and AFFECTIONS OF THE MIND.

Every man is truly sensible of the ill effects arising from giving way to those variety of affections which we call passions; and satal experience often convinces and makes them lament being so prone to act obedient to their impulses. So strongly do they affect the human machine, that the most surprising consequences have been known to originate from these sources on the sorporeal, or solid parts, as well as the system in general.

There are innumerable inflances of fear creating a fudden and powerful action of the bowels and urinary passages. Fright has put off a fit of an intermittent, when all remedies had failed; a ristol fired in the chamber of James the First had this effect, occasioning also a sudden action of the intestinal canal downwards; it has also given rise to an indissoluble tumor in a woman's breast; excess of joy has caused fainting and stupor; anger, induc-

ed apoplexy and phrenzy.

We cannot account for the precise mode in which these hapjen for a certainty. Hence, says a learned author, "We must
"content ourselves with knowing they are positive sacts, for,
"till we are informed by what means the mind and body are
"united, we cannot even form a probable conjecture, how the
"operations betwixt them are performed."—In these cases, however, I think that the peculiar state of the constitution, with regard to its nervous incitability, vascular irritability or torpor,
tenders people more or less liable to feel these impressions, if not
totally

stally, still in a very great degree; for all those, which we call ervous, are more subject to manifest the action of these sudden r mental affections, than those who have an apparent firmness of ie nervous fystem, and whose vessels are not so irritable as very adily to feel the impulses of their affections --- to me it has opeared to be univerfally the cafe.

However, with respect to the passions themselves, they may medically reduced to two heads-volatile and faturnine; or

live and Sedative.

But as disquisitions of this fort would lead us more into the eld of speculative curiofity, than practical utility, I shall connt myself with taking a quotation or two from a judicious wrir on this subject --- and from thence make the application to af-

rtain the propriety of the division.

" Fear, grief, and those passions which partake of them --- as envy, hatred, malice, revenge, and despair, are known by experience to weaken the nerves; retard the circular motion of the fluids; hinder perspiration; impair digestion; and often to produce spasms, obstructions, and hypochondriacal diforders; and extreme terror has fometimes brought on death." These I term- faturnine or sedative --- because they affect the rvous fystem in such a manner, as to impede its influence in neral-confequently, the action of all those parts that are dendent upon it, and where any of them feem to act supernatully, that action is occasioned more by irritability, or pre-diffition of the part, than from any other cause.

" Moderate joy or anger, on the other hand, and those passions and affections of the mind, which partake of their nature--as cheerfulness, contentment, hope, virtuous and mutual love, and courage in doing good, invigorate the nerves, accelerate the circulating fluids, promote perspiration, and assists digestion :--- but violent anger, which differs from madness only in duration, creates bilious, inflammatory, convulfive, and fometimes apoplectic diforders, especially in hot temperaments--and excess of joy destroys sleep, and often has fatal and sud-

den effects."

These I term volatile or active-because they so affect the sysn of the nerves, that they increase its influence --- confequently e action of all the parts dependent upon them, which, whilst oderate, produces falutary effects; but when too violent, nelary deleterious or dangerous ones, from too great an excess action.

Hence, though we cannot influence the mind in the particular nner we wish always, we should endeavour to raise such sensations, as may be productive of those purposes, we are defirous

by other means of promoting.

Where the action of the vascular system is too violent, we should attempt to inculcate fear—where too torpid, cheerfulness; for these may in some degree, have effects on the moving powers.

In treating of the non-naturals, though we have spoken of the solid aliments by which we are nourished, we have not said any thing of the liquids we in common use, we must, therefore, in order to render our labour completely useful, advert to them, as much benefit is to be derived from a thorough knowledge of their properties and effects, and no small degree of mischief avoided.

It is indeed a melancholy confideration to reflect, that, though health is the only foundation of all pleasure, and may, by easy methods, be preserved, men should neglect these means, which would enable them to pursue their darling Goddess through all her varied scenes of rational delight; but so it is, for not with-standing innumerable authors have written professedly on the diætetic regimen, from the unwillingness valetudinarians have in complying with rules, which lay a restraint upon the gratistication of their appetites, though calculated to preserve health, it has been too much neglected.

Election treats, Parish dinners, Session and City Feasts, and free luxurious indulgence, have numbered many with the dead, which proper abstinence might have preserved. However, as men will not refrain, but rather become slaves to excess, duty calls upon us to apprize them of their danger, at least to inform them in what things they may exceed with the least possible inconvenience. In addition, therefore, to what has been already advanced, it appears necessary to take a survey of the properties of those liquids we in common drink—which have been consistent.

dered with regard to their powers---as either

DILUENT, SHEATHING, NUTRITIVE, STIMU-LANT, ANTISPASMODIC, or SEDATIVE, which in their

order we shall now attempt to explain.

1. The DILUTING LIQUORS—are all fuch, as added to the circulating mass of sluids, renders them more sluxile—by producing no other essects than what arise from mere mixture and divisibility of the integrant parts, and solution of the acrimonious and saline particles therein inherent.—Of this class therefore, we consider

Water, Small Beer and Tea.

The former of which appears to be the most eligible beverage,

as it is free from faline matter, and abounds not with air, in fuch a proportion as might occasion fermentation: that is preferable which flows from mountains through fandy foils; is the coldest, limpid, most light. and insipid to the taste--as it is better calculated to afford a well-diluted chyle: but of all, that which is distilled is the most eligible, as being thrown into a state of vapour by heat, it is divested almost totally of those earthy, heterogeneous materials with which other waters are apt to abound---hence, consequently, in its purest state.

This fluid, befides thinning the blood, and diffolving the faline and fcorbutic acrimony of the juices, renders the circulation eafy and uniform by attenuating any viscidity; it restrains, by by its coolness, the quick motion, and intense heat of the humours, moistens, and mollines rigid fibres---and if a glass of cold water is taken going to bed, it promotes perspiration, and often brings

on gentle fweats.

Good small beer has the same properties, but is more apt to occasion fermentation from the saccharine substances with which it is, though slightly, impregnated, and is more viscid---and from

thele it may be confidered as rather more nutritious.

Tea is also a proper diluent, and affists digestion, drank a proper time after dinner, where it does not disagree with the stomach, as in some peculiar constitutions, affecting the nerves of that organ, and the system of them in general, so as to occasion

fickness, tremors, and fainting.

2. Those liquids are called SHEATHING which are mixed with mucilaginous substances, and produce their good effects, by involving the acrimonious particles of the blood-increasing its vifcofity, and preventing them from producing, or at least lessening their stimulating powers on the valcular fystem in general --or guarding the stomach and intestines from feeling the effects of any irritating materials which may be therein contained --- the principal of which are water mixed with oatmeal or wheat flour, called gruel-or with hartshorn shavings, salop, sagoe, tapioca --and boiled till the mucilaginous parts of these are dissolved, and then are confidered as emollients or demulcents --- or where fubstances are replete with oleaginous particles, fusiering similar folution in the same menstruum---hence partake they also of a nutritious property: here then to the lift may chocolate be added -fat broths -- milk mixed with fuet -- the last, a food not uncommon, and very uleful to fuch as are subject to constant diarrhoa, or loofeness, from acrimonious humours poured upon the bowels -which is improved by the addition of a little flarch-and all these are confidered much more nutritious than those of the former class.

pable of being affimilated to the nature of the animal juices by the digestive powers of the constitution, and partake of these properties in a greater or less degree, as their parts approach nearer to, or are more distant from, the nature of our fluids, before they are taken into the habit:—hence the most nutritious are—beef, snutton, or weal tea, as replete only with the finer juices—foups, broths—the soups sometimes, in the first digestion, are more simulant, owing to the spices with which they are seasoned, consequently the most heating. Any of these above, however, made from the slesh of the older animals, are most nutritive—as they partake less, of vegetable nature, and have their juices more perfectly elaborated, and less subject to promote viscidity, than those from the younger species—and here may be enumerated those made from bartshorn, or the jelly from that and isinglas.

The next is milk, which approaches very near to the nature of chyle, whilst in the breast of the animal, though more closely allied to its perfect juices. It is divisible into serum or whey,

cream, curds—of which last is formed common cheefe.

Milk when cold loses some of its finer parts, and boiling robs it of more, by more copiously dislipating them: it is demulcent and nutritious, and partakes of a middle nature, between vegetable and animal, and is apt to curdle on the stomach, if it meets with a strong acid, too suddenly, or in many febrile disorders.

To fome constitutions it is perfectly agreeable, creating no uneasiness, be the stomach in what state it may; still in others it increases acidity in the sirst passages—it, in some, produces di arrhœa—others it renders costive; in some it occasions the headach; in others an uneasy sensation in the stomach, and pain—and many cannot enjoy the least ease, till it is ejected by vomiting: but where it agrees, no food can be more pleasant or salutary, where it does not increase corpulency. It has been the food of several adults for a series of time—and those who refrain totally from animal food, in this acquire an agreeable substitute.

The milk of an healthful young woman is, to the human frame, infinitely the most preserable, so is that of any animal to those of their own species, as more completely finished to their particular nature.—For medical use next succeed, the milk which has the greatest affinity with that of woman—in which respect these are thought to pursue the following order—asses, mares, goats, that of sheep and cows.

The next which fucceeds to this is-

Chocolate -- though it partakes not of animal nature, fill from

its being more replete with oil and faccharine substance, it is not only nutritious but demulcent --- though it is apt fometimes to fit uneafy on the stomach, if it is made too thick, or not well milled or ground --- but more particularly when the nut is badly prepared, or when it is decayed, greafy, and rancid --- made thin, it is light: therefore when chocolate, from its richness, creates any uneafy fenfations on the stomach, a glass of water taken afterwards, by rendering it more dilute, will prove a remedy--but from its abounding with a quantity of oil, it requires the powers of digestion to be very active for its assimilation : hence, it should never be drank in too large quantities at a time. The least nutritious of this class are some of the sheathing liquids we before mentioned, as gruels, sago, salop, tapioca-because they partake folely of vegetable nature, and are not fo replete with oleaginous or faccharine substances, but are merely mucilagihous.

4. The STIMULANT are-

Coffee, wine, punch, perry, cyder, ardent spirits; taken in moderate quantities--in larger, they exert fedative effects perceptibly; but as we conclude they always exert this last effect, though in a degree only proportionate to the quantity taken, we think it right to take a view of them in their state of combination to avoid perplexity---and therefore we mark them down as

STIMULATING and SEDATIVE.

The first of which consist of such materials, as by their active powers, irritate the stomach, occasion warmth there, communicate it to the constitution in general, either by sympathy or vascular irritation--- increase the circulation of the blood for a time --exhibitate the spirits, increase perspiration, and invigorate the whole system---or, taken in large quantity, produce such effects sympathically upon the common tensorium, or force the blood so copiously and powerfully upon the brain, that it is incapable of feeling the effect of pain or rather uneasy sensation---indeed, sometimes this insensibility may be carried so far from this cause, that people become apoplectic from the increased pressure on the brain---or from impeding sympathically, or mechanically, the power of nervous influence, expire.

Of this class, we consider

Coffee---though never attended with any of these violent consequences, must be ranked under this head, as one of the slightest kind---for it is of a more heating nature than tea---gently stimulant, astringent, and resists putrefaction; it also moderates alimentary fermentation---though, like tea, it is not agreeable to

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every

every constitution; as in some it will produce, particularly in those who are delicate, nervous symptoms: it decreases corpulency, and is serviceable to gross, phlegmatic habits.

Dr. Cullen, speaking of coffee and tea, fays,

"Their effects, in my opinion, are very much mixed, depending on the warm water;—the affilting digeffion--relieving
the flomach from a load of aliment—from crudities—alleviating head-achs arising from them—promoting the secretion
of urine, and, perhaps, pertpiration, may all fairly be attributed to the warm water. These are the chief virtues to be attributed to tea and coffee.

"The weakening the tone of the flomach by frequent use—
"and the system, in consequence, inducing tremors and spatmo"dic affections, are the effects of the tea itself, though, in some
"measure, of the warm water." And, certainly, great mischiets are done by drinking them too hot—a very common practice by very delicate constitutions; for, by these means, the stomach is brought into too great a state of relaxation—indigestion occasioned—crude chyle thrown too freely into the habit—obstructions formed in various parts, and a general state of debility, with a variety of painful consequences, occasioned through the whole system.

Wine, spirits, ale, porter, cyder, perry, punch—may all come under the same description with regard to their powers, if we make some allowances with respect to a few trisling peculiarities which occur; for they all of them are stimulants to the stomach and system in general; possess some antispasmodic powers, and increase circulation.

Spirits are more powerfully stimulant than wine, less antispasmodic, and not disposed to run into the acetous fermentation.

Wine is endowed with thronger antispasmodic effects; cyder and perry next; porter and ale the least. Wine is more powerfully stimulant than these; less disposed to acidity, if pure, than cyder and perry—and all of them free from that tenacity

or vilcidity in ale and porter.

Ale and porter are apt to load the stomach more, and require strong digestive powers to assimilate them: porter is supposed to possess stronger diuretic essects than ale—though they all have them in some degree—but amongst the spirits, that called Geneva shews them the most manifestly—of which the common fort, formed of ardent spirits, impregnated with terebinthinate substances, is the strongest—those impregnated with juniper berries the weakest.

But, as we can never get wine, though fo valuable an article, whether confidered as a luxury, or a medicine, completely perfected,

fected, even that effeemed the most pure; and as it is made such general use of—it will be advantageous to examine the parts of which it consists, by which means, we shall be enabled to discover how its action may be varied; and, perhaps, the same holds good in all the rest, except spirits, though most probably in an interior degree.

WINE has for its bass faccharine substances, of which it is formed by the process of fermentation, which converts the whole, not at once, but progressively, into a vinous sluid; one part remains unassimilated—one is assimilated—and one becomes acid.

Hence wine is compoled of three parts,

Mult, pure wine, and vinegar.

Must, HIPPOCRATES describes the juice of grapes, recently expressed, conde, flatulent—only having one good property, it is aperient; and if it does not act as a laxative, it becomes so much the more noxious to the body. It is, perhaps, owing to this that new wines, or other seementable liquors, drank too early,

prove purgative as they generally do.

Some authors have faid, that must is, properly speaking, what is called /weet wines. It should, with more propriety, be confidered as something different, formed by the fermenting process; because, by fermentation of sugar on the stomach, a subtile sluid, called by the scholiasts, gas sylvestre, and considered by them as a fixed, factitious, and fixable air is produced, which acts on the bile, prove laxative, &c. But must acts in a less quantity than fugar, and therefore must be something altered from the faccharine substance, now changed in its properties :- whatever it is, it destroys the tone of the stomach-disposes it to spasmodic contractions, and, confequently, diffurbs and interrupts digestion. If aciduy is produced, it will join with the gas sylvefire in weakening the Stomach --- the acid thus formed will unite with the bile, produce a strong stimulus -- thus occasion a flow of mere bile to the intestines. and cause what is called the cholera morbu, a copious evacuation of bile upwards and downwards, with violent spafmodic affections but these effects are seldom produced to such a degree of vehemence.

The active part of the juice of the grape is called ALCHO-HOL, or the spirit of wine, but weakened in its action in its compound state. This exerts itself on the nervous system, chiefly, if not altogether, by means of the stomach; bence it is stimulant, increasing circulation, and the force of the nervous power universally.

In large dofes—ALCHOHOL DESTROYS THE MOBILITY OF THE NERVOUS POWER—WHENCE, FROM 1TS STIMULANT AND SEDATIVE EFFECTS—confusion of ideas and delirium; STILL REPEAT-

ED, the nervous flow is arrested --- voluntary and involuntary motions destroyed --- sleep, lethargy, apoplexy, and death, are the confe-

quences.

In WINE, the effects are almost never so rapid, on account of their dilute state, and small doses in which the alchohol is thrown in; on which account it proves only more stimulant and exhilirating—it may produce stupor, but as it is apt to be rejected by the stomach, and by other matters with which it is mixed, the powers of alchohol is moderated.

PUNCH, which is only an artificial wine, is less noxious than

alchohol and water, though more fo than wine.

Though an acid is evolved, and enters into the composition of wine, and alchohol, still another, and more copious and separate, is formed—which is

VINEGAR.—This commonly contains some sugar, may be laxative--bave the effects of unconverted sweet wine--generate gas sylvestre, that subtile suid; and, in short, bave all the properties of fresh juices: when thoroughly converted, it determines other veg etable juices to acescency--weakens the stomach--proves spasmodic---and has all the consequences of acids there generated.

But combined with wine, these qualities are more innocent; as the action of must, alchohol, and vinegar, separately may prevent each other's simple and deleterious effects; and also the water may, in the proportion in which it is mixed, have its essicacy in weakening the properties of the other component parts.

CYDER and PERRY may be considered as having the same properties, though in much less degree than wine, with regard to their stimulant and sedative effects; but are more replete with acescency—generate too great degrees of slatulency, run quicker into the acetous fermentation, and produce uneasy gripings, and more painful sensations of the bowels, besides being more productive of calculous complaints, and the convulsive colic, or dry halls ask termination for its also

belly-ach, terminating often in palfy.

From this review we can easily judge of the effects, whether advantageous or otherwise, which are likely to ensue from wine, and also from the different compositions sold by our retail venders and wine merchants, under that title; which produce disagreeable consequences to those who drink freely of it---laying the foundation for a variety of dangerous, lingering, and fatal complaints. In order to shew which, we have been at the pains of going more minutely into this subject, that we might explain the particular parts of which wine was composed—declare the properties of them separately—manifest what were salutary, what otherwise; as also the necessity of a proper combination to form their utility; and hence be enabled to discover how the

pol-

nitely

poisonous compositions, fold under that appellation, must invariably produce their baneful effects; for these are made of the unfermented juices of some vegetables-sweet raisin wine, cyder, and British spirits; and this jumble is coloured with some ingredients agreeable to the wines intended to be imitated-with the addition, fometimes of a small portion of wine, and constantly of that noxious material called fugar of lead, or lead itself, forming this fubstance by the union with a portion of acid they contain. Now compounds like these must be replete with those mischiefs which we have enumerated under must and vinegarand others brought on by the fedative aftringent powers, occafioned by preparations of lead-rendering the action of the flomach and intestines torpid, relaxing these organs, obstructing the exit of materials which ought to be thrown out of the bodyfilling the machine full of crude and acid humors-contaminating the whole mass of fluid-and preventing digestion, that parent of almost all chronic diseases. When we, therefore, speak of wine, we would not be understood to mean these baneful compounds: but that which is pure, as can be imported, which MACKENZIE fays, " is an admirable liquor, and, used in mo-" derate quantity, answers many purposes of health; and beer, 46 well brewed, light, of a proper strength and age, if we except " water and wine, is, perhaps, the most ancient and best fort of " drink in common use among mankind."

But with respect to wine we may carry the matter surther, for it is generally allowed to be the most agreeable and powerful cordial we can have recourse to in the last stage of some severs, completing of itself the cure. In low nervous, and putrid severs, it is beneficial throughout—when there appear symptoms of great debility— and it may be very often taken in large quantity, where the moving powers of the system abate much of their salutary action, and the sluids seem to be running rapidly into a state of

putrescency.

How much, therefore, is it to be lamented, that we should be deprived of so valuable a liquor—replete with so many useful properties by the avarice of a set of beings, who are suffered to impose upon, and injure the public with impunity, and amass sortunes, by selling poisons for our destruction, instead of wine for our preservation and recovery of our health. For, I am persuaded, thousands have sallen devoted victims to this illicit and infamous practice. In lieu of these, where people are under the nevessity of purchasing wines, rather than depend upon the worldly integrity of these dealers, I would recommend the wine properly made of raisins, or the fruits of our own country, they are infi-

nitely less noxious, nay, indeed, may be made equally efficacious to the others in their purer states.

5. The next which are to be spoken of, are those invested with

DILUTING and NUTRITIVE POWERS.

And these are chiefly all those where water abounds, and are impregnated with farinaceous, saccharine, and animal substances; in which will be included, gruels and weak broths---the latter of which, as also soups, when thrown into the habit, may be considered as possessing some degree of stimulus, adequate to the nature of animal food in its solid state, but weaker in degree: and these will be more or less diluting and nutritions, in proportion to the quantity of water and other substances they contain—the diluent property depending upon the former—the nutritions upon the latter; the particulars, relative to each of which, may be collected from what we have delivered in our first and third section on this subject.

6. Our last are,

The NUTRITIVE, STIMULANT, and SEDATIVE;

Such as, in some degree, possess these separate properties-which

may be confined to

Ale and Porter-the stimulant and sedative powers of which have been spoken of when we treated of wine, of which these may be confidered as species, made of malt-though to porter there is a mixed and flrong fedative power, inafmuch, as it appears to have some narcotic ingredient infused it, as the cocusus indicus, the Indian berry, opium, or some materials of a similar nature. However, that they are very nutritious, needs no ard guments to prove, we have only to depend upon facts; for it is observable, that all who drink copiously of these liquors, are corpulent, if they have powers of digeftion adequate to their affimilation—common porters, coal-heavers, chairmen, &c. chiefly exist on this-drinking some gallons in a day; and indeed fuch, whose labour is very severe, require it: but in all such, it is necessary for their digestion to be extremely good, for these liquids abound with a great share of viscidity, which requires great constitutional strength, and strong labour to subdue. To delicate, relaxed habits, whose itomachs are weak, they create great load and oppression, much heat, and febrile affections temporarily induced.

What we have here delivered, perhaps may be by fome thought of too trivial confequence; and is by many too much, even in the practice of medicine, neglected—Itill will be found, on ex-

perience,

perience, worthy of very close attention: for the knowledge from thence to be collected, and properly applied, as we shall soon have occasion to shew, forms one part of medicine, comprehending that which is stilled—prophy lactic or preventive—is, in many cases, solely curative, and should in all go hand in hand with the administration of the more active and powerful remedies in the cure of diseases. Indeed ignorance in these points, or an injudicious dixettic course, will counteract remedies the most salutary on the one hand, whilst, on the other, an accura eknowledge, and proper combination, will greatly add to their esseacy.

Having now laid down the principles on which we shall probeed through the course of the subsequent work, almost folely in that part which is intended as the preventive, and, in a great measure, in the curative—we shall proceed to the former, after recapitulating some particulars, in order to form general rules for our proceedings, and render all our directions easy and intel-

ligible.

SECTION VI.

CONSTITUTIONS MORE PARTICULARLY SPECIFIED.

WHEN speaking of constitution in our former Sections, we have enumerated that variety which is generally adopted, in order to shew what ought to be understood by the different terms, and by what constitutional causes they were produced—and have divided them into simple and general—mixed and general—and peculiar—as

The firong and robust;

Weak, relaxed, and delicate,

Nervous, or incitable,

Irritable, Torpid,

And their combinations—that is, the union of two or more, as they happened to be possessed of incitability, irritability, and torpor; and these could only occur, with respect to the solids—but as the suids also are concerned, it was necessary to take them into the accounts; we therefore conjoining them with the former, with respect to their quantities, qualities, and essents—have stiled them MIXED—as when associated with

Plethora, Actimony, Heat, Cold,

Or having Consumptive tendency. As for those we denominat-

ed peculiar, they depended on accidential circumstances, as a review will convince us, and unnecessary to be taken into the general account, as to those alone must our modes of prevention, mitigation, or cure, be directed; for it is by regulating their operations alone, that we must in all cases expect to derive benefit. Some also of which may be omitted, as they deduce their origin from particular affections of the other in combined states, as the bot, cold, and consumptive.

We, therefore, shall arrange Constitutions under the following

heads.

A. The strong, and robust,

More or less irritable,

torpid,

incitable.

B. The weak, relaxed, and delicate.

More or less incitable,

irritable,

torpid.

Acrimonious.

With respect, then, to the first of these Constitutions; 1. The

strong, robust, and irritable.

They are inbject to many inconveniences, chiefly from the rapidity of the blood's motion; hence are liable to fall into violent continued fevers, and inflammatory diforders. To prevent which' all excelles of hot or cold air should be avoided; stimulating aliment, high feafoned diffies, and fuch as are extremely nutritious ? too fudden and violent exercises, repletion, and the more boisterous passions. They should observe temperance in all things, and especially keep free from immoderate drinking, and take care that none of the natural evacuations, should be checked, or obstructed, such as that of perspiration, urine, faces. They should have recourse to occasional bleeding, when the head feels loaded, giddy, or when they are drowfy, and prone to fleep, or symptoms of general fullness are prevalent, but not use it unnecessarily, or too frequently, and empty the habit now and then by purgatives; they thould drink diluting liquors, as water, or fuch where that is superabundant; in general be sparing of animal food, and rather eat freely of vegetable diet, for these are aut to be plethoric, or loaded with too great a proportion of fanguinary mass: for such, a moderate, warm, and moist atmosphere is the most eligible fituation; in fine, nothing should be allowed them that will increase too powerfully the action of the living folids, or occasion too great an increase of the fluids. These ons are in general warm.

2. The flrong, robuft, and torpid.

" Where, though the stamina are firm in too great a proportion there is a defect of irritability the vafcular system being in too torpid a state. These require not any particular attention, as from the want of proper fenfibility they will not be exposed to feel particular changes arifing from common causes, or such as would effect those which are more irritable. These constitutions bear all evacuations well, as they are not apt eafily to have their folids too much relaxed, but are rather prone to become plethoric, from indulgence, which they are apt to run into, from not feeling those effects, which people of different habits fo frequently experience. They should endeavour to prevent an overfulness either by abstinence, or proper evacuations, which they bear in general without inconvenience, though bleeding in thefe is less adviseable than purging, owing to the torpid state of the fystem; and, which, being neglected, should a plethora be the consequence, some of the internal parts of the habit, as the brains, lungs, &c. might be affected by dangerous, or at least troublefome oppressions, and we very often find men of this Constitution for want of timely care, and from indifcretions, afflicted with fudden vertigos or giddiness of the head, coughing, or spitting of blood, apoplexy, &c. and these are sometimes of a cold habit, though plethoric, and apt to fall into hypochondriac affections from vifceral accumulations, and languid circulation.

3. The ftrong, robust, and incitable.

This Constitution sometimes, though more rarely occurs, and when it does, it generally is united with vascular torpidity. In this there is too great incitability of the nervous fystem; and men of this habit are subject to a mixture of hysteric, and hypoehondriac diseases; irascible at trifles, desponding nearly approaching to melancholy, they are apt to be afflicted with various spafmodic affections, particularly of the throat, intestines, and stomach; fometimes make profuse quantities of pale, limpid water; at others, small, but turbid and high coloured; they are frequently tormented with flatulence, and perplexed with whimfical and inconfistent ideas; the extremities are generally cold, and moving from place to place, or any motion almost is performed with languor-most of the evacuations are lessened, or irregularly performed; sleep is imperfect, they are troubled with frightful dreams, and are subject to the incubus, or what is called the night-mare, and all these are derived from the same constitutional fources, when torpor attends; for from the want of due power of the muscular fibres, the circulation of the blood is not carried on with full freedom to the extremities, the internal parts con-M 2 fequently

What we have do

fequently are loaded, hence in those parts there is an additional fullness and stimulus, for the stimulus is always in proportion to the quantity of blood slowing to a part or collected in it, from the evolution of the heat, and the superabundance of acrimony, for the fluids of these constitutions generally abound with acrimony, particularly such as is productive of the nettle-rash; hence, then, the internal parts become more sensible to the nervous influence, consequently solicits it the more freely; and hence arises

the appearances above enumerated.

In these habits—frictions on the extremities, warm cloathing, warm bath, riding on horseback, are essentially necessary; generous diet, wine, stimulating vegetables should be adhered to, food of easy digestion the mind should be kept perfectly at ease, cheerful company, change of scene, and such amusements as divert the attention, produce a moderate degree of mental hilarity, should be procured; and as for medicines, they should be such, as at the same time, that they allay the incitable power of the nervous system, distuse a general warmth through the habit, and these given occasionally, as associated, musk, vitriolic æther, camphor, but all opiates must be avoided, because they are apt to render the muscular sibres too torpid—in general chalybeates may be persisted in, and Bath waters should be recommended.

But where instead of torpor, vascular irritability is a concomitant, besides being subject to inflammatory complaints, and continued febrile affections from flight causes, they are subject to permanent fpalmodic affections, fuch as those which are denominated by medical men, tetanic complaints, where, when fpafms arife, the mulcular fibres remain in a fixed flate, not contracting and relaxing alternately, nor fugitive as in common convultions: these are liable to be seized with a locked jaw, and continued muscular rigidity. In these constitutions, warm baths are peculiarly useful, gentle and constant exercise, cooling diet, and copious dilution with aqueous liquids, thin acescent wines, milk and vegetable diet, evacuations of all kinds should be constantly and moderately produced, particularly perspiration, and the body should never be costive; I have faid moderately, because in endeavouring to abate the irritability of the fystem, we must be careful not to increase the incitability, which is apt to be the cafe, from evacuations too copious. Opiates are in these habits extremely useful, and may be freely given under particular circumflances. With regard to regimen, what we have faid before in the beginning of this fection may be adhered to, taking especial care to avoid all mental uneafinefs. These conflitutions are apt to be plethoric and attended with heat.

What we have delivered appertains to those who are considered

bined. We must now proceed to such as have a WEAK, RE-LAXED, DELICATE HABIT, JOINED WITH TOO GREAT INCITABILITY. And this circumstance generally occurs in these habits, that they have also too great a share of irritability. These are subject to painful and spasmodic diseases; and the more delicate sex of this constitution are prone to hysteric affections from the relaxation and irritability of their habits. They also are constantly attacked on every slight cold, with slow fevers, and have their digestive powers loaded with saburra, or different kinds of ill digested matters in the stomach and bowels,

making their way into the habit in this noxious form.

To these, a dry, clear air is essentially necessary, moderate exercife, particularly riding, cold bathing, and chalybeate waters; animal food eafy of digettion, and free from fat, and a temperate use of affringent wines. Vegetables should be administered sparingly, and those of the less flatulent kinds; food and liquids, viscid and tenacious, such as flour puddings, potatoes, oysters, flrong foups, and malt liquors, ought to be prohibited. Every thing calculated to firengthen the tone of the fystem, and preserve it in an equable flate ought to be had recourfe to, and all things likely to weaken it must be defisted from. Cheerful company and moderate amusements are serviceable, but pursued too freely, the reverse; for all fatigues, both of body and mind, are prejudical—the custom of taking vegetable acids too copiously is also pernicious-hot tea, or any thing drank too warm--for these all contribute to relax and load the stomach and intestines, with foul, viscid materials, which produce therein internal stimulus, create flatulence, and communicate general irritability through the lystem. Blood should never be taken from people of this habit, but upon the most urgent occasions, and then only sparingly, in which cupping is preferable to the lancet; and it is fafer to take it away at two operations, than at one, fome little distance of time from each other, if more than fix ounces should be required. All sudden changes should be avoided with the utmost caution, either with respect to cloathing or diet, the mind kept free from anxious cares—hence watering places are ufeful, where those impregnated with chalybeate particles, or iron, may be drank; in fine, every thing ought to be advised, which, in a moderate degree, can exhilirate the spirits, and contribute to give strength to the folids. These constitutions are generally warm, fubject to irregular flushing heats, and have for the most part no fmall degree of acrimony in the habit. But there are some who poffels too great a share of torpidity, and then they form that kind.

WITH A DEFECT OF SENSIBILITY; and these are subject, not only to nervous affections, but to chronic and destructive diseases; for the circulation in all these is languid, and the absorbent system acts not with proper freedom. Hence will arise those complaints which depend on an acrimonious state of the humors, and an accumulation of the sluids in the whole, or particular parts of the system—as dropsy, jaundice, corpulency, scorbutic complaints, green-sickness so called, obstructed menses, glandular tumors, &c.

In these torpid habits, stimulants are useful, as also are evacuants; to these, a dry air and high situation are most suitable, with a generous diet of the more pungent class—such as the juices of the older animals. sish, mustard, horseradish, cabbage, and all of that class: brisk exercise on horseback, emetics, and frequent purging, in order to shake the vascular and glandulous system, prevent accumulations, remove obstructions, hinder the bile from stagnating, and the mucous sluids from collecting. All the natural evacuations should be kept free from suppression, to accomplish which, the system ought to be perpetually roused to action; hence indolence and indulgence in bed is to be particularly avoided; the thinner stimulating liquids, as white wine diluted with water, should be the common beverage, and the mind kept in a state of cheerful activity, free from all gloomy and desponding resections.

Were the rules here laid down observed before our mass of humours had been contaminated by indiscretions and various species of debaucheries, which weaken and disturb the system in its performance of the proper offices alloted to her various parts, perhaps there would be little occasion to consider of those things, which are necessary to prevent diseases arising from a default of the natural humors of the machine; but as that is not the case, they call upon us for our consideration, as well as those which are fortuitously thrown into the Constitution. And those we

shall divide into such as are first,

NATURAL,

And those which are

ACCIDENTAL.

The natural fluids are divisible into

General,

or

Partial.

6. r. In the first or general, the blood offends by its too great quantity

quantity or state of acrimony. From the too copious state of this fluid, a variety of complaints may arife, and, therefore, when symptoms of oppression appear from this cause, which will generally manifest itself by languor, a sense of weight or fullness in the head, when rifing in the morning from bed, or in stooping, and fullness also of the pulse; abstinence, indulging less than ufual in fleep, increasing the natural evacuations, and using more exercife, will effectually reduce the body to its proper flandard, if these things are had recourse to in due time, and persevered in for a proper period; the diet should be the least nutritious, more of the vegetable than animal class, the last eat of sparingly, confining themselves to one dish, and having it only once a day, and water should be the only beverage; but should inanition, or a want of a proper quantity of blood be induced by any cause, nutriment should then be given of the most quick and easy digestion-as teas, and broths made of the slesh of older animals, thin jellies, and the flesh of the younger animals, as chicken, rabbits, lamb, veal, &c. and in fuch quantities, though that can be readily converted into chyle-for it is a mistaken notion, to suppose the larger the proportion of nutrition thrown into the habit, the fooner it will be recruited; the reverse will happen, for by these means the digestive powers being overloaded, will be weakened, and confequently even a fmall portion be prevented from being properly assimilated, or reduced to the nature of our own healthful fluids, which they must be before they can answer the purposes for which they are intended—as on the contrary, if so much is only given as those powers can conquer, they will gain fresh strength every day, by the application of that which has been converted into a nature peculiarly adapted to the end proposed; and this quantity may be repeated as often as the constitution requires it. By this a further waste will be prevented, which may also in this view be assisted by the use of stomachies, which chiefly confift of bitters-as gentian, orange peel, q assia wood, slight chalybeates, gentle aromatics, and such

o. 2. But the blood may become acrimonious, and this acrimony may be confidered of different natures. They have been divided into acid, putrefcent and muriatic, so called from MURIA brine, a liquor made of common salt, which this muriatic humor is supposed to resemble; but we shall not pretend to advance this as a certainty, but confine ou alves to the effects of some agrimony, which seems different from the two sormer.

The first then, or the acid, is supposed to arise from weak bowels, and particularly observeable in our infantile state, and, perhaps, the stomach and intestines are the only place where such acidities are to be found. To prevent which, we must endeavoir to threngthest the digestive powers that they may make good chyle; hence after clearing the bowels with the sal polychrest, or small doses of calomes, and rhubard and gentle emetics, slight doses of chalybeates may be had recourse to, mixt with rhubarb to keep the bowels gently open—weak broth should be given once or twice a day—panada, with a small portion of some agreeable aromatic well boiled; and such things as have in themselves the least tendency to acidity; frictions on the abdomen or lower belly, stomach, legs, and feet, with smart exercise, will be highly serviceable—as these will invigorate the system, promote a brisk circulation, and increase the action of those organs intended to pro-

mote the formation of good chyle.

The fecond, or putrefcent; where the fluids tend to a flate of puttidity, thews itself generally by the face being puffed up, as it were, and tinged with a hue, fomewhat approaching to livid; the breath offensive; the gums spongy, and bleeding on the slightest touch, nay, fometimes voluntarily :- here fresh air, austere wines, fuch as give a fense of roughness, or aftringency to the tafte, vegetable diet, ripe fruit, water impregnated with fixable air, fmart motion, and corroborating bitters, with abstinence from animal food, particularly filh, promife fair for fropping the effects, which might otherwife arife, by checking the putrefactive disposition, and meliorating the fluids; moift, warm situations thould in this case be particularly avoided—and living in close places much crowded with inhabitants-for nothing conduces more to bring on, and increase such a state of the constitution as thefe-by relaxing the folids, and furnishing a constant supply of putrescent effinvia.

The third, or what has been filled the muriatic, is indicated by hot eruptions, which itch much, attended with uncommon thirst and fluthing heats; to alleviate which, the fulphureous, faline waters are recommended, particularly those of Harrowgate, Thorp-Arch, and those of Mossat, avoiding at the same time all heating, acrid food-fuch as turtle, high feafoned didies, and rich foups---whey and milk in thefe cafes are extremely beneficial, the SCORBUTIC JUICES, made of the juice of garden fourby grafs, water creffes, both expressed from fresh berbs, and of Seville oranges, two pints, spirituous nutmeg water, half a pint, these are to be mixed together, and after they have flood till the feres have subsided, the clear liquor must be poured off for ule. Of these juices, fre two table-spoonsful to eight, may be taken two or three times a day; or a DECOCTION OF THE WOODS, made of guiacum, or lignum vitæ faw-dust, three ouaces; raisins of the fun, two ounces; soffafras wood share ed liquorice fliced, each an ounce; water, ten pints:---the guaiacum and raifins are to be boiled over a gentle fire, to the confumption of one half, adding towards the end the fasfafras and and liquorice; strain off the liquor, and having suffered it to rest for some time, pour off what is clear—a quarter of a pint of this may be taken two or three times a day, and all such as are diuretic, and cooling; hence some of those waters are of service, which abound with saline substances, that are gently aperient, and move the urinary passages—as Epsom waters, those of Cheletenham, Stoke, or Jessop waters, those of Pancras, Holt in Wiltsshire, Stretham, and some others.

All cosmetics and repellent lotions are dangerous; for if the acrimony cannot be corected or carried out of the habit, its most falutary situation must be external; and, perhaps, it may be the only means which nature has to unload the habit, or prevent the deleterious effects, which would be occasioned, were any of the more noble organs subjected to the depredation of humors so inveterate. To valetudinarians of this description a cool air should be recommended, and summer situation near the sea-coast;—all salted meats and sish should be prohibited; the body kept cool by saline aperients, and the mind unrussed by violent passions, and all excess in drinking refrained.

These constitute the first class of natural humors—the second

are the

PARTIAL.—Where they only affect some parts of the conflictution, and are not diffusive, but produce particular diseases from a peculiar species of morbific matter; and these are either generated in the habit spontaneously, or seem to arise from errors in diet, indulgencies, or irregularities with respect to the management of the animal economy; but these, if incapable of being eradicated, may be alleviated, and in some degree prevented.

The FIRST of which we shall mention is the gout; respecting which, though so painful, so dangerous and common a malady, I believe little doubt remains but it may be weakened in its attacks, even in those who have been long subject to it, by temperance; that is, by properly regulating constitutions consistent with the powers they posses: and I am sirmly persuaded it may be prevented from returning in the younger class of mankind, would they, on its first onset, prescribe to themselves and follow such regulations, as experience has, in many similar cases, proved to be conducive to these ends.

Adhering strictly to a milk diet has in many cases put a stop to returns of the gout; and regularity of living, with proper exercise—abstaining from wine and high-seasoned dishes, pickles, and other incentives, that stimulate the appetite, and occasion men to overload, and weaken the tone of the stomach, and digestive powers, have rendered this malady infinitely more mild in its paroxysms. Men, with this propensity to the gout, should avoid every excess that has the least tendency to reduce the habit below the proper standard of health—either in eating, drinking, or venereal enjoyments: for it is by the slavish and constant pursuit of these particulars, and the great indulgence which they allow themselves, that we see so many martyrs to gouty devastation.

Early rifing, moderate exercise, and that daily; bland mild food: abstinence from inebriating liquids, or a very moderate use of them, as also of concubinage, will ever be succeeded with such consequences, as will amply repay us for philosophic forbearance.—People of this constitution ought to refrain from weighty cares—the labours of the mind—much thought, anxiety, and solicitude: they should avoidall vexation, particularly as no thing disposes more to bring on fits of the gout, by occasioning crudity, and indigestion, from weakening and rendering the action of the stomach too torpid.

Various modes have been recommended for preventing the accessions of the gout—but what seems to have gained credit from the experience of several intelligent men, is the use of sulphur; of which a drink is made by impregnating water with a proper proportion of it, and this has proved salutary, in not only mitigating fits of the gout, but some say of totally preventing their return. Indeed if we consider the action of sulphur on the habit, we shall not be averse to think savourably of its use.

Dr. CULLEN fays, "It is certainly a mild and fafe cathar"tic, never producing any confiderable evacuation, but keeping
"up the natural excretion by the intestines, without any irritat"ing or heating effect."—And Dr. LEWIS—"That pure ful"phur, in doses of from ten grains to a dram or more, gently
"loosens the belly, and promotes perspiration; it seems to pass
"through the whole habit, and manifestly transpires through
the skin, as appears from the sulphureous smell of those who
have taken it, and silver being stained in their pockets
to a blackish hue, as by the vapour of sulphureous soluti"ons."

But we must observe in this, as in every other constitution, we must be directed in our specific course by the particular nature of the habit, according as it tends to one or the other, which we have before specified. Hence in this case we must sometimes enforce an abstemious regimen altogether from animal food—

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fometimes allow its moderate use, proportioning the degrees of exercise to the degrees of tone, or strength of the system, always prohibiting the use of wines and other fermented liquors, except in cases of great debility, or long habit; and preserving the strength of the stomach and digestive organs.

2d. RHEUMATIC.—In these, the same rules will hold good as in the former, and not be attended with dissimilar effects, and those very often more certain; for it has sometimes been prevented by wearing a slannel shirt, which keeps up an increased degree of insensible perspiration, and using the cold bath or sea-

bathing without interruption.

yer fee affect the natives, called the PUTRID SCURVY—by exercife, warm cloathing, drinking acefcent wines, and living chiefly on fresh vegetables, or eating freely of them, will be prevented. It generally affects those who live on sea-coasts, and feed on fish, and failors:—hence four crout has been considered as preventive. I have heard captains of some ships say, great benefit has been derived from vinegar, and they give it the preference to lemon or lime juice—why, I know not, unless from the saccharine substance in vinegar, a degree of fermentation takes place, and affords some portion of sixable air, from whence possibly some antiputrescent effects may be produced.

4th. Where we have reason to fear a scropbulous taint, or the seeds of that disease called the king's evil predominate in the habit—those means exerted, which give strength to the solids, begun in time, bid sair to act as preventive in this case; at least hinder the offensive matter from producing its unhappy effects in

a violent degree.

Living in a free country air, particularly on the fea-coast, taking exercise and nutritious diet; moderate use of wine and a course of gentle chalybeates, or drinking the chalybeate waters

once or twice a year, might answer the intention.

those constitutions, we have said, are called bilious, and have often a bitter taste in the mouth. The stomach and bowels of such should be always kept clear, by taking aperient medicines every now and then, and such as are not likely to leave the body costive after the operation. In these havits, aloes and soap are useful, castor oil, saline purgatives—as Glauber or Epsom salt, or the natural purging waters—as those of Thorp-Arch—Northaw—Colchester—Dulwich—Epsom—Action—and Cheltenbaut—Fat and oily substances should be sparingly, if at all thrown into the habit. Exercise should be persisted in, and some species of N 2

Medical Society of the County of Queens, Inc. 112-25 Queens Boulevard, Forest Hills vegetable food preferred to any other, as the dandelien—endive—and fuch like.

6th. The stomach and bowels are apt to be loaded with different kinds of noxious materials, called faburra—and these are either acid, rancid, or viscid. In all constitutions that have one or more of these particular tendencies, they generally arise from weak, digestive powers. Emetics and purgatives are now and then to be prescribed on that account, and those things which give

force to the weakened organ.

If the acid is most prevalent, which will discover itself by sour belchings and heart-burn—animal diet is most proper; crude vegetables, milk, butter, and other oleaginous substances should be foreborn, and also fermented liquors; the most proper drink is water alone, or warmed with a little ardent spirits, or having ginger insused in it—stomachic bitters with elixir of vitriol, or bark; absorbent powders, as hartshorn burnt and prepared, chalk, magnetia, are useful for immediate relief. In all relaxations of the stomach we must aim at strengthening its tone, preventing fermentation, and promoting the expulsion of its contents;—the alkaline waters, as those of Upminster, Brentwood, Seltzer, and Tilbury, may be recommended.

If the eructations thould be rancid, or occasion a putrid, offenfive taste, called nidorous, like that of bad eggs, and nausea attend, with the throwing up of liquids, that will blaze in the fire like oil; a diet containing a large proportion of acescent vegetables will be proper, with a very sparing quantity of butter and oil—made dithes should not be allowed, nor rich sauces, or much gravy—acid fruit, such as are ripe may be indulged in, and water

is generally the propered liquor to drink.

But if the matter should be viscid and ropy, that is there generated—such things as will assist in dividing in carrying it off, are the most eligible—as calomel and rhubarb occasionally, or aloctic purges—elixir proprietatis with bitters, or pilulæ Russi with Venice soap—exercise, chiefly riding, is necessary, and all things which have in their own nature too tenacious a viscidity, such as puddings, thick gruels, potatoes, should be avoided—the slesh or juices of older animals are preserable to those of the younger tort—and also vegetables of the warmer class, mustard, horse radish, water cresses, &c.

And in all cases where the digestive powers are too languid, where there is not too great an acrimony of the humors, and the habit is not liable to be heated from slight causes;—chalybeate waters, such as Pyrmont—Tunbridge---Hampstead---Islington,--- and the sulphureous, as Buxton---Bath---Aix-la-Chapelle---- Harrow--

Harrowgate --- and Llandridod, will always promote fome good purpose in this respect, without being in others detrimental.

But sometimes the lungs will be subject to be loaded with vifeid, tough kind of phlegm, in order to prevent which, the mode bove laid down will be highly conducive, and what will conribute much towards being more fuccefsful--- are emetics taken

occasionally.

§. 3. Besides what we have above described, there are fluids which get into the habit from contagion or infection, and will produce disease by the action of their morbid matter, if not prevented, before they have manifested their effect --- and these we all

ACCIDENTAL .- The FIRST of which we shall take notice of, is that creative of the lues venerea - or pox; and where there s strong suspicion of having had commerce with an infected obect, the malady may be prevented by fuch applications, as will wash off all the natural mucus of the parts, and thereby carry way the virus, or venereal poison, which lies entangled in it: ind these are solutions of the caustic alkali; fost or common soap, corrofive fublimate, &c. in water, with which the external parts hould be well washed, as soon as may be after coition, at least within the space of fix or eight hours; and some should be inected within the urethra; but great care should be taken not to nake the folution too ftrong, left the parts should be excoriated, ind inflammation brought on by that means, with its painful and lifagreeable confequences. It will be fufficient if the folution is of fuch a firength only, as will give a flight fenfation of pungeny on the tongue or infide of the lips.

The SECOND—the poison of the viper.—The ill consequences generally attending the bite of vipers, by which means they pour heir virus into the wound, and so communicate it to the habit, have been prevented, it has been afferted, by the immediate apdication of the fat of that reptile to the wounded part .- It was, n the more early periods, confidered as a specific in that caseut olive oil has been known to answer the purpose full as effectally .- These means may also be useful in abating the pain origiating from the stings of wasps -- bees --- bugs --- gnats --- or preventng the effects from burns, or fealds, before the fkin is raifed into lifters; but the more effectual modes are the immediate appliation of spirits of hartshorn, or of sal ammoniac, or spirit of wine,

nd continued fome time.

The THIRD.—The faliva of a mad dog, or another mad animal. ommunicated by a bite, gives rife to the most dreadful of all uman calamities; and its effects, if not prevented, generally rminate fatally: but these have been faid to be warded off, by

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using the cold bath, and persevering for some time in taking the PULVIS ANTILYSSUS,* a dram and a half of which was to be taken in half a pint of cow's milk in the morning, on an empty ftomach, for four mornings together, and occasionally perfifted in, so much recommended by Dr. Mead-or applying to the Ormskirk medicine; but these have so repeatedly failed, that I should not depend upon them-but where people are strongly wedded in opinion to these compositions, I should advise their administration-but not till after the following mode had been completed:-Immediately after the wound was given, I would advife it to be fucked fome time, which may be done with the greatest safety, the mouth of the operator being guarded with oil, for his fatisfaction, and the faliva not swallowed; then the part, where it can, should be cut out, or burnt with a hot iron, deeper, and more extended than the wound itself ;-after which, the wound should be filled with mercurial ointment, and a blister applied over the part-kept open for fome time-and mercury thrown into the habit, fo as to raife, and maintain a falivation for some weeks. For by these means, the poison will be prevent: ed getting into the habit; and should a portion of it have made its way inwards, by the quick action of the absorbent vessels, in might be thrown out, by quickly and constantly promoting falii vary fecretions and excretion.

The FOURTH—The noxious particles, which by infection occasion malignant ulcers of the throat, putrid fevers, or dysentery—and which are generally ushered in with shiverings, sickness, and sudden loss of strength, have had all their consequent missioned prevented, by the instantaneous exhibition of emetics; and should these sail, so that the whole symptoms do not immediated by go off, a large blister applied between the shoulders has commonly removed them. Nurses, in the naval hospitals, have, it is said, from the most undoubted authority, by this mode presented.

vented mischief.

The FIFTH, and LAST of which I shall take notice in this place, are the putrid particles, apt to be taken into the babit, by perfons wounding themselves by dissecting of putrid bodies, or part mortisted--- and of which many instances have recently occurred where the unfortunate, though praise-worthy, curious inquirements have fallen sacrifices to the deleterious effects.

In cases where, under these circumstances, wounds occur, should recommend sucking the part immediately, and having well washed with vinegar; then the application of strong mercurial ointment, and mercurial purges, taken occasionally at proposintervals; for I know of no medicines which so effectually clear

the serous, and lymphatic system as mercury.—And in the intermediate days a course of antiputrescent medicines and diet should be persisted in—as bark—moderate quantities of wine—or vinous liquors—and vegetable diet—and bark may be very judiciously united with such other materials as promote perspiration, and these should be insisted on, and persevered in for some time, and I have little doubt but they would prove a security

from future danger.

Having now delivered fully what may be thought necessary for understanding the nature of constitutions in their simple, and mixed general state, and also peculiar, with the modes necessary to be purfued, in keeping them in an healthful flate, or of preventing dileases as far as respect these particular points; we would observe to the young practitioners, or those who thirst after medical information, or love to engage in practice from motives of philanthropy, where medical advice may be far diffant, that the eye should not only be carried to these constitutional points in cases where prevention of diseases is studied, but particular attention should be paid to them in diseases, wherein they will be found altered from their natural state, and some different combinations taking place from the effects of the malady itself; which deviations, when discovered, should regulate the conduct; and it will be perceived that medicines highly proper in the beginning of a complaint, are as improper in the conclusion, and so on the contrary, and this alone owing to the alteration made in the habit: for instance, in instammatory remittent fever, where at the onset, the constitution is possessed of great sirmness-frong vafcular irritability-and equable nervous incitability-to give bark would be madness, little less than butchery, because it would too much increase the already too heightened powers, and occasion the worst consequences: but at the latter end, or during the progress in its later stage, the same is a cure, owing to the constitution being altered by the violence of the disease at this time; for it loses its firmness-increases vascular weakness-and induces too great nervous incitability, all which are conquered by bark augmenting the tone of the system. But as we have examined particular conflitutions in an healthful state, and pointed out their variability, and spoken of some points necessary to be observed in our conduct, in order to preserve them in that state, we shall now make the application on a more extensive fcale.

SECTION V.

NECESSARY CAUTIONS respecting FOOD, EXERCISE, &c.

TATHEN men are in a state of perfect health, the moving powers of the constitution act in unifon with each other, the force of one being in exact proportion with that of another, fo that they perform their functions with eafe and regularity --neither exercifing themselves superabundantly nor defectively; the machine is lively and active --- the thinking faculty alert and clear -- the blood and humours are bland, moderate in quantity, and free from acrimony, which may be diffressing --- the appetite is good -- the digestion fusficiently strong -- all the secretions and excretions performed in due order --- fleep found, and refreshing --- and no perceptible defect manifests itself in any of the vital, animal, or natural actions; and this fituation of the machine is the greatest bleffing human wishes can defire, and empowers man to enjoy every pleafure of moderation and propriety, within his reach, with the greatest zest and inward satisfaction. But unfortunately, men under these circumstances often plunge themselves into the opposite extremes, by imprudencies and indulgencies; for it must be observed, that the most perfect state of health is not far diffant from disease, and very often trifling indiscretions lay the foundation for great mischief, if the consequences occuring from thence are not foon put a flop to; which, indeed, by a little care and attention, might frequently be prevented ;---certain rules for which we shall endeavour to point out, which one would scarce think necessary, if we consider the latitude given by CELSUS, to those in health, did not experience every day convince us, that the documents he lays down require fome reftrictions .- He fays, " A man, who is healthful, and at his own dif-" posal, ought not to be confined to any particular regimen; as " he wants not the advice of a physician, his mode of life should " be varied; -he should sometimes reside in the country, some-"times in cities, but oftener in the former; -he should now " and then fail, hunt, or live at ease, in perfect rest; -he should " use sometimes the warm bath, sometimes the cold; -eat, in " common, all kinds of food; -fometimes be in company, and " feast himself; sometimes live retired, and absteniously; now " and then take more or less nutriment than might be exactly pro-" per; but refresh himself rather twice with diet, than once a " day, and that in a plentiful portion, if it can be concocled :-- but " though exercise and food in this mode are necessary, in inordi-" nate

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"nate degrees they are not ferviceable; for bufiness, preventing the exercise, which may happen on account of attendance in various avocations, the body will be injured, as hole which receive nourishment in their usual way, will quickly decay and become disordered."

Though this latitude is given, we must observe it is only to a man in full vigour of health; but even here, during the slate of allowed indulgence, some caution becomes necessary, especially against every species of excess; for it is a known and allowed truth, that excess of every kind, whether corporeal or mental, disorders the human frame, and lays the foundation for a variety of complaints; even in those things, a moderate share of which is necessary for the support of our machines—conduces to invigorate our mental powers, and promote our pleasure.

In eating and drinking, this is an obvious truth, though in the latter it is much fafer to exceed than the former; in proof of

which, let us examine them.

We find that by drinking a quantity of vinous and spirituous liquor, in which all those which cause included; the vital principles, or that which supports life, and renders the machine active, is rendered extremely powerful by the stimulus applied partially to the stomach, or more dissurively; the spirits are elevated, sometimes even to madnels; a more than common stress is laid upon the constitution; the habit becomes fuller so long as this stimulus continues, and liquor is poured into the stomach; which stimulus ceasing from constitutional satigue, the system seels too much loaded and enervated; the stomach relaxed, and all the vital powers incapacitated to perform their functions properly: hence pain, sickness, heal-ach, languor, or a temporary sever, perhaps after a debauch, the whole, or most part of these inconveniencies are experienced.

To remedy which, lying in bed and plentiful dilution with watery liquors—as weak tea—fmall broth—thin gruel, &c. should be persisted in, to promote perspiration; or recourse should be had to riding on horseback, by which means the superabundant load will be carried off, and the body restored to its proper rone. Either of these methods may be pursued, as is most agreeable to the constitution: the former I should recommend to plethoric habits, and those of a strong stamina; the last er to the more relaxed whose stomach is generally in a weaker state. Sometimes taking plentifully of the following:—One dram and a half of salt of tartar, called now prepared kali—four table spoonfuls or five of lemon juice—water which has been boiled, half a pint—brandy three or four table spoonfuls, and this sweetened with sugar: or if the stomach is very weak, a dram and a half of aro-

matic confection, or two table spoonfuls of tincture of bark may be added; -a tea cup or more of which may be taken often in the day :- or what is better, the falt of tartar may be diffolved in the liquid, without the lemon juice; and after every fix spoonfuls drank, let a table spoonful of lemon juice be taken, and this repeated in the same manner :- or some warm and grateful cordial, as ratifia-ufquebaugh-brandy, mixed with peppermint water, may be administered, which will give immediate relief to those whose stomach is affected with nausea, sickness, or oppresfion, a common practice with men devoted to liquor; but this should be had recourse to only on very particular occasions, for it is a custom may be attended with disagreeable consequences, if too frequently used, because the stomach, once accustomed to any particular stimulus, requires the constant repetition of that stimulus, which, in time, deftroys its tone, and lays the foundation for those maladies which arise from inebriation; and it is this which often induce men to turn drunkards: low spirited women, frequently from taking things of this fort to exhilirate their fpirite, are converted into shameless sots, and become the disgrace of their own fex, and contempt of ours. However, this furnishes one proof of the power which the stomach contains over the fystem in general; as by the stomach being stimulated, all that laffitude—languor—naufea—ficknefs—and every uneafy fenfation attendant on its relaxation, are removed, except heat.

By excess in eating, the stomach is apt to be over-distended—the digestive powers weakened—the vessels filled with crude chyle—respiration retarded; hence a sense of weight at the stomach—pain and slatulence—propensity to sleep—inactivity, and fullness of the head---obstructed viscera---jaundice---dropsy---asthma---apoplexy---and a number of chronic complaints, if the

practice is continued.

But if an error has been committed, and especially if that has been with high-seasoned dishes, a draught of cold water, acidulated with elixir of vitriol, taken soon after eating, will relieve the stomach from that weight with which it is often oppressed, assist digestion, restrain fermentation, and prevent statulency; from

hence, perhaps, the use of ices may be approved.

I remember an account given me of a dignified clergyman, who was so great a slave to his appetite, that he was obliged confiantly to have recourse to some application to prevent indigestion, he gormandized so abominably; as a proof of his gluttony, I cannot give it a gentler term, the following is recited of him: He was invited to dinner, where every rarity the place afforded, was provided, of which he eat in his usual manner; but the gentleman, with whom he dined, knowing he was extremely fond

of venison, and being well acquainted with his disposition, referved the haunch in succession, of which he had advertised the rest of the company; on its appearance, the already satiated divine, after expressing his surprise at not being informed of this luxury before, retreated into the yard, disgorged the load he had before swallowed, and returned to the attack of the venison, with his accustomed vigor and prowess, to the astonishment of his companions. Hence we may infer, vomits in many cases are also serviceable; however, at an early period, he became the victim of disease, and died of a dropsy, succeeding an irremediable jaun-

dice, brought on from this course of living.

With regard to our food, however, in quantity and quality, it should be properly proportioned to our exercise. The farmer, who follows his plow, and is perpetually toiling from morning till night, could not exist on food appropriated to those who purfue not the severer exercise of the body; his diet mut be of the coarfer kind, fuch as old milk cheefe, falted meats, bread made of rye, potatoes, &c. &c. and these in pretty large quantities. This food answers to him the purposes of nature, keeps his body in a state of health, because his digestive powers are very active. and form from these materials good chyle, on account of the occupation in which he is engaged; which in the more delicate and less laborious, or indolent, would occasion great indisposition. In Herefordshire, and some other counties, men are not allowed fit for fervice, nor get hired, without, as it is termed, they can bolt bacon; that is, swallow it unmasticated, cut into pieces, about an inch and an half, or two inches long, and half an inch fquare, or thereabouts, and this in tolerable quantities; and this is done in order that they may attend closely to their labour, without spending any time in taking in nourishment for their necessary support; for bacon being fat, and of a firm texture, from being hardened by falt in its curing, will lie a long time in an undigested state, by which means the cravings of the appetite are kept off, and the strength supported.

But should abstinence be unavoidable, a man, during that period, should not undertake any laborious employment; as in that case, the consumption of the thinner sluids would be too great, the solids would be rendered weak for want of proper support, and the liquids disposed either to form concretions, that is, degenerate into too thick masses, or run into a state of putrescent a-

crimony.

There is one custom to which the generality of mankind are apt to be addicted; when they have suffered fatigue, and that perhaps severe, from hunting, shooting, cricket playing, walking, &c. they commonly indulge their appetites by eating coplously

of folid food; and think it one of the benefits from thence arifing, that they are enabled to throw down fuch a load of grofs materials; nay, not content with this, they make them float in porter, ale, or some other viscid liquor, and afterwards indulge themselves with a jolly bottle; and this they think supported by reafon, for where the machine is weakened, it feems natural to fuppofe it requires much refrethment. If we examine the effects of fach indefereet conduct, we cannot helitate to pronounce it erroneous, and condemn the practice: for after eating and drinking, in this manner, they grow dull and heavy; and general laffitude comes on; the pulse grows quick; the face flushes, a temporary fever fuecceds; fleep is diffurbed; profule fweats break out or a too great general heat, with dryness of the fkin, is perceptible; the mouth is clammy; that is an attendant; and they life in the morning weary, and afflicted with pain, or fliffness in the joints, wanting that alacrity and activity they ought to pof-Icis, from the night's indulgence. Indeed, oftentimes a foundation is laid for infinitely more ferious complaints, according to the pe u fir nature of the tever; pay, fometimes immediately brought on, fach as inflammatory or flow fevers, local inflammations, rheumatifin, &c. Nor can it be otherwise, for all the vital, nat ral, and animal powers are weakened, and a load laid on nature is her debilitated flate, for her to conquer, before the valcular tyltem has recovered its flrength fufficiently for the performance of fuch an office.

Were they to confine themselves to liquid food, or that fort readily digetible, such as weak broth, milk, light bread pudding, &c, with wine and water for their beverage, all these inconveniencies would be prevented; the body would only receive that nutriment it could readily digeth, and the vessels from not being over distended, and their actions too powerfully solicited by a constant stimulus, soon recover, by rest, their natural elasticit; then with impunity might they pursue their session.

It is also prejudicial after suffering severe bunger, to eat immoderately—or after a full and constant feeding, to fust absolutely. Neither is running into the extremes of rell and labour succes-

fively, by any means attended with fafety.

The conditution may be brought to bear many alterations, but these must be accomplished in a gradual manner, for sew of any consequence happen, but they occasion an alteration in some of the solid of the system, producing either a greater degree of extension or contraction—consequency also a change is created in the sluids: and if any desect thould happen in one part, from the mode of producing those changes, nature provides against such desect by adapting some other parts to the performance of their

their duty, in a greater or a less degree, or a duty that is not naturally intended for them; as we see in the decrease of one evacuation, it often promotes the increase of another: and vessels appropriated to the discharge of one shuid, will often emit another, as in cases of obstructed menses, where blood has issued period cally from the eyes and lungs; so that all sudden changes may be productive of a variety of complaints, not only on account of the parts being unaccustomed to perform their proper offices, and from want of the being rendered too weak, but want of the for nature to make suitable dispositions, to alleviate distress a siling from sudden contingencies.

Therefore, it a man has laboured under severe hunger, his sto-mach will be in a state of contractility, lessened in its capacity more than usual; loading it consequently too heavily, will either occasion vomiting, or uneasy sensation of weight: heart-burn, perhaps inflammation, or a spasm of both the orifices, or either of them---or michief might be created in other parts of the machine, from filling the vessels, which must also be in too contractile a state, too sulf of crude ill formed chyle; for in this situation, neither the peculiar juices of the liver---sweet-bread—nor those of the stomach usels, can be separated in their proper quantity, nor will be endowed with their natural qualities, sufficiently perfected for the business of digestion—all which are absolutely necessary for forming the nutritious shuid in a falutary state.

And what on the contrary will happen, if a man, after full feeding, filling the habit copiously and constantly with liquids,

thould submit to absolute tatting?

As it is necessary to keep up a plenitive in the vessels, that the sluids may preserve their power of reaction, as a stimulus assisting powerfully the promotion of vascular contraction, and thus maintaining an easy and equable circulation, we from time to time throw in food to supply the defect of the sluids, which arises from the constant and natural action of the vessels; and this not only constitues a requisite equilibrium, or necessary equality in the powers of the circulatory system, but also supports a continuance of pressure upon the brain, which is very material for the performance of its duty in the body; since we find in proportion as that organ is deprived of that pressure, it performs not its functions regularly—hence convulsions—faintings—death; and we also find the more plethoric a man is in a state of health, generally the more warmth he has in his habit.

Now if a man is filled with fluids from enting and drinking inordinately, the constitution will act under the impulse of increased stimulus.

Sudden and total abstinence therefore would prevent the regularity of the brain's action, and render the system languid from withdrawing the stimulus, by which it had been actuated—the vessels would collapse—circulation would be carried on with disticulty—the heart oppressed—and in the first instance, sanguinary concretions might be formed. But should the cause be permanent, the humors, for want of fresh supply of new suids, would grow sharp and acrimonious—general irritation take place —a fever ensue—an instammation of the brain come on—and a delirium close the scene.

Having examined the effects produced by fevere hunger, and gratification of the appetite copiously and constantly, and suddenly changing from one to the other; let us now examine the confequences of the extremes of rest and labour, succeeding each other in the same manner.

And first---What will be the refult if total rest should succeed hard labour?

The constitution being habituated by custom to any particular practices, especially where the motion of the solids are principally concerned, is so used to the impressions made by those practices, that they become necessary to its welfare. Hence a man accustomed to hard labour, enjoys a better state of health, under that circumstance, than if he was to fall entirely into habits of indolence; for the system being divested of those particular impulses, usual to be given, would experience a degree of torpor, or sluggishness—the sluids constantly increased to supply the dispendium or consumption, having no occasion to be appropriated to that purpose, would form collections in the vascular, glandular, and cellular system—and hence would arise a variety of complaints from sullness, and corpulency—and a foundation be laid tor numberless chronic disorders.

And we may observe many men, retiring from avocations which require bodily activity into the arms of idleness, though possessing their health under former situations, plunge into disease-- and numbers of them die apoplectic---paralytic---asthmatic---or dropsical.

But, on the contrary, if men apply to hard labour fuddenly, from a flate of absolute rest---the constitution will become languid, from want of proper support, and be affected with different kinds of consumptions, not of the lungs particularly, but gradual wasting away---dropsies---fevers, &c.---for the vessels not having been solicited to strong action, and the sluids, though abundant in quantity, not properly elaborated to repair the loss severe exercise occasions, the former will be weakened by a sudden increase of action, and want of adequate supplies;---while

the

the latter may form congestions in the head, or internal parts, by being pushed suddenly forward, and too violently, and soon acquire a dangerous and noxious acrimony from crudity, or desi-

ciency.

But though extremes in these particulars are highly injudicious, becoming the prolific parents of many maladies, yet pursued under proper limitations, are replete with innumerable advantages---for exercise and rest are the certain supporters of a
pleasurable life, as far as it depends on general health---Hence
must we allow every species of the former very beneficial---but
then it must be limited by the strength---for when in proper
proportion it gives constitutional vigour, and muscular simmess
---while inaction renders the body listless, and relaxed---and,
indeed, if exercise is pursued to the distress of the natural powers, it creates a number of injuries, which its judicious use would

inevitably prevent.

Belides we must observe, that all exercise, of whatever nature, whether walking -- running -- fencing -- riding on horseback -or in a carriage --- playing at cricket, tennis, &c. should be adapted to the prevention of any difease the person so using it may have a tendency to fall into--- to those liable to fall into gravelly complaints riding on horseback should be recommended ;--- to have collections of phlegm upon the lungs, reading aloud --- finging ; --those subject to the gout, walking ; -- indigestion, or visceral obstructions, riding; subject to catch cold, walking ; --- those of flrong muscular stamina, having a fluggist circulation and coldness, playing at cricket or tennis ; --- to by fteric difeases, or melancholic affections, where the mind broods too much over imaginary calamities --- driving a carriage -- shooting --- hunting, or some, where their reflection may be withdrawn from unpleasant objects, &c .--and those exercises which are more or less violent, should be advised according to the ends we wish to promote ; --- for the grand business of these are to increase the tone of the solids---make the different glands perform their functions; promote insensible perfpiration; and prevent the fluids from becoming detrimental to either by their thinnels, viscidity, or acrimony.

Exercise may be divided into these three degrees --- the

STRONGEST of which are,

First---Playing at tennis, cricket, fencing, and running, &c, where great mulcular exertions is necessary.

Second --- Walking, reading aloud, riding on horseback, or in a

carriage:

Last---Sailing, chamber-horse, dumb-bells, and frictions:
which last are appropriated to old age, where muscular force
begins to grow effect; and are necessary for the preservation of
health.

health, by promoting the circulation of the blood, and motion of

the fluids, through the minute veffels.

But fleep is esteemed the grand preserver and restorer of health, such as is well-timed, and properly proportioned; for some conflictations require much more than others.—It is one thing the most essentially necessary to life, as this is the time when the system is freed from all incumbrances, undisturbed by mental restlections, which often disorder the animal economy, and prevent the human frame from asting, through all her departments, with equality and full force, in which the nutritious particles, properly perfected by the operation of the constitution, or chiefly applied to repair the waste, and replace those which have been abraded, and washed off by the labor and exercise of the day.

Thus fituated, the moving and assimilating powers of the body have only that business by which the parts are renewed to perform, and the vessels are properly disposed to receive such additions as are required, and co-operate to that end; but if the machine is too much indulged in this particular, it becomes much disposed to be corpulent, languid, and weak, and feel a number

of inconveniencies from theace arising.

With regard to the time necessary for the producing the good effects it is various in different constitutions: six or seven hours rest is sufficient for many adult constitutions, though some require nine or twelve.—A lady, whom lattended, of a relaxed and delicate habit, subject to hysteric affections, and an acrimonious state of humors, though by no means indolently disposed, was advised to rise early, and gradually lessen the time the used to devote to her bed, which was constantly twelve hours, and which was supposed to contribute much to the relaxation of her habit —she made the attempt for some time, but could never enjoy so comfortable a state of health, as when she indulged herself in her usual custom.

Still in many this indulgence enervates the fystem---renders them hypochondriacal and hysterical---relaxes the folids---difposes the humors to be viscid, or acrimonious---blants the vital

powers --- and brings on a difeafed, and early old age.

But, notwithstanding, we will allow that nature herself requires, in different constitutions, such variability;—the custom of sleeping long, and indulging in bed, is very frequently the refult of indolence, early induced, and long encouraged:—such a disgraceful waste of time should be discountenanced, and the habit conquered, which may always be accomplished, in the early and middle part of life, where it arises not from constitutional necessity, naturally implanted; but it must be done by slow degrees, for all extremes of change are detrimental.

It

It is the practice of numbers to indulge themselves in sleeping in the day-time; some immediately after dinner-ftill, notwithstanding what has been advanced by some authors, that sleep is useful even at those times, as it promotes digestion, I think the rule, very often, more falutary in the breach than the conformity; for it creates giddiness and languor, especially in those addicted to fludy-deadens their thinking faculties, deftroys perfpicuity, and clouds the imagination; but if no fuch effects are perceived, and people find themselves recruited, alert, and active, it may be allowed.

In proportion as the powers of digestion are more or less strong in different ages, with respect to DIET, they have claimed dif-

ferent kinds.

To the younger class of subjects, and children, therefore, viands of the milder, and fofter fort, are confidered as the most proper, as being more readily affimilated.

To grown perfons, those which are more substantial and folid-

and

For old people, it has been thought adviseable to retrench of their folid, take that nourithment which is more fluid, and increase rather in drinking; because they not only digest less freely, but the machine approaches more to dryness, from a defici-

ency in their juices.

Were the regulations here laid down observed with tolerable attention, and those adverted to which have been spoken of, when treating of the Non-naturals, adapting them to the peculiar circumstances of different constitutions, a plan may be formed by every individual fufficient to contribute towards the continuance of health; nay, be fully adequate to infure its prefervation, if closely purfued.

Thefe rules, though, are calculated for those who are arrived at the years of maturity, or at fuch a time of life, that they may become subject to the directions of others, who have made these things their study, and have from thence acquired a competent

knowledge.

But before we conclude this part of our work, it feems proper to take notice of what is necessary to be done in the infantile flate, in order to promote for our offspring, in their tender years, the fame benefits-and this leads us to confider the good or evil confequences of proper or injudicious Nurling, which we shall make the subject of our next Section.

SECTION VI.

On NURSING.

IF we look into and examine the bills of mortality, to be in-I formed at what ages the greatest number of people die, we shall find that half of them go off under the age of five years :-to what are we to attribute this? That nature is defective in her operations, and that half of mankind are born in fo imperfect a state, formed of materials so bad, or so defectively united, that they cannot support the operations necessary for the continuance of their existence any longer? Or are we to conclude that in that period they are subject to more fatal maladies, and die the victims of disease in greater proportion than at any other time? Were fuch conclusions to be formed, we should be accufing the Omnipotence of Providence, or arraigning the principal Agent of Heaven, NATURE, of executing her office wantonly, or improvidently. This, then, cannot be the case; for if we look through the vegetable or mineral kingdom, we shall never find that any of their productions are subject to be destroyed, merely because they are in a state of primary existence-or in the brute creation, because they are young. When destruction happens to them, it is from being placed in fuch fituations, and under fuch circumflances, as are not congenial with their peculiar nature:- fo happens it, I have no doubt, with the human species that this mortality in the infantile flate is owing to bad nurfing, where, by these means, the operations of the conilitution are impeded, or perverted from the indolence, ignorance, or superstition of those allotted to rear the infant in its tenderer years- and it is affonishing, that, in a business requiring the utmost simplicity for its success, so many, and such great errors should be committed, as to become too certainly, and too commonly fatal, particularly in children born of delicate and weakly parents; who, partaking of their constitutions, are liable to be feverely afflicted from indifereet management, and want flrength to flruggle through calamities originating from that fource.

Let us cast our eye amongst the hardy sons of the rustic race—compare those with the offspring of the more refined and polished—what a difference in appearance! Amongst the former, we find the children sirm, robust, lively, healthful, active, and strong; amongst the latter, weak, puny, relaxed, and sickly. Amongst

ment

the former few die, but from the accession of unavoidable illness, as measles, small-pox, chin-cough, dentition, &c. Among the latter numberless expire from gripes, loosenesses, hectic severs, worms and convulsions.

But there are greater evils than dissolution in this state from this cause; for from hence disease itself is generated, and so fixed in the habit, that the life of many is oftentimes one continued scene of misery; -nay, I have no doubt but, from this fource, the temper and disposition acquire so fretful a cast, and oftentimes is fo foured, and rendered so petulent and peevish, that, whilft they do exift, they continue unhappy and miferable in themselves, as well as troublesome and offensive to their attendants and their affociates; for it has been allowed, that the faculties of the mind, very often depend upon the organs of the body; for when these are in a tolerable perfect flate, so as to perform their separate functions properly, the thinking part is more alert, active, and cheerful; and good-humour the confequence of fuch freedom-whilft the contrary effects are produced, when the organs are diffurbed, or difeafed. To avoid, then, which difagreeable effects, it is our bufiness to lay down fuch regulations as are founded on rational principles. supported by experience, and which confift in bringing up children in a plain and fimple manner, the mode most confonant with nature; and if we observe the method she invariably purfues, we shall find that the delights in simplicity alone. View but the brute creation, and those of the feathered race-fee what occurs in them; examine what method they, rearring their young, inflictively adopt, and mark their fuccess; cleanliness, proper feeding and exercise, comprehend in these the infinite wisdom of her laws; and if weadd judicious cloathing, fo should they thatof the human species.

As foon as quadrupeds bring forth their young, the first care of the mother is properly to clean them, and keep them perfectly warm, till all the moisture is exhaled from the surface of the body; so happens it with birds: after which the young sleep for some time—almost constantly for the first few days; in brutes, supported by the mother's milk alone, which is ready in the breast at an early period, the young soon walk, and become playful and sportive, by which means they procure to themselves sufficient exercise, and in this manner are brought up with ease and certainty: with respect to cleanliness, the feathered race do the same, never leaving their young after they are hatched, till they are periodily clean and dry; the mother, as soon as the egg is freed from the young, placing it under her in the warmest part; but as they are divested of milk, in order to nourish them, if of the granivorous kind, she endeavours to render their nutri-

ment the most easily digestible, and as nearly sluid as possible, by picking up grain, macerating for some time in her stomach, and then throwing it up into the mouths of her young, who, whilst feeding, slutter their wings, and agitate their whole bodies in a surprising manner, which serves as a species of exercise, and this universally prevails in all such as lay in the nest some time before they can use exercise by slight, or running about, and feeding themselves.

In raising up our young, we therefore cannot do better than imitate these laws, so universally prevalent, of which we shall

take a general furvey; -which confift in,

1. Cleanliness, 3. Exercise, 2. Cloathing, 4. Food,

under which all will be included necessary for the proper conduct of those who make nursing their particular business, or undertake that office from necessity or inclination.—And first we

must observe,

That numbers of children, as foon as they are born, are covered with a mucus, or white fordes, which ought to be washed off with foap and water; but should it be very adhesive, there is no necessity of rubbing the infant feverely at first, for on the fecond dreffing, if any remains, it will readily come off; and long continued or violent friction is apt to create uneafinefs, fubject the child to catch cold, and produce inflammation; and as cold, at this very early period, occasions several disagreeable confequences, particularly fore eyes-cough-fluffing at the breaft-gripes-loofenefs-or floppage in the note, at the birth, it should be wrapped up in a slannel receiver, lined with fine old linen, and kept from the contact of the cold air, for a quarter or half an hour, before it is cleaned, and this should be performed before the fire; indeed, before the infant is taken from the mother, it will be prudent to cover the eyes by a foft linen bandage, and fasten it at the back part of the head. As soon as the child is cleaned, and well dried, the naval firing should be carefully folded up in a piece of scorched rag, in two or three folds; for this not only prevents the infant from running the rifque of being griped by the coldness of the naval string, but absorbs the offenfive liquid which is generated by its running into a corrupt Hate.

It is the custom next for nurses to rub the child's head extremely well with their hand after washing, and apply brandy or some ardent spirits at the same time, and then forcibly press the head in different directions, under the notion of aiding in joining the bones, where the sutures are open, a contrivance of nature, apparently that in labour the dimensions of the head may be lessened by the different bones riding one over the other, and delivery, by these means, be facilitated; after which the child's

head is tight bound up with with a forehead cloth.

This over officion nefs is highly detrimental and derogatory to the intent of nature; for by prefling the head too forcibly, and keeping it in a confined state, prevents the proper circulation of the blood through the veffels of the brain, and brings on convulfions and other complaints from congestion; and all this without in the least answering the intent for which this absord custom is practifed. For the bones join not by the edges of them coming in contact with each other, but from bony matter deposited in the cartilaginous and membranous substance of the cranium, and forming a junction in this way, and therefore the head should be left entirely to itself, after being well cleaned, without the labour has been very fevere; then fometimes the vertex will be greatly fwelled by the long continuance of labour, occasioning great pressure upon the larger part of the head, and impeding the return of the fluids, by which the fkin on the vertex of the cranium will be so loaded with fluids, as sometimes to produce a tumor, not inferior in fize to a large egg, which may inflame and suppurate, as I have observed, particularly where imprudently managed.

Instead, therefore, of submitting the head to so severe friction, let it be bathed, where swelled, with brandy—arquabusade water—or some other ardent spirits; or rags, three or sour doubles, may be dipped in Goulard's saturnine water, mixed with about a fourth or sisth part brandy, and applied to the part affected; and then the head should be covered with a loose slannel cap, over which may be placed a linen one, tied under the chin only just so tight as to keep it upon the head: and this operation may be repeated once a day till the swelling subsides, which will com-

monly be in the space of two or three days.

Under the idea of giving strength to the child's back, and enable it to support itself, it used to be the practice, and still continues in some country villages, to swathe or roll the child very tight round the abdomen, with a very broad roller; by which means the circulation of the blood was impeded, the superior parts loaded, the peristaltic motion of the intestines, and the action of the abdominal muscles, hindered from properly performing their offices; hence gripes—convulsions—coughs—and general uneasiness. Instead, therefore, of this roller, a short samel petticoat, with a broad head should be tied round on the wait, only so tight, as that a singer will easily pass under it; so that if the child's belly swells, as it sometimes will from flatulence, it may experience no uneasiness: and if after this a long linen

gown is put on, the child will be sufficiently dressed, be persectly easy, and no obstruction occur to prevent nature performing her proper operations. But there is another error frequently committed with respect to what they think necessary to give the infant internally; therefore, as soon as it is dressed, they cram down its throat a large lump of butter and coarse sugar; or give it oil of sweet almonds and syrup of violets: or should the infant lick its lips, it must be fed with pig, that is, it must be permitted to suck the fat of that animal, in order to appeale, it is supposed, a sentation which arises from its mother's having longed

for fomething or another during her pregnancy.

Were there nothing but the mere folly and absurdity to be confidered as the refult of this practice, it would not be necessary to fay any thing to induce its forbearance; but these things are pernicious, inalmuch as they mix with the meconium, or humor with which a child's bowels is naturally loaded, prevents its growing fufficiently acrid to produce its purgative effect, or sheath the bowels from feeling the effect, and thus produce many complaints which load, oppression, and distension of the intestinal canal are apt to bring on: for nature seems to intend this meconium to clear, at an early stage, the first passages of the fordes which have accumulated there. If, therefore, it is determined to give fomething to the infant, a little castor oil, and fimple fyrup, will be the best, because it answers the purpose intended by the meconium. For if we consider the state of the infant during labour-the effects of the meconium left to itfelf-the time before the mother acquires her milk, and that its property is at first aperient, we shall obviously see the reason, why nature preferves this regularity in foliciting a discharge of fluids through the primæ viæ; and shew that if any thing is to be attempted, her plan ought to direct all our operations. For besides clearing the stomach and bowels of its contents, which, by continuance there, might produce disagreeable and dangerous effects, it feems intended to prevent the too free determination of blood towards the vessels of the brain, which might be in a weakened flate from the feverity of labour : for the brain very often fuffers great compression from the bones of the head passing through the pelvis; indeed it is often fo great, that the bones will wrap confiderably one over the other, and confequently the capacity of the cranium be much diminished; by which means the blood will be prevented from passing into the exterior part of the brain, which is thrown into the head by the arteries appropriated for that purpose, consequently the internal vessels will receive a more than proper quantity, and by being too much distended, of course be weakened, and that in proportion to the continuance and violence

olence of such pressure; in order, therefore, to prevent the mischiefs which would arise from such debility, if continued, and the succeeding accumulation, I conceive nature very wisely constituted purging, that the vessels may recover their due tone; and that this is one principal reason, I am induced to believe, from the first of the mother's milk always having a purgative

property.

But however, I think that the lefs any fort of thefe things are given the better. As foon, therefore, as the child is dreffed, and the mother laid in a clean and comfortable fituation, the child should be placed in bed by her, and both left to go to rest, which they will foon do, and fleep perhaps for fix or feven hours, by which means they will be refreshed, and recover in a great degree the fatigue they have both undergone : then the mother should be fed with some thin broth, or weak wine gruel, and a little bread, or fome fuch fimple materials; and the child, if the mother intends to nurse it, fet to the breast; notwithstanding what fome authors have faid to the contrary, under the idea, that as nature does not furnish any quantity of milk in the breast, till the expiration of three days or thereabouts, it is useless, and only teazing to the mother and child, to have it fet to before. This I am perfectly perfuaded though is erroneous, and often attended with difagreeable confequences, both to the mother and infant, disposing the former to febrile affections, and bringing on a milk fever, from pain created by diffention of the veffels of the breaft, and keeping the infant too long from that falutary food which nature has provided for it, and acts at first in a double capacity, as we have before specified; besides it supplies an opportunity for ignorant and over officious nurses to cram the children with a variety of dabs, and too viscid food; by which means a foundation is laid for a number of complaints, from loading and oppressing the alimentary canal, by such things as are unconquerable by the digettive powers of the infantile flate; hence arise crudities, acidity, flatulence, and convultions, which by a different management would be prevented. For by fetting the child at an early period to the mother's breaft, by the gentle flimulus on the nipple from fucking, the milk is folicited in a gradual manner into the breaft—the veffels are made by degrees permeable—the infant receives it at first in small quantities, adequate to its wants and digeftive powers—no superabundance of milk is collected, nor a fudden flow of it into the laftiferous tubes, by which diffension, pain, and febrile affections to the mother are prevented; the child's stomach is not overloaded, nor too great a quantity of fluid thrown into the habit, which would be injurious to feveral parts of the machine, particularly the

the head-lungs-and liver-as the circulation of the blood is now altered from what it was before the birth, and confequently the veffels in those organs incapable to bear sudden and too free diftention; for the parts of the human machine are always better enabled to fuffer changes brought on in a gradual and temperate mode, than by fuch as operate in the contrary extreme : and this feems, in the cafe of which we are speaking, to be the intent of unerring nature; it is fo perfectly rational, that the description alone carries along with it conviction. Indeed, I am fo clearly convinced of the great utility and good confequences arifing from the adoption of this method, both from reason and experience, that I univerfally recommend it to those who are capable and willing to fuckle their own children; and in all healthful subjects, it is a practice which should on no account be difpenfed with; for to me, there is little doubt but that the milk of the mother is better adapted to the constitution of her own offspring than of any other; besides the advantages attending the first, as much so, I think, as the natural foil is to any indigenous vegetable: nor do I fland fingle in this opinion; for many authors, who have written best on this subject, not only support the same doctrine, but think that the mother's milk is sufficient for the nourishment of the infant for the first twelve months, and recommend that, to that alone they should adhere.

Could we insure the health of the mother and child, I should not hefitate to enforce the custom; but as both are liable to fall into dispositions, which may either, on the one hand, render the milk improper, from its nutritious qualities being altered; or, on the other, from its increasing some complaint in the primæ viæ. I think, during the child's being nourished from the breast, it should be fed once or twice a day with the boat; that if any accident should render it absolutely necessary to wean the child, or take it for a time from the breaft, no inconvenience may arise from fuch an alteration; for many children feed folely by the breast-take very ill to the boat : nay, fome indeed are obliged to be supplied by the breast of a stranger, a circumstance often painful, and almost always disagreeable to the parents-and as a fuccedaneum for the mother's milk that of ailes is the best, or artificial affes milk with a little bread, called tops and bottoms; or roll, or bifcuit-not the common bread, for that has in its composition too much of alum, and may, in habits where there

is a propenfity to costiveness, be particularly hurtful.

But as children are apt to have most of their complaints originate from acidities in the stomach and howels, or to have such acidities very often as a distressing consequence, it would be right to use them to the taste of other viands; particularly weak veal broth, That---the strong inherent power, or primary action of any medicine being known, its secondary or consequent effects may be traced in general from the same source—and that when these are altered, it is owing to some constitutional cause last specified, or to the difference of the dose, varying its action only in degree.

That—fome medicines, to which are attributed particular powers, have no fuch powers inherent in themselves; but are inactive, and have their action dependant on some other materials with which they meet, and form combination in the habit, making a new substance, different from the principles of which they are composed, and to which must be attributed their active powers.

That—fome medicines, when thrown into the habit, have not the power always of exerting their primary action of themselves alone, but when joined with other materials, produce the effect intended, consistent with the power allowed inherent in them.

That—medicines do not always in fimilar doses produce the same effects, on dissimilar constitutions—nor, before the trial, can the active dose be discovered;—therefore in the exhibition of all powerful medicines, this general rule should be observed—to begin with small doses, and gradually increase them, till the proper constitutional dose is manifested;—that is, till nausea, sickness, or some uneasy sensation in the stomach is created, then by lessening the dose in a slight degree, the full one may be ascertained—and this holds good in all active medicines—except such where benefit is supposed to be derived from occasioning nausea, or sickness—as occurs often in the administration of quills—ipecacuanha—and some antimonial preparations.

Now, as we find a number of these actions depend upon the stomach, and its intimate connections with different parts of the human machine, we may say every part, that are possessed of moving powers, and insluenced by them, it will not be improper to say something relative to the effects produced by this intimate union.

With regard to connections—fympathy—or confent this vifcus has with most parts of the body, and the mind also, it is very close, known from a variety of appearances obvious to our senses; as well as the observation of the most judicious and sagacious practitioners.—A very late writer, of no small eminence, says—"Nothing affects the mind more than the state of the stomach, and nothing draws the stomach into sympathy more than affections of the mind.—This is evident from hypochondriac people, whose disease being chiefly seated there, has often grievous effects upon the sensorium commune," that part

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where the senses transmit their perceptions to the mind—" or the seat of it, the head—Does not, in shese cases, the vomiting of bile proceed from consent between the stomach and li" ver."

"The stomach has a considerable connection with the viscera of the thorax, or cavity of the chest—abstracted from its contiguity or distention.—In hypochondriacal eases, the heart and lungs are variously affected by the stomach—Convulsions of the diaphragm are often occasioned by slight irritations of the cordia, or upper orifice of the stomach; —many other symptoms might be adduced in proof of the same thing, were it necessary."

"The stomach is connected with the abdominal viscera;—
"and sist, with the intestines;—secondly, with the other contiguous, as well as more distant organs—as splcon—pancreas,

" or fweetbread, kidneys, bladder, &c."

"This viscus is connected with the extremities, as has been experienced by the transition of the gout from the stomach to the extremities, and vice versa—Cold and heat applied to

" the extremities affect the flomach."

"It is connected with the whole furface of the body, and feemingly with the extreme veffels every where.—This is demonstrable by many observations—for no sooner do some aliments reach the stomach of particular persons, than spots and feesflorescences are occasioned on the skin.—Van Swieten gave fuch another instance from crabs eyes.—Dr. Cullen had a patient labouring under the hypochondriaeal disease, who was relieved of his complaint by pimples appearing between his thumb and singer—and as immediately oppressed by their retropulsion or disappearing."

"Vomiting from constriction of the cutaneous pores is another instance of such sympathy .-- Such symptoms, therefore,
are safely attributed to acrimony -- and, upon the whole, we
may conclude, that the stomach has a general consent with the

" System universally."

If we confider what has been faid on the action of medicines, deduced from experience, founded on their effects, and the fympathetic power of the stomach derived from the universality of its connections with continuous, as well as distant parts of the machine, we shall be able to account for a number of phenomena which would, without such knowledge, appear miraculous, and exceed all belief;—and also be enabled to arrange medicines under their respective heads, all which will be extremely useful in giving us the necessary information how, and in what eases they ought to be applied.

For

For as nothing can be done effectually in the living machine without the action of the vital principle---and as we have no mode of regulating, or producing any effect upon that primarity, we are limited to direct all our operations on the parts of the constitution, that they may be put into such states, as to receive benefit from the salutary instruence of that vital principle;---consistent therefore with this idea we shall form our arrangement---which we shall here concisely set down---leaving the full explanation of each particular, till we come to treat of them under their respective heads.

The arrangement confifts of five heads:

First-MEDICINES which act upon the inert folids by means of the yital principle, under which will come

I. Nutrients

2. Astringents, and

3. Emollients.

Second—MEDICINES which act upon the living folids by means of the same principle.

Here will follow

1. Stimulants

2. Antispasmodics

3. Sedatives

4. Errhines

Sialagogues
 Expectorants

7. Emetics

8. Cathartics

9 Diuretics

10. Diaphoretics, and

11. Emenagogues.

Third-N EDICINES which act upon the fluids through the fystem.

To this place belong

1. Attenuants

2. Inspissant, and

3. Demulcents.

Fourth—MEDICINES which manifest their sensible action only in the prime viæ, or first passages, from the throat to the anus.

Here fucceed

1. Antalkaline

2. Antacids, and

3. Antifeptics.

Fifth—MEDICINES which produce their consequences from external application, or on substances formed within the machine, and lodged without the verge of circulation—as

1. Epispastics

3. Anthelmintics

2. Blood-letting

4. Lithontriptics.

This then the arrangement, we shall now proceed to explain the different parts of which it consists specifically.

CHAP. I.

MEDICINES which act upon the INERT SOLIDS by Means of the VITAL PRINCIPLE.

occasioned by the different operations passing on in the human machine—Hence, from their affording nourithment, do they take their name.

But these vary in several respects, either as to their being more or less perfected in themselves towards the nature of animal juices,—being of easier or more difficult digestions,—and also with

respect to their fluidity or folidity.

But though they are possessed of such various properties, they are all of them reducible to one flate, in order to promote fupport to the animal; and the changes they undergo for this end are brought about by three different ways in the first instancefor first, the folid food is minutely divided, and has its texture in a great degree broken down by chewing, and farther reduced by the action of the flomach and intestines—this is called Com-MINUTION .- It also forms an union with the faliva, air, juices of the stomach and intestines—those of the liver and sweetbread this is termed COMMIXTURE—and add to these the heat it receives, by which it is thrown into the third mode, or FERMENT-ATION -- and all this it undergoes in the first passages .- In the fecond, it experiences great divisibility, union, and mixture, in passing through the lacteal vessels, and by the force of the lungs; -and, laftly, it is brought into its most perfect nutritive state by the impressive influence of the circulatory system upon their contained fluids. Hence we may concilely fay, that the affimilation of our food, for the purpose of nutrition, is performed by COMMINUTION-COMMIXTURE-and FERMENTATION.

And from this we may understand why all nutritious subflances should be adapted, both with regard to their quantity and quality, to the strength and vigour of these powers collectively

confi-

considered-and also are we taught what mischiefs often arise from the indifereet indulgence of fond mothers, and ridiculous nurses, who load those, who are weak in some or all these parciculars, too freely with food, confidered in itself to be nutritious, in order that they may acquire frength, and by these means destroy the effect, by large quantities being poured into the habit, which smaller proportions of the same food would have indisputably supplied; -for if the digestive powers are loaded with a superabundant quantity more than they can conquer, they become, as it were, diseased; and even the small portion of food, to which their powers were adequate, left in a flate too imperfect for affording any nutrition. And this rule is extremely worthy of attention-for valetudinarians, however proper their tood, should never take more than they can bear with the greatest ease. Indeed, in people recovering from very fevere illness, where the active powers of the habit have been greatly enfeebled, though it is always right to throw in food of the most nutritious nature. the most easy of digestion, and such as sits the most light on the flomach, still should we begin with finall quantities, increasing them, and altering the food in proportion as the patient recovers ftrength; and this for very obvious reasons, which will soon appear, as we examine the nature of our food more minutely than we have done in speaking of the non-naturals.

Though we have before faid, that perhaps our first food partook most of a vegetable nature, yet as all substances are the more nutritious, the more they approach to that of animal, a division seems here requisite, in order to shew the different degrees they maintain with respect to the nutriment they afford, and the proper modes of best acquiring and applying them to the constitution

NUTRIENTS, therefore, may not improperly be arranged under three heads:

1. ANIMAL 2. VEGETABLE 3. MIXED.

Of the FIRST—All those are the most powerfully, and most quickly nutritious, which have the least acidity, and are most elaborated, or brought nearest to the nature of animal sluids—hence the finer juices of the older animals become the most eligible, and these are best procured by slight boiling, or insufing, in such a diluted state as the circumstances may require; that is, in proportion to the strength of the digestive powers:—for, as we consider the very sine juices of animal substances the most nutritious, because more readily assimilated to our own nature, for very weak debilitated habits, insusion is the most advantageous process, as by these means the substances are preserved, which by long or quick boiling would be dissipated—but for those posfessed

feffed of stronger digestive powers, there is not so much necessity for this nicety.

Of these materials the most nutritious are, beef-and mutton-

tea-as they are called-made in the following manner:

Take of the lean part of beef, or mutton, one pound, cut it into thin flices, and let the texture be well broken, by bruifing it, then add to this one quart of boiling water, in an earthen or tin veffel, keep it close covered till it is quite cold-or boil them over a quick fire, for five minutes; feparate the foum, and decant the clear liquor for use :- but should we require more of the ftronger parts of them, the liquor may boil ten, fifteen, or twenty minutes, and then proceed as before directed.

The juices of the older animals are preferable to those of the younger, because those of the latter are more tenacious, and partake not so much of the nature of our own fluids, consequently

yield, in that respect, to the sormer.

But when it is requifite that the flesh of animals should be given in its folid form-that of young ones is confidered the most proper, as their fibres are much more tender, most easily broken down by chewing, and yield their nutritious part more

readily to the acting powers of digestion.

MILK, of which we have before spoken, pages 82, 83, though of a mixed nature, between animal and vegetable, we confider next; for it is a fluid only half pertected, and partakes, in some degree, of each of the other classes. We have, in another place, delivered our fentiments on the allowed degrees of preference one species of milk has to another, and have shewn that of asses to be the best of any which could be procured in proper quantity -we shall here, therefore, only observe, where that cannot be acquired, either from the greatness of the expence, or the scarcity of the animal, the following, called artificial affes milk, is not an inefficacious fuccedaneum:

Take of candied eryngo root, one ounce; pearl barley, half an ounce; liquorice root, three drams; boil them in two pints of water till they are reduced to one, then add one pint of milk fresh from the cow, boil them gently together, and strain for use. Half a pint of this should be drank, in general, two or three times a day; but should that quantity be too large, it may be reduced,

and repeated oftener.

The VEGETABLE CLASS has been confidered as more difficult of affimilation than either of the other, because it is more dittant in its nature from our fluids; and perhaps those may be found the most nutritious that approach nearer to milk, that is, more impregnated with oil, not effential-faccharine fubstanceand a small portion of vegetable acid; for it is from these qua-

lities

lities that all nutrition, in food of this fort, is supposed to be derived.

We have spoken here, and in another place, of these things, merely as appropriated to afford nourithment only to the animal; but they must be allowed to have other properties, which it is necessary to specify, as by these means different changes are produced in the constitution.

ANIMAL FOOD, particularly fish, is more stimulant and alcalescent, because more prone to run into that state, which generates pungent acrimonious salts, consequently becomes more

heating.

VEGETABLE, more diluent and acescent, from its being more replete with aqueous particles, and having strong propensities, from their very nature, to become acid—hence more cool-

ing.

Milk, in this instance, partakes more of the latter, as it is subject, left to itself, to become acid; besides, vegetables are more emollient and sheathing, as most of them abound not only with watery particles in great proportion, but also with those which are mucilaginous; and seem to have inspissating, or thickening powers, from their mixture with the sluids; hence, if we take in the account the quantity of sixed air with which they are replete, we may be convinced of their utility in cases of the sea or true scurvy, and in all those morbid habits, where the sluids have acquired too great degrees of thinness, from inherent or accidental acrimony. Milk also retains the same properties.

Roasted—broiled—or fried animal food, is more stimulant than boiled, and runs quicker into a state of putrescency—from the different culinary processes they undergo: the first being prepared only by the action of strong heat, by which means the sluids are rendered more pungent, and more highly alcalescent—the last receiving a less degree of heat, and through an aqueous medium, with which part of the animal juices are mixed, rendered more dilute, and less highly subtilized;—but when stewed down, to a great degree, and eat with the sluids with which it is prepared, it approaches nearer to the former, than when only insufed, or gently simmered; nay, indeed, often exceeds them; and hence becomes also more dissipated to be concocted or conquered by the digestive organs.

Of the vegetable class, we have said farinaceous substances are the most nutritious, and those which have undergone some culinary process, because their sibrous parts are rendered more tender: and those which are most easily assimilated, which contain the most oil, saccharine substance, and a small portion of vegetatable acid; consequently those which have suffered maceration

and fermentation, as they become fweeter, and have their viscid parts rendered thinner, and more flexile, by those means are more eafily digetlible :- But we must in this place make one observation, which affords an objection to what is advanced .- There are another class of vegetables, which are supposed to be more nutritious-and these are the Funci, or those fungous extuberances, called Musbrooms, or Champignons -- Truffles -- Morilles, named by NERO, the Victuals of the Gods --- they are confidered to afford more nutriment, from yielding, on their chemical decomposition, materials fimilar to animal food. DR. CULLEN fays, "if they are " truly vegetable matters, of which fome have doubted, they are " very different from every other vegetable with which we are " acquainted ... for in the first part of their diffillation, without " addition, they give out no acid, but a large proportion of vo-" latile falt ; --- and exposed to undergo a spontaneous fermenta-" tion, they manifest no acescency, but become immediately pu-" trid .- hence shew they a very near resemblance to animal sub-" flances; and it may be prefumed, that they are more confi-" derably nutritions than almost any truly vegetable substanc-66 05.77

I have inferted thus much relative to these sungi, in order that we may be acquainted with their particular uses, not as correctors of animal food, like other vegetables, but rather as animal food itself, and correctors of acidity in the stomach---and on this account become a pleasing delicacy to such, who are forbid the use of all vegetables, on account of a prevalent redundancy of acid in the suff passages.

All the acrid--bitter--or highly flavoured vegetables, as they confift of parts which are not readily fubdued by the digeffive powers, but pass in an unaltered state in the course of circulation, come more properly under the class of medicinal sub-

flances.

Under this head of Nutrients we shall have no occasion to supply a general catalogue, for all those things fall under this class which we employ as food, and include whatever we eat and drink for the purpose of supporting the animal machine, and repairing its waste.—And if we revert to what has been said intreating on aliment, p. 70, and on those liquids we in common drink, p. 80, with what we have here advanced, we shall be supplied with knowledge sufficient properly to direct us in our selection; for I am fully persuaded, that we oftener err by the quantity of food that we take, than the quality; as it is certain, such is the power inherent in our habits, that though our food may be in its own nature in any particulars dissimilar, still if we only supply such quantities as are judiciously approportioned to

our digestive powers, whatever the aliments on which we feed, they will all be reduced to the same state, adapted to the preservation and nourishing of the machine; we shall therefore advert

to our next subject.

§ 2. ASTRINGENTS, from the Latin word aftringo, to bind, or condense, which are all such substances as by their action render the softer parts more compact, give a greater sirmness to the solids, and a cohesive tenacity to the sluids. Their particular power in condensing the solids is obvious from the effects which they produce in tanning, or making of leather.

BOERHAAVE was of opinion, that, when applied, they bring two diffant parts of a moving fibre into closer contact, and into a more firm cohesion, and this by infinuating between each particle

of the fibre another of the fame kind.

Dr. CULLEN thinks, that as a fibre is composed of solid and fluid, the cohesion of the whole is increased by diminishing the watery, or by addition of the solid substance: but is rather a fa-

vourer of the first opinion.

With respect to the addition of any solid substance, it may be the case when acting on the inert solids, free from the influence of the vital, or nervous power; but in the living machine, we cannot suppose medicines of this class derive from this source their operation; for under those circumstances the medicine must be universally diffused, and come in contact immediately with the parts upon which it acts.

This, therefore, cannot be true—if we consider the very small portion of those which shew their general astringent power, when taken upon the stomach, and the very quick mode in which they produce their effects; besides, the variety of sub-stances which manifest a constringent efficacy, when the machine

is varioully affected from different causes.

In proof of this we finall mention fome few particulars:

ALUM, when given in dofes of a few grains, has been known to flop profuse bleedings, arising from a relaxation of the solids,

in a fhort space of time.

WHITE VITRIOL—BARK—STEEL—and some other of the strongly acting medicines, have caused the cessation of other discharges, by invigorating the system, and not from the locality of their application.

PUNGENT STIMULANTS have produced inflantaneous

effects, though not durable, in cases of laxity.

SEDATIVES, or those medicines which manifest their effects by alleviating pain, and abating the quickness of vascular S action, action, have early shewn their power in the abatement of acrid defluxions.

Now it appears evidently that all these produce their influence by their action on the stomach sympathetically conveyed to the machine in general, and to the parts particularly affected, which, as being in a more morbid state, they experience more powerfully.

With regard to the fluids, those medicines which have the power of sheathing acrimonious particles, from whence discharges have proceeded, may be considered as assuingents. In fine, whatever will promote a contraction of the solids, or coagulation of

the fluids, come under this class.

But it must be observed, that many of these excite their action instantaneously, but do not give the system the power of continuing the effect;—whilst others act more slowly, still occasion, as it were, a permanency to that action in the constitution.

Volatile substances—essential oils, and others of this class promote very quickly the influence of the vital powers, by which means the constitution very early is made sensible of their power; but as soon as they cease to act, which they do in a flort space, the morbid essects, they seem to have conquered, are reproduced.—Alum also labours under the same disadvantages.

But the more flowly acting aftringents continue their force longer, and appear to give a stronger and more lasting cohesive power to the particles of the solid sibres, as if they increased

their attractive influence inter fe.

From this knowledge we shall be able to deduce a mode of prescribing, of infinite use in practice, which would at an earlier period have been considered as contradictory, and ridiculous, because deviating from the commonly received opinion—for, from what has been advanced, we see that volatiles and astringents may be judiciously united, and will be the means of assisting the effects of each other, by producing them sooner, and making them more lasting—as I have often found in the course of practice, particularly where the constitution has been defective in vascular irritability, and nervous incitability; for, by adding volatiles and pungent slimulants to bark, in many cases, the wished-for effects have been produced, which could not be attained by back alone.

To these, where the humors are acrimonious, sheathing medicines, called demulcents, may be joined;—and sedatives occasionally had recourse to, where spalms attend relaxation of the folids.

But we must here observe, that where the astringent saline minerals, such as those of steel—white, and blue vitriol—the preparations of lead—alum, &c. may be thought proper, vola-

tiles

tiles must not be joined with them, as they will occasion a decomposition, and render the astringent power of the compound

mineral less active, nay, perhaps, destroy it altogether.

The catalogue, presented to us by various authors, is extremely copious, but we shall content ourselves with a sew, which are in general allowed to be the most efficacious.

ASTRINGENTS from the Mineral Kingdom.

IRON, filings, or rust prepared-dose from five grains to 30.

Ammoniacal iron, 3 grains to 15 or 20.
Tartarized iron, 10 grains to 50.

Vitriolated iron, 3 grains to 20.

Tincture of muriated iron, 10 drops to 60.

ALUM, burnt, from 2 to 15 grains. Whey, from 2 to 4 ounces.

Gurd, externally.

CHALYBEATE WATERS-

Tumbridge Hampstead
Pyrmont Islington, &c.

ZING-Calcined zinc, 2 grains to 6.

White vitriol, 1-2 a grain to 2.

COPPER—Blue, or Roman vitriol, 1-4 of a grain to 2.

LEAD-Water of acetated litharge, from 1 to 3 drops.

Synado Acetated ceruss, 1-2 a grain to 1 and 2.

From the Vegetable Kingdom.

Roses---Conferve, Infusion,

TORMENTIL ROOT-

In powder, In decoction,

KINO---powder, MADDER---powder,

In decoction,

1 or 2 drams to 1-2 an ounce. 2 ounces, or more.

8 grains to 40. 2 to 3 drams.

1-2 a scruple to 2 scruples.

20 to 30 grains.

1 ounce in 3 pints boiled to 2--dose, 2 ounces.

WOOD SORREL-Conferve. WATER-DOCK ROOT-In decoction,

1-2 a pound to 6 pounds of water reduced to 4---dofe 8 ounces.

Cur Moss --- in decoction, faid to cure the chincough.

QUINCES --- Marmelade. MULBERRIES --- Syrup.

MEDLARS --- Fruit, not to be eaten before long keeping.
SLOES --- Conferve, dose I or 2 drams.

S 2

NETTLES,

NETTLE, flinging --- Juice, or decoction, 2 to 4 ounces.
BEARS WORTLE BERRY, the leaf---

Powder, 15 to 30 grains.

Decoction or Infusion, 1 or 2 drams in a pint and 1-2 of water reduced to one pint-dose from 6 to 8 ounces.

TINCTURE OF CATECHU, which was called JAPAN EARTH, 1, 2, or 3 drams.

POMEGRANATE -- In decoction, An ounce to a quart of milk and water reduced to a pint.

OAK and ASH BARK---Slight decoction, gradually increased.
SIMAROUBA, or GUIANA BARK---Powder, from 10 to 20 grains.
Logwood---Extract, 10 to 40 grains.

Decoction, 1-2 an ounce to a pint and 1-2 reduced to 1 pint---dofe gounces.

Galls--externally, 1 part of powder to 8 of hog's lard. All the acids, vegetable as well as mineral--all the bitter Stimulants--Sedatives--and all the stimulant Balfams. We shall not supply any formula here, from the different combination of these articles, but specify them more particularly, when we come to treat of those cases where sach applications are required.

Though we have fet down the doses according to what is generally held proper for adults, expeding they will be varied according to the age and constitution of the patient, and the exigence of the case to which they are necessary, one observation it is proper to submit here, for the information of the reader; which will apply in all the other departments on the subject of

medicine, as well as in this place.

That, as the same dose of any active medicine will not be adequate to produce the intended effect on all constitutions, the dose specified being too large for some, and for others too small—we should always begin with a very moderate dose at sirst, and increase it gradually; till the full proportion can be discovered; thence we shall be certain of deriving every advantage which the medicines can procure. Besides, we shall avoid producing too violent effects upon those habits which have a natural antipathy to any particular medicine, which can only be discovered from experience.

§ 3. EMOLLIENTS --- fo denominated from the latin word

emollesco, to grow foft or supple.

These act in a mode opposite to the preceding class, inasmuch as astringents give firmness to, these induce a relaxation in the folids.

They have been called RELAXANTS, and may be confidered as fuch, if we include their mode of action in a double fense;

for though they have been thought to produce such a change in the solids as occasioned them to be extended, more than they were before, without rupture; still they have been acknowledged to reduce a part of the body, indurated and compacted in one uniform bulk, into its state of contained liquid, and containing solid.

It has been conjectured, that emollients act chiefly upon the folids, by introducing their particles, which confift mostly of the watery, mucilaginous, and oleaginous kind, between those which compose the solid sibre, thus forcing them farther from their sphere of attraction, and bringing them nearer to a state of sluidity; for solids and sluids differ but in proportion to the stronger or weaker attractive power of their component parts.

But notwo hilanding this may be the case in many, nay, perperhaps most instances, still they may produce their essects geberally over the system by their action on the stomach; for if that organ is relaxed, so will all the other parts, dependent upon it, without having any watery particles introduced to weaken

their texture.

FEAR and GRIEF are powerful relaxants, but these may be faid to affect the mind and vital power, and hence produce their effects.

INEBRIATION has with numbers the same consequence, but this arises from the relaxed state of the stomach, which is soon taken off by stimulating that organ, as has before been specified in the beginning of this work.

Women in general experience fimilar mischiefs, from repeatedly drinking bot tea, and other liquids under the same circum-

flances.

EMETICS given only in small nauseating doses, enervate, and relax the system from the same cause.

SEDATIVES (chap. 2. § 3.) may also be considered in some de-

gree under this head.

Those, however, which produce their effect upon the machine in general by sympathetic power, will be considered under different heads. Under emollients we mean to rank only such substances as act from their watery, mucilaginous, and oily particles, of which they consist; and these prove most effectual on the parts to which they are more immediately applied, which Dr. Culten conceives to act in one of these two ways; "the one by being infinuated into the substance of the solid, and thereby diminishing the density of the whole of the mixt, they diminish its force of cohesion. The other is, when, by being insinuated into the interstices of, or spaces between dry particles, they diminish the friction which might otherwise occur, and thereby

"thereby render the whole more flexible. The former feems to

And these three seem to include all the emollients, if we were to examine the articles, multifarious as they are, which constitute this class. Indeed, for internal use, the writer above specified rejects the whole, and gives the preference to the insusion or decoction of lintseed; which is fully as essications as any other.

And here, though we must observe, that as in many sebrile complaints the use of emollients seem absolutely necessary, where the degree of sebrile affection runs very high, we are rather to adhere to those of the watery, mucilaginous and farinaceous kind of the vegetable class, than to those abounding with oil, or animal substances; because, from heat, they are apt to grow rancid, acquire acrimony, and hence become too stimulant, and much increase the tebrile effects we wish to restrain.

The catalogue of EMOLLIENTS furnishes us with a great variety of substances, out of which we form the following selection—which, as they are so very simple in their own nature, and produce no powerful action in the habit when taken internally, require not to have any particular doses annexed to them.

EMOLLIENTS from the Animal Kingdom.

Weak broths, crude yolks of eggs, honey, milk, cream, butter, fuet, fat, spermaceti.

From the Vegetable Kingdom.

The feed of quinces, line, fænugreek, white poppy, wheats rye, oats, barley, particularly the farina of these, sigs, raisins, dates, marsh-mallows, balm.—Decoctions or infusions of these are pleasant and efficacious for common drink.

Oil of almonds, olive oil. All bland expressed oils.

Bete, spinage, white lily root, boiled onions. Liniments, ointments, somentations, or cataplasms formed of these substances, which we shall, in their particular places, hereafter specify, have similar effects—perhaps the warmth with which they are applied may have some gently stimulating powers, and hence prove also in some degree essicacious in those complaints for which they are advised.

To these we should have added the warm vapor of an animal recently killed—for we have instances of the arm, and other parts, put naked into the body of an animal immediately after it has been slaughtered, receiving great benefit, in cases where relaxing applications seemed requisite; and where many of the others had been tried without any advantage.

But the most emollient of all is VAPOR, either received by the mouth,

mouth, or injected by glyster, moderately warm--- and indeed it is almost universally esteemed so, whether applied internally or

externally.

Thefe form the class, it has been faid, of medicines which act upon the inert folids by means of the vital principle. That aftringents and emollients may act upon the inert folids also, perhaps, without the aid of that principle, in many cases, when brought into contact with them, me be allowed --- but that in the living machine they do, is muc to be disputed -- and that the nutrients cannot, is evidently of ar; for if that principle is defective by which the nutritious metter is applied to particular parts for their support and reparation, the matter itself will avail but little. This feems clear from our observations on paralytic limbs, receiving fuch flight degrees of support, and of being fearce at all benefited by the application of aftringents or emollients, where fuch deficiency takes place. However, in a work of this nature it feems not necessary to go too minutely into a fubject of fo much intricacy; it is enough for our purpose to point out effects produced by the particular materials specified, without being very folicitous of inveltigating the precise mode by which they are accomplished.

Our fecond position leads us to treat

C H A P. II.

On MEDICINES which act upon the LIVING Solids by Means of the SAME PRINCIPLES.

THE first of which are,

1. STIMULANTS, so called from the Latin word flimulo, to prick or goad:—and these are all such medicines as increase the oscillatory or vibrating motion of a fibre, or excite the action of the moving fibres in the living animals.

How stimulus increases action we cannot point out the preeise mode; but this we know, that all those things which can increase the influence of the vital powers, either diffusively or partially, are real stimulants, and as such must be consider-

ed.

They have been concluded to be of two kinds—DIRECT and INDIRECT. The first are imagined to act directly on the moving fibres;—the second on the organs of sense, by which means a perception is excited on the common sensorium, which acting there, determines the nervous power to flow more copiously in-

to the whole, or particular parts of the system. These are the most common and universal. But stimulants do excite motion in the moving sibres themselves independent of any connection with the common sensorium; for if the heart, or some other of the muscular parts, are separated from the body, they may have their action excited by the application of particular stimuli: this then is a certain proof of an irritable power inherent in themselves independent of connection with any nervous power.

And again, it is as clear, that a stimulus applied to the stomach will distate its power to the whole habit; or if to a part, other parts far distant will experience its influence, as in cases of general heat being occasioned by the use of cordials or volatile substances—vomiting from irritation of the kidneys, &c. Hence then we may fairly conclude, that action is produced by sympathy, as well as local stimulus.

Besides, in many of these actions, mental power is the first cause, as we may discover in longings, desire for that sood of which we see others eating with uncommon relish; by which means the Romach is stimulated, and a strong sensation of hunger is induced, which did not before exist—weeping also from forrow,—vomiting and sickness from recollection and resection, &c. These are incontestable proofs of the truth of our after-

tions.

Hence, then, stimulants may be properly divided into three classes:

GENERAL—and these are such materials as are taken into the stomach, and communicate general affection through the system, owing to the connection of that organ with every other part of the machine.

LOCAL-where irritation is produced on the part affected.

MENTAL—where, without the application of any material fubflances, applied to the flomach, or any other part, fimilar affec-

tions will be produced by the powers of the mind.

Indeed, almost all active medicines might be ranked under the head of stimulants, were we to class them according to their known operations; submitted to different divisions under this general term, agreeable to the effects they produce—but we shall confine ourselves to such substances as invigorate the system, increase the action of the nervous and vascular power locally or universally,

And from hence shall we see their use, by facilitating the passage of the blood through the parts in which it moved too slow, or was morbidly obstructed by augmenting the force and celerity of the circulation—they quicken the senses where morbidly affected, rouse the mental faculties when in a lethargic state, and exhilirate a desponding condition.

They

They restore the powers of motion where morbidly defective,

and also the strength of motion where morbidly weak.

From their uses have they been divided by some authors into fuch as are diffusable-cordial-and topical by their action-that is, fach as have their action conveyed over the fystem-fuch as exhilirate the spirits-and such as are applied to some particular parts morbidly affected. Examples of the FIRST have we in

Volatile alkaline falts, Electricity, Heat.

Of the SECOND in

Wine. Nutmegs, Cinnamon,

Of the THIRD in

Mustard, Cantharides, Preparations of mercury.

These we have specified for the ease of selecting the particular fubstances, according to their uses, from the following catalogue of

STIMULANTS-most of which, when taken internally, have a power of increasing the force of circulation, and invigorating the fyftem --- and fome proving also more immediately cordial, by revivifying the spirits.

Of the FIRST CLASS are

Horfe-radish Myrrh

Mustard Guaiasum wood

Garlie Sallafras Onion Contrayerva Leek Snake-root Cafcarilla Turpentine

Ballams of Copaiba, Gi-Wake Robin

lead, Peru Volatile falts.

Gum Guaiacum

Of the SECOND,

Lavender Nutmeg Cloves Rosemary Pimento Pennyroyal Pepper-mint Pepper

Aniteed Ginger Capficum Carraway

Cardamom feed Grains of paradife

Wine Cinnamon Caffia wood Effential oils

Mace

Those used topically are Mustard Volatile alkaline falts

Horle-radish And these made either into plaisters, Cow-itch epithems, cataplaims, ointments, or

Cantharides liniments. Euphorbium

Preparations of mercury

The following, though truly con thered as possessing a greater or less degree of thimulating power, produce not the effects before specified so fensibly:

Zedoary Quaffia wood

Genfing
Gafearilla
Common and Roman
Wormwood
Camomile

Hops
Dandelion
Millipedes
Hyflop
Ground-ivy

Orange and Lemon peel Hedge-hyslop.

All the NUTRIENTS and ASTRINGENTS are of this class; and many others of the succeeding classes, though stimulant, are more particularly appropriated to other purposes, under which heads they will be arranged. The catalogue here given will be sufficient to answer the purposes to which stimulants, merely considered as such, are calculated to be of any use.

But as some of them have been thought, by very respectable authority, to possess some peculiar powers, and are easily attainas

ble, we shall beg leave to specify them.

HYSSOP has been reputed to be attenuant, refolvent, pectoral, in coughs and afthmas occasioned by viscid phlegm; thought to produce expectoration, drank in form of tea, and sweetened with honey; and to have the power of promoting the menses attributed to it.

GROUND-IVY, drank in the same form, or in decoction, has been eleemed corroborant, aperient, and detergent, used also in coughs and allbmas, to attenuate viscid phlegm and mucus, and to brace and strengthen the vessels of the lungs; formerly much ordered in consumptive cases, and ulcers of the kidneys, as an essections remedy.

PENNYROYAL. This has been confidered cordial--of great use in hysteric cases--to increase the tone of the system--and the chief vehicle for other medicines, to which were attributed the power of promoting the monthly discharges of the semale sex. Indeed, in this last case, by some practitioners, it is held

in no little estimation.

SPEAR-MINT. To this has been affigned cordial virtues, and a powerful restrainer of vomiting---tea made of this berb often answering this purpose, where every other effort has failed. It is recommended in flatulent cases, fluxes, worm cases, and many other disorders; and, though considered as a stimulant, it is not heating, a peculiar advantage it possesses over many other of the cordial class. Pepper-mint seems also to possess the same power.

HEDGE-HYSSOP. This is named a hydragogue, or an evacuator of watery humours from the body---hence useful in droptical cases, and also worms, from its purgative power. In substance it is said to promote vomiting, sweat, and urine, to be of service in maniacal and venereal cases, after mercury had been given freely without effect---the dose, in powder, from 10 to 30 grains.

DANDELION. This has been confidered as peculiarly useful in visceral obstructions, particularly those of the liver, as it seems calculated from its stimulant deobstruent powers, to promote bilious discharges---and, from experience, has been conclud-

ed highly efficacions in all biliary infarctions of the liver.

WAKE ROBIN. Much has been faid by men of the first medical authority in favour of this medicine, and used to be recommended as promoting watery excretions, quickening circulation in cold phlegmatic habits, and in diseases from viscid phlegm.

In deep feated, fixed rheumatic pains, it has been given with fuccess, in doses of from ten grains to a scruple of the fresh root

two or three times a day.

GEOFFROY and BERGIUS speak highly of its powers, as restoring lost appetite, curing intermittents. In the jaundice, greensiekness, hysterical, hypochondriacal, and other diseases, it has been found useful. In cases also of obstinate head-achs, which return at intervals, without sever, mixed with alkaline aromatics and absorbents. It is given in the following manner:

Take powder of wake robin, vitriolated tartar, of each ten grains powdered rhubarb, five grains. If these purge too vio-

lently, the quantity of the arum may be lessened.

GEOFFROY used to give it in doses of from half a dram to a dram; and by being boiled in vinegar, he says it becomes pow-

erfully diuretic.

LEWIS gives from ten grains to a scruple of the fresh root twice or thrice a day, made into a bolus, or emulsion with oily, or mucilaginous substances—it generally produced, whilst the patient was warm in bed, a copious sweat. It is now kept in the shops made into a conserve, half a dram of which may be given as a dose, and gradually increased.

Thus much has it been thought necessary to say of stimulants, in order to surnish a general idea of their extensive utility, under proper management; but as their uses are so multifarious, and almost the whole catalogue become repeatedly under our consideration in the succeeding part of this work, wherein we shall-be more particular in the specification of their doses, and the pecu-

T 2

liar cases to which they are applicable, we shall quit this part of

our fubject, and proceed to our next head.

§ 2. ANTISPASMODICS, derived from antispasmata, medicines which take off spasms, or what are commonly stilled convulsive affections of the human machine.

Though there certainly appears a difference between spasm and convulsion, as they never run one into the other; yet there have been many disputes relative to the definition, so that their dis-

tinctions may be properly marked.

Some have faid, if the folids are drawn into involuntary contractions, and they do not continue long, but go off, and frequently return again, these affections are termed convulsions—but if they remain a considerable time, spasms.

GAUBIUS defines a spasm, a violent, involutary, inordinate action of the moving fibres; and says, they who distinguish a spasm from convulsion, call the first a continued, the latter an alternate

contraction of the muscles.

They have been diffinguished by the terms tonic and clonic, from the Greek words teino, to stretch or fix, and kloineo, to shake. Hence, by the former are to be understood, such spasms as are continued; by the latter, such as are tremulous;—or, in other words, SPASM we would understand those muscular contractions which, once excited, remain in that state of contractility for some length of time—by convulsion, such as are irregular, and have relaxations and contractions alternating quickly with each other.

Though this distinction is necessary to be known, for the better understanding the authors who have written systematically on the subject; yet still it will be of little use in a practical view; as we shall find, according to the cause, what will be useful in one species, will also in the other. Indeed, there are such a variety of causes, so very different in their own nature, which may produce spassmodic or convulsive affections, that there will necessarily appear to be a great diversity of medicines which ought to be ranked under this head.

Shasms arising from laxity, are removed by astringents; from an over distension, by emollients, from acrimony, by demulcents, or such medicines as sheath the offending particles; from acidity in the first passages, by absorbent, or alcalescent substances, which, by uniting with the soid, form a third substance, inossensive in its action, and thus remove the cause; from wind, by those materials which disperse wind by their stimulating powers, and are called carminatives; from worms, by those stiled anticelmintics, or destroyers or evacuators of them, &c.—but these are considered, in regard to their known action, under their respective heads, calculated to operate against, and remove the acting cause.

But what we understand in this place by antispasmo-

dies, are such medicines as are serviceable, from their influence on the nervous energy, or increased nervous power, by removing spasmodic contractions taking place in different muscles; and by allaying convulsive agitations, where the cause is too latent to be discovered precisely; or, if conjectured at, too obstinate to be removed by medicinal applications with any degree of certainty; so that the constitution being relieved from the violence of these effects, nature may be left more at liberty to exercise her power for the extirpation of the operating morbid cause.

And in our administration we must observe, where the constitution appears to have an inflammatory disposition, we must select such as are the least stimulant; where relaxation or debili-

ty feems prevalent, those which are more powerful.

Besides, as the class of antispasmodics consist of medicines diametrically opposite in some of their sensible properties—some being highly setid—others as greatly odoriserous—and are considered as medicines of equal essicacy, we might suppose that there is no limitation in our selection—but we shall find that some will be essicacious in one constitution, and not in another—for where setids agree, the odoriserous ones will, very often do not—and so on the contrary; therefore, where one class has been tried inessectually, we must have recourse to the other. And here also it will be useful to observe, that very often, for want of giving these medicines in full doses, their essects have not been produced; consequently it is proper to increase them, very often freely, till that point can be properly ascertained.

The following fupplies the useful catalogue of ANTISPASMO-

DICS.

From the Vegetable Kingdom.

PENNYROYAL-

Infusion— Distilled water—

Essential oil,

RUE-Extract, SABINE-Extract, Powder,

ASA FOETIDA-

Tincture,

GUM AMMONIAC-

Milk of,

GALBANUM—Tincure, CAMPHOR—

Mixture,

from 1 to 5 drops.

from 10 to 20 or 30 grains.

from 6 to 20 grains.

20 to 30 grains. from 5 grains to 20.

½ dram to a dram.

from 10 to 20 grains.

1 ounce to 1 and 1-2.

from 10 drops to 60 from 5 to 20 grains.

1-2 an ounce to an ounce or more-

Spirit, for external application.

VALERIAN-Powder, Tincture, Volatile.

from 1-2 dram to 2 drams: I to 2 drams. I to I and a 1-2 or 2 drams.

From the Animal Kingdom.

Musk-

Mixture. CASTOR-Powder.

Tincture.

Ammoinia prepared, and from 3 to 20 grains. SALT OF HARTSHORN,

Liquor,

from 10 to 30 grains. from 1 to 2 ounces. from 10 to 20 grains. from 20 to 60 drops.

from 20 drops to 60. Oil, or animal oil, from 5 to 30 drops.

From the Fossile Kingdom.

AMBER-Oil, rectified, from 5 to 20 drops. Salt, purified 5 to 15 grains.

Though this falt, notwithstanding it is sometimes given in hyfteric cases, more properly belongs to the diuretic class, as allowed to be a promoter of the urinary evacuation.

ROCK OIL-externally applied, as is also the oil of amber, in

rheumatic and paralytic cafes.

All the effential and empyreumatic oils are of this class.

externally applied-dose from 20 to ETHER-vitriolic, 60 er 80 drops.

Spirit of vitriolic æther, 20 to 60 or 80 drops.

To two articles, which we have specified here, belides their antispasmodic power, others have been attributed of no less confequence-which, as medicines eafily attainable, we shall particularize.

RUE has been recommended in cases where viscid phlegm has abounded, and the circulation of the blood been languid. As an attenuant, refolvent, and deobstruent it has been much extolled; also in hysterical cases; and as a promoter of the menstrual discharge. BOERHAAVE had the highest opinion of it. Cul-LEN fays, it is certainly an useful medicine. It is best given in conferve, from half a dram to half an ounce, two or three times a day.

SABINE. This is confidered as a warm aperient medicine, increasing glandular secretions, and a powerful promoter of the menses. It is a very heating and acrid substance, and therefore requires much caution in the administration. Dr. CULLEN thinks it more powerfully determines to the uterus than any other medicine-of which truth experience has often convinced

me. Dr. Home, out of five patients labouring under obstructions of the menstrual discharge, cured three, or rather sour, by giving half a dram of the powder twice a day, though a dram is the dote commonly recommended. Of the extract, from fix to twenty grains is a dose. Externally applied, it has been estreemed a powerful destroyer of sungous excrescences, in taking of venereal warts, where other applications have failed.

§ 3. SEDATIVES. This is derived from the Latin word fedo, to assuage, rest, calm; and they properly belong to such substances as diminish motion in the system, and the force of the

moving powers-and also alleviate pain.

Hence, whatever diminishes motion in a part, or in the whole of the system, whether by rendering it insensible to any painful stimulus, or by arresting, by any means, the impulse of the vital powers, may be called sedative. All medicines, therefore, which cool the habit, or take off inslammation—some of the acids—neutral salts—emollients—astringents—and antispasmodics, may properly come under this head, as they diminish motion in the system—but in this place our objects are limited to the consideration of such substances only as are thought particularly to

act on the nervous power.

With regard to the precise mode of action of those selected to form this class, we can say very little, as our knowledge of he nervous fystem is so incomplete. However, thus far we may venture to affert, that they act either by having a peculiar power of restraining the violence, or rendering more equal the rregular motions of the nervous power, by their influence on he common fenforium, and its appendages primarily, (56) or by plunting the irritability of the living folids, and thus preventing he same power from exercising too forcibly its influence. And his they do either fympathetically, by having their action more liffusively communicated from the part they first affect; or by he locality of their action, when they are applied to the parts hemselves; for it has been proved, that the heart taken out of he body, has been made to all by the application of some ftinulus, and confequently, that this power of contraction was dependent on fomething foreign to the influence of the common enforium, or nerves, which was certainly inherent in the mufular fibres themielves; and if opium is diffolved and thrown ipon the heart fo separated from the machine, no action from stinulus will take place-which proves, that, by means of this feative folution, irritability is destroyed.

And it is commonly known, that if a fmall dofe of opium be aken on the stomach, it will alleviate pains of the extremities,

and other parts distant from that organ, very expeditiously, as

well as procure fleep.

If then we take the influence fedatives have on the common fenforium, and the irritable power, inherent in the mufcular fibres of the fystem, we shall be possessed of the most certain known idea of the operation of medicines of this class; and be furnished with the knowledge where, how far, and in what mode, the application of these substances may be serviceable or hurtful, in so far as they act as sedatives; but it must also be remembered, that some of them are stimulants.

Hence then, in all cases where there is too great a rapidity in the circulating sluids, or pain, or spasm from an inflammatory cause, they would be hurtful, otherwise they are in general serviceable. In cases also of infarction, or strong obstruction, which sometimes happens in the lungs, though attended with spasms, they must be cautiously used. But where neither of these objections occur, they may be allowable, and attended with use in diminishing the force and celerity of the blood's motion, where morbidly augmented, or the impetus of the blood against parts similarly affected, in abating violent pain, and procuring sleep in cases of preternatural watchfulness, in restraining inordinate motions, and moderating excessive evacuations.

But where the circulation is preternaturally languid, or there is a lethargic or drowfy difpolition, or a high degree of torpor in the fystem, to them in these cases we should not have re-

courle.

According to the purposes they have been given to effect, they have received different appellations—if to alleviate pain, anodyne; if to abate it by their demulcent power, paregoric; if by bringing on stupor, narcotic; if by inducing sleep, by pnotic; however, their action is similar, and requires no such distinction. They are more properly divided into such as produce sleep, as opium, henbane, poppy; and such as alleviate from their cooling property, as neutral salts, acids.

Our catalogue of SEDATIVES, of which opium is the prin-

cipal, confifts of

Poppy—Syrup of, Opium—purified,

Tincture,

Camphorated,
Cicuta—Hemlock,
Inspillated juice,
Powder,

2 drams to 1 ounce or more.
from 1 to 2 grains.

Sas a sedative, from 5 to 10 drops—
as procuring sleep, 10 to 25.
from 5 to 60 drops.

2 grains and gradually increased.

Henbane—
Powder,
Extract,

Tobacco—
Smoke,
Infusion,
Glyster,
Extract,

See page 155.

Of all these medicines, however, we think it necessary to give a

more particular account-and, first,

The Poppy Head is in use for making a syrup, possessed of virtues to relieve pain, and procure sleep—for these purposes, it is chiefly given to children, in doses of from half a scruple to half a dram or more; and it will be essections sometimes, where opium and its preparations are apt to disagree with the constitution.

It is also used for making fomentations for alleviating pain, particularly after proper evacuations in inflammations of the eyes and breatls.

OPIUM is anodyne, from its relieving most painful affections—bypnotic, from procuring sleep—incrassant, from thickening the humours—diaphoretic, from increasing perspiration; and, joined with ipecacuanha, antimonials, camphor, volatile salts, and such like, the most powerfully so of any medicine with which we are acquainted—fedative, from allaying the too great irritability of the nervous system—and the most efficacious antispassantic in the materia medica;—taken in too large quantity, it renders the nervous system so totally insensible, produces such general relaxations, that lethargy, convulsions, and death, are the consequences; but, in a variety of cases, given judiciously, it is one of our most noble remedies, particularly where nervous incitability, or thinness or acrimony of the humours are too prevalent in the constitution, admit too great degree of sever, or heat, or fixed obstructions, do not contra-indicate its use.

Hence the benefit arifing from its administration in hysteric and hypochondriac diseases; in convulsions from violent pain; in too great watchfulness, at the latter end of severs, small-pox, and measles; in coughs, from acrid, slimulating desluxions; in looseness, and dysenteric complaints, called bloody fluxes, very often. It has been said to cure the venereal disease. That in irritable habits it assists the operation of mercury, by preventing the too powerful exertions of mercurial stimulus, alleviating pain, and promoting insensible perspiration, will not be denied; but it being

being of itself curative, I cannot believe—though, after the humours have been rendered too thin and acrimonious by the use of mercury, I will not dispute its power; for I have seen its good essets in totally removing what have been called rheumatic pains from that source.

Afa-fætida joined with opium is faid to weaken its narcotic effects, and prevent that flupor, heaviness, and vertiginous affec-

tions, which opium is apt to occasion after its operation.

Besides, this medicine not only alleviates pain, and takes off spalmodic affections, when administered internally—but when applied externally, as in somentations, cataplasms, lotions, lini-

ments, or injections, it produces the same consequences.

Hemlock has been used much in scrophulous, schirrons, and cancerous cases;—in the last highly recommended by Dr. Storck, as a successful medicine, though not answering the expectations of the physicians of this country; notwithstanding which, I hesitate not to declare, I have found it in some degree serviceable in schirrosity—in scrophulous tumours, joined with bark, it has been useful; as also in ulcers, and soulness of the bones from that cause; in some obstinate rheumatic cases it has been essications, and I have evidently seen it produce good essects in the chincough. Joined with mercury, it has been useful in venereal complaints, and has been successfully given in some cutaneous disorders.

It is commonly given in doses from four or five grains to a feruple, and pushed on to one or two drams in twenty-four hours half an ounce has been given in that time; and, in one or two cases, Dr. Monko says, he has known an ounce. However, Dr. Cullen remarks, and that with great propriety that if some sensible effect is not perceived, when the dose is about twenty grains, he should dispute the goodness of the medicine, and have

recourse to different parcels of it.

HENBANE. This has been confidered as a narcotic, not producing hoat like opium; and, besides, it is, in large doses, laxative—evident advantages over opium. In palpitations of the heart, it has been said to be useful—in cases of mania and convulsions, in doses of the extract from one grain to sive. Though Storck extols the remedy in spalmodic affections, and profuse bleedings; yet, from Dr. Home's experience, it appears in these affections not to produce any good effects. It seldom produces sleep, or alleviates pain, except till the dose is arrived at eight or ten grains, may, often it has been obliged to be increased to fifteen or twenty; though, in full doses, it is more apt to occation delicium than opium. Sometimes it will agree where opi-

um will not; and it is not, except in large dofes, that its aperi-

ent effects are very remarkable.

From a case related by Sauvages of its curing a cataract, I once, under those circumstances, tried it with evident utility; but during the trial, my patient left town, nor have I heard what was the ultimate result. However, such were its effects under my inspection, that I should, in all cases of recent cataractous ap-

pearances, recommend the trial.

Tobacco, though in common use, and certainly considered as a luxury, from being chewed, taken in fnuff, and fmoked for pleafure, is a deleterious and noxious herb, poffeffed ftrongly of those powers producing stupor; hence confidered as a narcotic. It is highly stimulant, a powerful emetic, purgative, and promoter of the fallvary discharge; - applied by way of poultice to the flomach, we are told it excites vomiting, and produces the same effects applied to wounds. In the iliac passion, incarcerated ruptures, and obstinate costiveness, thrown up into the bowels, by way of smoke, or in strong infusion, it has proved efficaciousand also in cases of worms, particularly those very small white worms, called ascarides, which affect the lower part of the large bowel, called rectum, occasioning itching in the anus :- Indeed, it is faid that no remedy is more powerful in opening the bowels, procuring stools, and in destroying and bringing away these worms than this - though it must be observed, that given in this method, it will often produce great fickness and vomiting, especially if pushed far into the intestinal canal.

In Sweden it is a domestic medicine, and often given to vomit and purge, in the beginning of putrid fevers. An extract made of it, which renders it more mild in its operation, has long been used in Germany as a pectoral in coughs—and, of late, in this country, recommended as a powerful diaretic, and of great use in dropsies;—but its inefficacy in small doses, and from its producing severe sickness and vomiting, in large ones, such as were sufficient to make its diaretic effect apparent—from the nause-ousness of its preparations, and the roughness of its action; it has not yet been brought into general use internally. Externally applied, Bergius considers it as efficacious in discussing that

tumefaction of the prepuce (55) called phymofis.

§ 4. ERRHINES. This class of medicines, so called from the Greek en in, and rin nasum, the nose, or STERNUTATO-RIES, from producing sneezing, are all such as stimulate the internal membrane of the nose, occasioning a slow of mucus from thence, or causing that action from whence they derive their name.

They act altogether by their stimulus; and though they have

been faid to have effect upon the fluids, they do it in other way, than by increasing the action of the solids on their continued liquids. Indeed all evacuants are general stimulants. Even these medicines carried into the stomach, or thrown upon other parts of the machine, would produce such effects as were consistent with their irritating power, and might vomit, produce gentle sweat, or urine, or become expectorant, according to their elective properties.

The use of these medicines, though much insisted on by the ancients, have, by the moderns, fallen into neglect, though they may in some cases certainly be of no small service, either in unloading the parts contiguous to the nose, or removing obstruc-

tions by the shocks given to the system in sneezing.

Where the mucus fecretion is defective in the nose, producing a morbid diminution, by determining the sluids there, they
might be of service; or by occasioning a derivation from parts
morbidly affected in the neighbourhood of that organ—also by
agitating the system in general, and by obviating nervous affect
tions of the convulsive or spasmodic kind—but where there is
great sulness of the habit, morbid debility of the viscera, uncommon sensibility of the nose, or ulcerations of that part,
and those which are contiguous, the use ought certainly to be
forbid.

From confidering the operation of these medicines, and the effects likely to be produced by the application, we may learn how they become useful in rheumatic affections of the head; for temporary relief has not only been acquired by them, but the rheumatic disposition conquered—the tooth-ach also, and other rheumatic affections. In chronic and long-continued inflammations of the eyes, in opacities, or cloudiness of that part of the eye called cornea, beginning cataracts, and in some cases of deafmels.

In some complaints of the head of the spasmodic kind, they promise much utility; but in all full habits, or in cases where there appear any preternatural load in the head, they are not on-

ly doubtful, but may fometimes become dangerous.

And notwithstanding it has been afferted, that their use tends to remove lethargies, epilepsies, palsies, apoplexies, head-achs vertigos, catarrhs, gutta, serena, &c. and may, in some particular species of these complaints, where the nervous system is primarily affected, be attended with no small advantage: still should there be fullness of habit in people thus afflicted, prudence should direct us to have that fullness taken off before the application of sternutatories. During their use, we should carefully avoid cold, for that has sometimes produced unpleasing effects;

-they

—they should also be administered at intervals of one or two days, and then the patient should be kept warm. From the general shock they give to the system, they have been said to be more beneficial than vomiting, and hence also greatly useful in removing the remotest obstruction.

ERRHINES confifts of two classes-

MECHANICAL,

MEDICINAL.

The FIRST are, dust-feathers—animalcules vellicating the membrane of the nose, and blood accumulated, either from obfituation or inflammation—whence it happens that in a beginning catarrh, the mucus of the nostrils usually flows pretty plentifully.

The SECOND-

Hyssop Savoury Bete Betony Marjoram

Affarum Herb Mastich Tobacco Snust White Hellebore Orrice-root Pellitory Pepper

Euphorbium
Turpeth Mineral
Corrofive Sublimate.

The first are esteemed the mildest, the seven succeeding more active, and the three last the most violent in their operations; —but corrosive sublimate is considered as invested with the most superior power; for patients who have applied it, have sneezed for some hours, although it has been used in very small quantity.

There are different ingredients added together to form HERE

SNUFF,

As the dried leaves of Afarabacca

Sweet Marjoram Syrian Herb Massich Dried Lavender Flowers—

equal parts of each—but three parts of affarum and one of marjoram, beat into a fine powder, are superior to most of those sold under the name of HERB SNUFF—and indeed are the more agreeable and efficacious errhines. If taken to the quantity of five or fix grains at bed time, they are said to operate the succeeding day as a powerful sternutatory, inducing frequent sneezing, but still more a large discharge from the nose—and are often employed with great advantage in cases of obstinate headachs, and inslammations of the eyes, resisting other modes of cure.

Sometimes in obstinate deafness they have been given with success, with the addition of a small portion of turpeth mineral, and repeated at shorter or longer intervals, in proportion to the effect they produce of greater or less violence in their operation.

§ 5. SIALAGOGUES—derived from the Greek words, fialon, faliva, and ago duco, to draw forth, comprehend all fuch medicines as produce a flow of faliva into the mouth, from the

glands named falivary, there fituated.

They have been divided by some authors into three classes. The First—such as immediately act upon these glands, as somentation, friction, and suction, either internal or external of these parts;—hence, moreover, cataplasms applied to those glands, called parotid, from their situation under the ear, and chewing tobacco moisten the mouth;—all pungent stimulants also.

The SECOND, are all such as occasion a flow of saliva into the mouth, by intercepting a flux of moisture into other parts; for it is observable, that if any of the viscera should be obstructed, as the liver, spleen, pancreas, at the same time the kidneys, or intestinal ducte, then is the mouth always moist—whence hypochondriac people are called Sputatores, from their spitting so much; and, therefore, whatever prevents a secretion of lymph in those places, should be esteemed salagogue.

The THIRD CLASS takes in all those substances which are supposed to break down the sanguinary mass, and by that means supply the mouth with too great a proportion of fluids, thus dissolved.

Of this tribe quickfilver is the principal, and may be applied

in various modes.

From its external application a falivation may be raifed, though in its crude state—but it may be applied in form of liniment or sumigation; for if twelve grains of quicksilver are placed upon a fire, or a heated iron, they will emit a smoke, which, received by the nostrils, in two or three days will occasion a spitting. It may be taken internally with the same intent, and succeed, if given in a small quantity; but if in too large, it is apt to pass off by the bowels; it handled much, and for a long continuance, similar effects will be produced, as we learn from gold-beaters, who make great use of quicksilver, falling into salivations.

Quickfilver formed into a falt by fublimation, if taken in small doses, if applied externally to wounds or ulcers, or if attracted by the nose, has similar consequences, from its reception into the

habit.

It was the opinion of BOERHAAVE and others, that all these effects were produced by dissolving the sluids, either by its mechanical action, or by its dissolving or putrescent power.

Had

Had not these doctrines been previously refuted by such arguments as are uncontrovertible, from the confiderations, that mechanical force never divides mixts, but aggregates only; that, from the minuteness of the division of gold, even it may be made to become incapable of overcoming the cohesion of water or spirit of wine, and be suspended in them-and also that the smallnefs of the quantity introduced would be inadequate to produce the effect. And, with regard to its diffolvent or putrefcent power, that, during the operation of quickfilver on the habit, no fymptoms of putrescency appear in any part of the system-that there is no alteration of the blood in that respect during a fallvation, but its texture appears as strong then as at any other time;that falivation is attended with an inflammation, and the blood shews an inflammatory crust; and, finally, that after the operation of the salivation is over, no taint appears in the blood, but, on the contrary, the person is in better health than before, and gives marks of a firmer state of it; - one fingle instance would be sufficient to overturn them, if we consider that a few grains of calomel has in many constitutions raised a salivation very suddenly, which has continued for fome days, nay weeks. Inflances of which have fallen within the course of my own observation.

I cannot myself doubt of its producing its action in the salivary glands by the means of its elective stimulus, though it is capable of exerting its stimulus in other parts of the machine, as on the stomach, intestines, kidneys, and perspiratory vessels, producing, according to the parts assected, vomiting, purging, discharge of urine, and gentle perspiration.

Indeed, upon the whole, it should be considered as a stimulant in general, in particular, a salivary one, and an evacuant, more peculiarly of the serous or lymphatic shuid, or both; and one of the most universal aperients and deobstruents we have in the

whole catalogue of the materia medica.

In its combined state, forming metallic salts, quicksilver sooner exerts its activity on the system, but less certain, I think, in its effects;—it appears more efficacious, having its parts only divided by some unctuous or oleaginous substances; and, perhaps, its virtue depends upon its being so entirely unconquerable by the assimilating powers of the constitution, and capable of such minute divisibility, for it will pass through any body except glass.

Quickfilver, though here ranked as an internal fialagogue, or promoter of the excretion of faliva, because its elective power eems to be more determined to the salivary system, than any oher part of the machine, may fairly be considered as an univer-

fal stimulant, deobstruent, purgative, and general evacuant, in-

creasing the whole of the excretions of the human body.

It was thought that, from the great discharge it produced from the falival glands, and the fector accompanying it, that it diffolyed the texture of the blood, and disposed it into putrid acrimony; but experience proves the cafe to be far otherwife, as we

have proved above.

The great effects produced by quickfilver feem to proceed from its increasing the whole of the animal excretions, and thus carrying off the virus of the pox, for the cure of which it is the most remarkable and certain; -and, indeed, it has been, and still continues to be, by many, confidered for this difease a SPECIFIC; -but as it will not, by utfelf, in all cases, cure that complaint, nor prevent the venereal poison from taking effect, even in conflitutions loaded with it, that idea must fall to the ground.

Though quickfilver, in its original state, is inactive respecting the human machine, and only has been given in this flate to conquer oblinate obliructions of the intestines, though inesticaciously, still from mechanical division, as united with viscid, oleaginous, or uncluous fubitances, rubbed down with dry powder calcined, or united with different acids, forming mercurial falts, it has been rendered extremely active; and though preparations

of this abound, the chief use are confined to a few.

Gummous mercurial pill, MERCURIAL pill,

QUICKSILVER acetated,

Calcined, five fublimate Mild muriated

CALOMEL prepared, QUICKSILVER with chalk White calx of quickfilver, or white precipitate,

Sulphurated quickfilver, or æthiops mineral,

Red fulphurated quickfilver, or factitious cinnabar,

Red nitrated quickfilver, or red precipitate,

Vitriolated quickfilver, or turpeth mineral,

Quickfilver ointment,

from 20 to 30 grains. from 8 to 12 grains. from I to 6 grains.

from 1 of a grain to 2 grains.

Muriated, or corro- from 1-8 of a grain to 1 grain.

21-2 a grain to 2 grains or more.

from 5 to 20 grains.

too acrid for internal ufe.

from 10 grains to 40.

used chiefly in fumigation.

used as a destroyer of fungous flesh, or for dressing venereal ulcers.

from I grain to 4.

from external use-from 1-2 a dram to 2 drams.

Now

Now feveral of these preparations are appropriated to different purposes. The MILDER SORT, as alterants—

Gummous pill Mercurial pill Acetated quickfilver Quickfilver with chalk;

or the more active preparations in very minute doses, which in this view are confidered as the most efficacious.

As a purgative, calomel claims the preference, joined with rhubarb or some other of that class—in doses of from 3 to 8 or ten grains; and in smaller doses as deobstruent and alterant.

In venereal cases, the gum and mercurial pill-calomel-corrofive sublimate dissolved in brandy-calcined mercury joined

with opium --- are chiefly had recourse to.

Against the itch, the white precipitate, made into an oint-

ment.

The quickfilver ointment is also used for raising a sallivation where thought necessary, or loading the constitution sufficiently without producing that effect, for the cure of venereal com-

plaints.

Indeed calomel, and some other of the active preparations, have proved efficacious in the early stages of inflammatory complaints of the breast, brain, pleura, &c. when given freely, in repeated doses, sometimes with, sometimes without opium; which has been, in these cases, rendered more effectual by joining small doses of the antimonial powder along with it. In spasmodic complaints, united with camphor and opium, they have been said to be effectual—as also in dropsical cases, given in conjunction with diuretics and aromatics, particularly the squill pill. But these we shall particularize more minutely when we come to treat of diseases to which they are appropriated.

Now, from keeping in view the peculiar virtues of this medicine, the reason will readily occur why in a variety of complaints it is so beneficial---as in the venereal disease---glandular obstructions—cutaneous complaints—obstructed menses—dropsy—worms —some inflammations of the lungs and other parts, properly applied, and judiciously united with other well-adapted reme-

dies.

Thus much have I thought requifite to fay relative to this for extensively useful a remedy; though in this place we should confider it merely as a promoter of the fallvary discharge, in order that we may be better prepared for discovering its utility in a variety of different cases, on which we shall in future treat. Here it stands as a sialagogue, and the only internal one of which we make use—the others in this catalogue are stilled topical, from their

their promoting the flow of faliva from external application—the principal of which are

Squills Tobacco Angelica Cloves Mafter-wart Pellitory.

From what has been faid, we shall readily discover their utility to consist in diminishing the force of the blood against parts morbidly affected in the neighbourhood of the falivary glands; and also the action of the vessels when morbidly increased in the neighbouring parts, as in some cases of tooth-ach and rheumatic affections; and in promoting the circulation of the blood freely through the salivary glands when morbidly obstructed there:—Besides, as they so freely promote evacuation, they will be beneficial in evacuating morbid accumulations of serum; in producing a thorough change in the sluids of the body when morbidly vitiated.

But when there appears to be an uncommon determination to the falivary glands—any præternatural fensibility in the glands when the farous part in the circulatory fluids is defective—or there is a high degree of inanition, or general debility of the fyf-

tem, we must avoid using them.

6. EXPECTORANTS, so named from the Latin word expectora, to throw out of the breast, or expectorate; and are all such substances as expel morbid matter through the windpipe adhering in its branches, called bronchia (28, 29,) of the lungs.

To promote which purpose, several particulars are necessary to be observed. It is required, first, that the matter contained within them should be rendered moveable, and capable of being expectorated, taking care that the most sluid part should not be dissipated, less the remainder should be less too viscid, and not easily pumped up from the lungs;—hence medicines to heating and stimulating are hurtful;—Second, that the passages of the lungs should be open, cleansed, and lubricated;—Third, that the excretion of the offending matter should be promoted, which is best performed by coughing, to which end proper stimulus, and proportionate strength are required;—Fourthly, that the obstructed vessels should have rest, by which means they may be relaxed—for should they be continually irritated, the humour from the glands of the windpipe would be ejected with a fort of pain.

To accomplish the FIRST intent, all aromatic bitters, and, at the same time, mild oleaginous substances are necessary, such as hore-hound, hyssop, elecampane, pennyroyal, valerian, &c. and sulphureous medicines mixed with alkalies---all fixed saponace-ous materials, as Venice soap in pills, or mixed with milk;---

all volatile oily foaps, and volatile fixed falts, and, in general, all

diluents and stimulants mixed together.

For the SECOND purpose, we must apply to aperients and detergents, as oil of poppies, almonds, olives, honey particularly, as it is aperient, inciding, attenuant, detergent, and lubricating ---here also belong emulsions, soaps, yolks of eggs, with oily substances, saccharine substances, at least in small doses; likewise balsams, as that of turpentine, Peru, Gilead, Copaiva, &c. which act both as stimulant and subricating---to these we may add all relaxing and emollient decostions.

For the THIRD are useful all those which excite a cough, as wine, vinegar, acrid spirits, sternutatories, squills, gum ammo-

niac, &c.

And, for the LAST, demulcents, anodynes, and narcotics, are proper, of which the principal is opium; for when the windpipe is once exceriated, it is easily thrown into violent spasms, and cough, which cannot be restrained by that powerful sedative.

However, we may in general observe, where there is no inflammatory tendency, and the moving powers are torpid, some of the stronger stimulants are extremely useful, and are the things which chiefly contribute to promote expectoration; but they should be very cautiously used in diseases of the breast, and particular care taken, that the habit be free from any inslammatory disposition, or, at least that no inslammation is fixed there---for where these take place, relaxing the vessels, and taking off the spasses is all that is wanted, for in such constitutions the mucus itself supplies sufficient irritation, either from its acrimony or weight, or distension of the cells of the lungs.

From what has been faid, the utility of expectorants appears ---when the fecretion of mucus in the lungs is obviously diminished, by promoting that fecretion, and rendering the mucus thinner, when too thick or viscid---where the excretion is infufficient, by evacuating morbid accumulations of mucus in the lungs, and supplying irritation to that organ when defective.

When the lungs labour under a state of morbid insensibility, by removing that, and promoting a free circulation through

them, when it is there morbidly impeded.

But when there is a high degree of increased sensibility in the lungs, and an uncommon quick excretion of mucus from them, the stimulant expectorants ought to be prohibited; and when there is too great a state of torpor, of the relaxing ones we should by no means make use.

Our general catalogue of Expector ANTS, of which we shall furnish, for the reasons above advanced, a proper division, con-

fifts of

Hystop, Hore-hound, Ground-ivy, Penny-Colt's foot, royal, chiefly used in infusion Gum Ammoniac or decoction, iweetened with honey Garlie Muffard Horfe-radish

Onions Leeks

Balfam of Copiava

Gum Guaiacum Squills Myrrh Afafætida Opium Tobacco fmoke Acid vapours Blifters Warm baths to the feet Watery vapours received into the lungs.

Now, as we find expectoration is to be promoted by different means, agreeable to the cause acting in the lungs; and as our felection here has such different properties, all of which are calculated to promote the defired end by judicious application, a division of them, agreeable to their powers, becomes necessary. FIRST, into fuch as act by stimulating the lungs taken inter-

The infusions of Hystop,

Ground-ivy, Hore-hound. Coltsfoot.

Pennyroyal, made into tea, and sweetened with honey.

GARLIC,

Mustard, Horfe-radish, Onions, Leeks. Balsam Copiava, Gum Guaiacum-

Powder. Tincture, ----MYRRH-Powder, a clove of it taken now and then in fubstance, formed into pills, or made into fyrup.

eat plentifully with other viands.

Dole, 20 to 40 drops on fugar.

from 6 to 20 grains. 1-2 a dram to I dram. 10 grains to 60.

SECOND, such as all from taking off spalmodic affections-Asa fœtida See catalogue of Antispas-Gum Ammoniac, modics. OPIUM See Sedative. BLISTERS,

WARM baths to the feet, WATERY vapour inhaled into the lungs.

THIRD

THIRD, such as irritate— Tobacco smoke,

ACID VAPOURS.

FOURTH, such as subricate and relax. See the catalogue of Demulcents, all which belong to this place.

§ 7. EMETICS. This is a Greek word, from emeo, vomo, to vomit; by the Latins they are called vomitoria, and are all fuch substances which, by their action, cause the stomach to re-

ject its contents upwards.

The effects produced by this action have been divided into eight heads; in confidering which we shall be enabled to perceive the utility to be derived from the application of these remedies; on which, as we go along, we shall furnish some remarks necessary for the more clear elucidation of different parts of the

fubject :

FIRST. "Vomiting evacuates the contents of the stomach itself; though it is not easy to know when that is fully performed. Many have got into a method of promoting few repetitions in vomiting, and giving small ablutions; but it has by others been thought that frequent ablutions are required to clear the folds of various matters, or mucus, which may be detained within them."

If we wish to evacuate the contents of the stomach completely, frequent and copious ablutions are certainly right; but it is sometimes necessary to give gentle shocks only to promote some particular purposes, and these must be often repeated, so that it would be hurtful to push vomiting to its extent, as, from violent straining of that organ, it would become too relaxed, and our intent frustrated; for it is from the repetition of the operation gently, not from unloading the stomach, success is expected.

SECONDLY. " Vomiting causes a flow of liquids to the sto-

mach, clears it, and emulges its mucus glands." And,

THIRDLY. "It not only emulges the mucus follicles of the flomach, and promotes a flow of gattric liquor, but has the fame effect on the neighbouring glands, especially the sweetbread and the liver."

FOURTHLY. "Whilst the vomiting continues, it not only inverts the regular motion of the stomach, called peristalcic but also of the intestines, which pour out their mucus to be carried

to the stomach, and evacuated with its contents.

"Hence do we find vomits useful in loosenesses and dysenteries; but, independent of that, they are benesicial, more probably, as purging the intestines, occasioning a greater flow of liquors into the intestinal canal. If the vomiting ceases, the increased fecretion is carried off by stool, so that at any rate the adherent

foulness is washed away, by squeezing the tract of the intestines."

FIFTHLY. "Vomiting squeezes, and occasions a constriction

of the whole abdominal vifcera, especially the mesenteric glands, (46) and in consequence pumps the whole Lymphatic system;—on this account increases absorption, as well as from its evacuating property; hence for these purposes emetics answer equally well with purgatives, and may be useful in dropsical cases."

But here we should be careful no strong visceral obstructions hath taken place, or any great acrimony in the humours, and tenderness of the vascular system, for in these cases they may be

productive of the most fatal effects.

SIXTHLY. Dr. Cullen thinks, "vomiting has the power off affecting the kidneys, for as irritation of the kidney will produce vomiting, so, on the other hand, it is reasonable to think, that vomiting may also act upon the kidney—hence it would seems

useful in propelling stones in the kidneys."

Notwithstanding some have recourse to such a practice, and it; appears imitative of nature, still I should conceive it almost always a dangerous experiment, always doubtful, and often not necessary; for if the stone should be so impacted with the kidney that it; cannot pass, irritation on the part would be strongly increased, of course pain and instammation in similar proportion, most likely abscess, and their consequences. Besides, we can never be certain whether the stone is of such a size as to pass through the ureters (30) by any propulsive force; and if it should, by relaxing the ureters as much as we can, by proper remedies, we are more likely to produce the effect, and certain to avoid all danger from too rash a practice;—however, if the attempt at propulsion was to be made, every means should be previously used to render the passages as distensible as possible before the trial:—but of this we shall have occasion to treat more fully in future.

SEVENTHLY. " But the effects are extended, perhaps, to the viscera of the chest, as expectoration has been promoted by vo-

miting."

EIGHTHLY. "It also increases the constriction of the fauces, and forcibly emulges the whole of the falivary glands. It has had the effect of those medicines called masticatories, which, by chewing and increasing a discharge of saliva, relieve rheumatic assections of the head, tooth-ach, &c.

"By preventing infpiration, vomiting occasions a regurgitation of the blood at the end of expiration. The accumulating blood, which usually happens, produced by vomiting, is only momentary, and may be soon counterpoised, as will be seen by considering its advantageous effects on the system in general.

" During the time of vomiting, the pulse is small, weak, and

inter-

intermitting; but when it is over, if the stimulus continues, the sirculation is increased, a fullness and softness of the pulse, a determination of the sluids to the surface of the body, and sweat; —this last may be supposed to proceed from an increased circulation, but Dr. Cullen thinks it may also from the consent of the stomach and surface; and that autispassodic virtue takes place with regard to the extreme vessels, which is illustrated from this; that emetics combined with other antispassodics, (148) as opium, increase the power, so that combined they become more essections diaphoretics," or promoters of insensible perspiration or sweat, "than each when alone."

These are their primary esseds, which, if we consider closely, will be productive of a variety of others, infinitely a greater number, than by any class of medicines with which we are acquainted; and indeed from them I have seen the most serviceable consequences accrue. Not but I think their use, in many cases, should be considered with the nicest caution; for advantageous as they are, when properly applied—in the hands of ignorance,

or inconfiderate raffinels, they become too often fatal.

If we consider the general shock which emetics give to the syllem, the evacuations they produce from the stomach, and the effects they have upon the nervous power, we shall be convinced of their utility; by restoring equality to the circulation, producing lymphatic absorption, and removing obstructions in the ystem of blood vessels—and in these senses they may be considered as irritators of the babit;—as evacuants, from cleaving the stomach of its contents, and morbid accumulations of secreted matters lodged there, and discharging also serous accumulations in different parts of the machine:—as antispasmodics, from stimulating the nervous system, and the moving powers through the machine in general, and also obviating violent affections of the nervous power.

But in all cases of ruptures, or relaxations of containing membranes—in local inflammations of the internal viscera—a high degree of morbid debility in these—and in fixed obstructions, anconquerable by the force of the circulation, it has been advis-

ed that their use should be avoided.

Still, notwithstanding all these prohibitions, so apparently well sounded, from the consideration of the action of emetics, yet they have been administered in cases of schirrhous viscera, in local inflammations, and supernatural essusions of blood; though a the two latter they should never be attempted without first pleeding; though perhaps hæmorrhages may now and then require this operation; but of these there are very rare instances,

as they are almost constantly attended by an inflammatory dispofition of the constitution.

In all congestions of the head, they are said to be dangerous, in apoplexy, palfy, and in smaller collections in the veins of the brain. They would, doubtless, be extremely dangerous where these maladies arise from too great sanguinary plenitude; but where from mere weakness of the nervous system, or inability of the moving powers, I should prefer their use to other remedies, at least on their first appearance; nor should I hesitate in prescribing them in serous collections, where I was not assaid of any great relaxation of the vessels, or system of the solids.

The class of EMETICS in use are not namerous—indeed, three or four, where we consider their action only in this point of view, are sufficient, arranging them according to their mode of opera-

tion, or peculiar appropriation.

If expeditious vomiting is required, without much regard to

more extended action, White vitriol, Blue vitriol,

Dofe, from 10 to 20 grains. 2 to 6 grains.

Infusion of tobacco,

i ounce to a point of boiling water—I ounce or more to a dofe, will be sufficient.

If fomething more is wanted, particularly a determination of

Tartarized antimony,
Antimonial wine,
Wine of tartarized antimony
Ipecacuanha-Powder,
Tincture,

Dose 1 grain to 5.
3 drams to 6.
1 dram to 2.
5 to 20 grains.
2 to 12 drams:

And in venereal cases;

Vitriolated quickfilver, or Dofe 1 to 4 grains.

In large doses, some of the vegetable bitters and cathartics come under this class, as do also squills, asarabacca, fox-glove, mustrad, and horse-radish. Strong infusions of the two last are given with success in torpid, cold, phlegmatic habits.

Systematic writers hence, from their peculiar power, have

divided them into

IRRITATING EMETICS-as'

Tartarized antimony,
Vitriolated zinc, or white vitriol,
Quickfilver, or curpeth mineral.

EVACU-

EVACUATING—as
Ipecacuanha, — Afarabacca, — Squills.
HEATING—as
Mustard, — Horse-radish.
NARCOTIC—as
Tobacco, — Fox-glove.

§ 8. The next fet of medicines in our catalogue are CATHAR-TICS, so named from the Greek word cathairo, purgo, to purge,

and comprize all fuch medicines as evacuate by stool.

Purging, fays BOERHAAVE, is an evacuation of all those things which can be thrown out of the body by stool from any part of the machine. And most authors have been very prolix on this subject, as the operation seems to be, and really is, of such material consequence to the constitution.

However, we shall content outselves with a more concise view of their effects, and from thence be sussiciently empowered

to deduce their utility.

By their operation they unload the intestines, and increase the motion of the bowels downwards; by which means they clear the intestinal glands, and derive a greater quantity of liquids, into them; they also empty the stomach downwards; they evacuate the pancreas and liver, and affect the spleen, and all the viscera of the lower belly; they promote the absorption of watery and other thin sluids, stagnating in any cavity; and, by continuance, purge the whole body; but in this last case induce debility, if too long persevered in; hence are preserable to other evacuants.

They are apt to produce inflammation in the parts on which they immediately act. They cause revulsion from the head, by determining the blood into the large artery of the body, called the descending aorta, (29, 30) and hence may be useful as promoters of the menstrual discharge, washing of virulence in gonorthea, in ulcers, by evacuating the system in general; and in those of the inserior parts, by causing a greater flow of liquids to the part. They excite, or, at least, increase inflammation in the intestines, nay some propagate the same over the system; and, when thrown into the blood, are most of them expectorant and diaretic, causing evacuation of phlegm from the chest, and urine through the kidneys.

Now these purgative effects are produced chiefly by such things as irritate the fibres and muscular parts of the intestines; but passions of the mind will also promote intestinal discharge; and some will have that occasioned from smell alone, others from external application, some from the diminution of insensible perspiration, but this happens in a moist thick atmosphere, and others

from elernal motion, as that of a ship or carriage; upon the whole, it is tolerably conclusive, that purging arises from intef-

tinal stimulus, either mental or corporeal.

But, notwithstanding the use of purgatives are so very salutary in their different degrees, according to the causes requiring them, yet, by being too frequently renewed, they are apt to weaken the tone of the intestines, and indeed their sensibility. Hence are produced, if we add the consequences of evacuation, often

irregular spafmodic affections.

Dr. Cullen fays, that all purgatives are endowed with an inflammatory acrimony, not only exciting it in the part to which they are applied, but acting in the fame manner, as poisons; their stimulus, extended to the system, produces and aggravates fever, and an inflammatory disposition; and as it is chiefly directed to the rectum, they increase the piles, and extend their irritation to the passage from the neck of the bladder, called urestbra.

We are led to discover, from the concise view we have taken of the subject, from whence their utility arises;—First, as evacuants from removing any morbid retention of the contents of the stomach and intestines—diminishing the quantity of circulating sluids, when too abundant for the state of the system at that time—and carrying off morbid accumulations of serum. Seconder, as stimulants, by promoting the free circulation through the intestines in those cases where it is morbidly impeded—diminishing the force of the blood against parts morbidly affected—removing torpor in the muscular sibres of the intestines—and restraining inordinate motion in these muscular sibres, by stimulating them to regular and more constant action.

But we find that some of these have, besides the powers enumerated, those which are cooling, astringent, and emollient.

Hence, should there be in the bowels any high degree of irritability, and the circulation should there be morbidly accelerated, of the stimulating class we should make no use—if the circulation should be uncommonly slow and languid, those which are stilled cooling will be improper—if habitual costiveness be an error of the habit, the astringents must be wrong—and where uncommon relaxation of the intestines is prevalent, the emollient ou, ht not to be applied.

The whole catalogue of Purgatives are Evacuants, and in this view differ only in degrees of power. The MILDEST of which are all acescent fruits.

Of the SECOND ORDER are Tamarinds, Cassia, Sugar, Honey, Manna, Water drank copisopiously, Milk whey, Butter-milk, Spinage, Bete, Cabbage, Succory, Dandelion, Endive, Lettuce, Celery, Asparagus, Artichoke, Mushroom.

Of the THIRD

All mild animal and vegetable oils, Venice Soap, Mustard, Sulphur, Animal Bile, Gum Guaiaeum, Tartar, fixed alkaline Salts, neutral Salts, Magnesia, if it meets with an acid, not otherwise.

Of the FOURTH-or more acrid,

Aloes, Rhubarb, Senna, Jalap, Scammony, Buckthorn Berries, Gamboge, Hedge Hyffop, Bitter Apple, Wild Cucumber.

Of the FIFTH-or most acrid,

Solutions of Gold or Silver in particular acids; but these, from the violence of their effects, are out of use.

Emetics also got into the bowels prove purgative.

But as we find great use may be derived from a judicious selection under particular circumstances, we shall pursue the subsequent divisions.

COOLING APERIENTS AND PURGATIVES.

Acefcent Fruits
Sugar
Honey
Water drank copioufly
Milk Whey
Butter-milk.

Spinage
Bete
Cabbage
Succory
Endive
Lettuce
Afparagus

Salary Artichoke Muthrooms.

These may be considered as food proper to assist in promoting the desired purpose.

TAMARINDS—
CASSIA—Electuary,
TARTAR—

taken in ptisan or decoction, dose, 1 to 6 drams.

purified, Crystal of Tartar, MAGNESIA, } 1 to 3 drams or more.
10 to 30 grains.

NEUTRAL SALTS.

ACETATED Kali, or diuretic Salt, from 1 to 2 drams. TARTARIZED Kali, or foluble Tartar, 2 to 0 drams. VITRIOLATED Kali, or polichreft Salt, 1 to 3 drams.

TAR-

TARTARIZED Natron, or Ro- }6 drams to I ounce.

VITRIOLATED Nation, or Glauber's Salts,

Erson Salt,

SULPHUR—

The Date of Salts of

The Flowers washed,
Precipitated, or Milk of
Sulphur,

from 1 scruple to a dram.

1 1-2 scruple to 1 1-2 dram.

EMOLLIENT APERIENTS AND PURGATIVES.

All bland animal and vegetable Oils, the most powerful of which are

CAS FOR Oil,

Dose, from 1 dram to 1 ounce.

and, except this, few are given alone with this intent, but only
to affist in the operation of other purgatives, where lubricating
or relaxing materials are requisite.

MANNA,

from 1-2 an ounce to 2 ounces.

ASTRINGENT APERIENTS AND PURGATIVES.

Though almost all the smart purgatives leave the body costive after their operation is over, the aloetic medicines excepted, still the restringent power, when wished to succeed, is chiefly confined to

RHUBARB-Powder.

Russia, East India, Vinous Tincture, Spirituous Tincture,

Roses-Syrup of

1 feruple to 1 dram.

} 1-2 an ounce to 1 1-2 ounce.

2 drams to 3 or 4 for children; to adults it is feldom given with this intent.

STIMULANT APERIENTS AND PURGATIVES.

MUSTARD-

Infused in wine,
ANIMAL Bile,
Gum Guaiacum—Powder,
HEDGE Hyssop—
Powder—Extract,

BITTER APPLE-

Compound Extract,
WILD Cucumbers—
Inspissated Juice,

a table spoonful gently aperient.

1-2 a dram to a dram.

from 10 to 20 grains.

5 grains to 10.

10 to 25 grains.

I-2 a grain to 3.

ALOES-

ALOES-

Wine of Aloes. Tincture of Alges.

Aloetic pill with Myrrh,

SENNA-

Powder, Ex ract.

SENNA-Tincture.

ALAP-

Powder, Extract,

Tincture,

Rezin,

SCAMMONY -

from 5 to 15 grains. 6 drams to 2 ounces. 6 drams to 2 ounces. 10 to 30 grains.

from 1 dram to 2 scruples.

from 2 drams to 1 ounce.

Compound Powder, from 1 to 2 feruples.

10 grains to 20. 10 grains to 20. 2 to 3 drams. 5 grains to 10.

Compound Powder, from 10 to 15 grains. Powder with Aloes, 5 to 10 grains. with Calomel, from & to 20 grains.

BUCKTHORN Berries-

Syrup,

GAMBOGE,

from an ounce to I ounce. from 2 to 10 grains-better mixed with calomel.

Before we close the account of Cathartics, it may be of some use to observe: that, as in all constitutions, and all diseases where too great an intestinal discharge does not constitute the complaint; and a moderate evacuation from the bowels is absolutely requifite; or in fome a more copious one, it is necessary that we should be acquainted with the particular nature of the purgative employed: that whilst we are attempting to be of fervice, by promoting the intessinal discharge, we may know what sluid each medicine will evacuate the most powerfully, and not in other respects be detrimental to the constitution by an improper choice—as in cases of inflammatory complaints, it would be very injudicious to order purgatives highly stimulant; fo in those of bilious obstructions of the liver from thick viscid inert bile, to have recourse to the serous and lymphatic purgatives would be injurious; as by these, though the intention respecting the operation might be right, we should rather increase the original cause of the malady, by an improper election of the medicines of which we made use. However, here we only mention the necessity of fuch a specification, which we shall point out, on treating of particular defects of conflitution, which require the necessary discrimination.

6 9. DIURETICS, taken from the Greek word dioureo, permeo, to make water, are all fuch substances as cause urine to be

fecreted

fecreted by the kidneys, and excreted by the bladder, which last

is the repository for that fluid.

Notwithstanding the great labour different authors have bestowed in properly selecting this class of medicines, and the considence with which many have spoken respecting their operations, still their effects are indisputably uncertain.

How fome things pass off by urine to immediately after be-

ing taken into the flomach, is still a matter of dispute.

Some aftringents have been considered of the diuretic class, from their action; and doubtless have produced this way very good effects, as the leaves of the bear's wortle berry, and bitters; nay some have publicly declared the power of aftringents in expelling a calculus. As diuretics act not by dissolving the blood, but by their local or sympathetic stimulus under some circumstances, I see no reason why aftringents may not become diuretics in relaxed and torpid habits—many of the operations of the animal economy may be produced by relieving the parts from any defect they may labour under, which defect may re-

tard, or prohibit their action.

Palfy of the kidneys will hinder a fecretion of urine; torpidity in those parts of the system, or relaxation, will proportionally weaken their power, which being removed, they will be enabled to ast; and certainly astringents bid fair to produce the defired effect. However, in order to be acquainted with their utility, we must now inquire what are the general effects produced on the fystem by their application; where there is a Superabundant quantity of serous fluids in the blood, and the abforbents appear to be in too inactive a state, they become beneficial, by removing the former, and increasing the absorbent power of the lymphatic fystem-hence drawing off water accumulated and stagnating in any of the cavities of the body. In fcorbutic habits, they remove morbid acrimony from the blood, by carrying off the faline and putrescent particles of the mais of blood, which are generally dissolved in the serous part of that fluid - and when there is a superabundance of circulating liquids too great for the state of the system, by diminishing them they become ferviceable-hence we find, their chief action is to promote evacuation.

When the natural fecretion of urine is morbidly defective, they reflore that fecretion, by foliciting a flow of fluids to the kidneys, and hence diminish other fecretions when morbidly augmented: and hence remove obstructions in the canals of the urinary passages, and from them wash out all acrimony.

But, in order to promote their operation, they thould be given

in the most dilute state; we might say, it is always proper to throw in with them much aqueous sluid, except in cases of dropsy; and, even in this case, there have been cures performed by drinking large quantities of mineral and common water. But where the intention of any medicine is to pass off by urine, the patient should walk gently in a cool air, and avoid all situations calculated to produce a determination of sluids to the skin; for there is so intimate a connection between the kidneys and the skin, that diuretic medicines, when thrown into the habit, will often prove strong promoters of insensible perspiration.

According to the particular nature of the separate action of diureties, we shall be enabled to judge where they are impro-

pet.

Should there be too high a degree of fentibility in the kidneys, a confiderable increase of urine, or any fixed obstructions in the urinary passages, the administration of those which are stimulant

must be disadvantageous.

If there should be a deficiency of serous sluids in the system, the above also are improper, and those of the cooling class—but where there is a redundancy of serosity, the prohibition of dilu-

ent diuretics are fairly pointed out.

Though we know not of any of this class that will always infallibly exert its diuretic power, still the catalogue given us by a variety of authors is extensively prolix;—we shall select such as are considered the most efficacious according to the particular states of the constitutions which may require them;—and these we shall comprise under three heads—of stimulant, cooling—and diluent.

Of the FIRST CLASS, or STIMULANTS, are

Nasturtium Horse-radish Asparagus Turnip Radish

Onion Celery Parsley-seed.

All these may be taken as food, in

decoction or infusion.

Fennel-feed
Leek
Garlic,
Balfam of Copaiva,
Hedge Hyssop,
Wake Robin,

JUNIPER BERRIES,

Spirits of,

See Expectorants.

See Stimulants.

1 or 2 ounces in a pint of water, boiled or infused.

from 1-2 an ounce to 1 ounce.

Oil,

Oil. QUASSIA WOOD-Powder,

Infusion,

BROOM-Infusion, Decoction. Extract,

GRASS and ROOTS ---

WILD VINE --- Powder,

Decoction,

TOBACCO---Squills --- Powder, Fresh Root, Pill.

MEADOW SAFFRON ---Oxymel, Fox-GLOVE --- Powder,

Infusion,

BATH WATERS, HARROWGATE WATERS, from 2 to 10 drops.

10 to 20 grains. 1 or 2 drams to a pint of water, 2 ounces the dofe. 1-2 an ounce to a pint of water --- dofe 1 ounce. 1-2 a dram to a dram. 4 ounces to a quart boiled to a pint. 15 to 30 grains. 4 drams to 1 pint boiled down from I 1-2 pint-dole, 2 ounces. See Sedatives. from 1 to 6 grains. 5 to 20 grains. 8 grains to 15.

from 1-2 a dram to a dram. 1-2 a grain to 2 grains. I dram to 1.2 a pint of boiling water -- 1-2 an ounce to an ounce the dofe.

Stimulant and diluent.

The COOLING CLASS are,

NITRE ---Æthereal, or fweet spirit of, from 10 to 30 drops. AMBER --- Salt. DIURETIC SALT---FIXED SAL AMMONIAC ---CREAM OF TARTAR---ADIDS ... Fermented,

MINERAL ACIDS ---

Native,

from 5 to 30 grains. from 5 to 15 grains. 6 or 8 to 30 grains. Is to 20 grains. 1-2 a dram to a dram.

1 dram to 1-2 a ounce.

3 drops to 6.

The following, of this class, we confider as acting on the principle of neutral falts, from the union with the acids they meet with in the stomach and intestines :

TESTACEOUS ANIMALS-

Crabs,
Lobsters,
Cockles,
Mussels,
Oysters,
Scollop,

Periwinkle,

These are taken by way of food.

SOAP-

KALI, or vegetable Alkali,

ABSORBENT EARTHS-

Crabs Claws,

Eyes,. Hartshorn prepared,

Chalk,

r scruple to 1-2 ounce. from 5 to 30 grains.

from 10 to 30 grains.

LIME WATER- 2 to 4 ounces.

The diluent are-which also may be esteemed cooling-all the

fweet acefcent fruits ;

Dandelion Endive

Lettuce

Corn Sallad Artichoke

MALVERN WATER,
CHELTENHAM WATERS,

Potatoes Boiled Onion

Water

Milk Whey.

on DIAPHORETICS, derived from the Greek diaphoreo, transfero, to carry through, include all such substances as increase perspiration, or sweat. This class used to be divided from sudorifics, or such medicines as promoted sensible perspiration, but unnecessarily; for they seem only to differ in their degrees of action, promoting the same effect, more or less copiously or perceptibly. But as different purposes may be answered by the different degrees of action of those parts which produce these effects, it may be necessary to make some specification respecting the two.

Infensible perspiration is promoted by all such materials as produce an astringent effect upon, or contract the solids in a moderate degree, by occasioning an increase of elasticity or springiness of the vessels, and thus promote the circulation—hence Peruvian bark—all the astringent roots—austere wines—come under this division, as do exercise which is moderate, either walking, riding on horseback, or in a carriage—mild stimulants, or

those of the stronger class weakened.

Or.

Or, by fuch things as determine the matter of perspiration to the skin, such as moderately warm air, temperate exercise, an equal circulation of the sluids when the body is at rest, as well as in motion.

Or, occasion such a temperature of the skin, that it shall neither be too relaxed nor more rigid than requisite---hence frictions, lotions, and detersion are recommended; and it is from producing this effect that these things are found so benesicial to the studious, inactive, and those who are advanced in life---unloading the system by those means, without weakening it in the smallest degree, but, on the contrary, increasing its power.

Now SWEATING is promoted by nearly the same means, for all such things as relax the vetlels, and determine powerfully to the skin, will produce this effect, whether internally or external-

ly applied.

Hence come under this class all those diuretics which act not upon the kidneys electively—warm water, or barley-water sweetened with honey, excite a copious sweat—a glass of cold water drank going to bed—also those things which take off spasm, whether they are demulcent, or moderate or correct acrimony, as opium—testaceous powders. All strong frictions, warm vapor, particularly of water, warm bathing, or whatever will render the skin relaxed or soft.

Nitre, and its preparations, and all those substances which dispose the vessels to act upon their contained shuids—thus vinegar sweetened with honey, and diluted with water, is the best sudorisic in acute cases, and was a favourite remedy prescribed by HIPPOGRATES, in the following form, called HYDROMEL, from udor, water, and mel, honey:

Take of Vinegar, } each one ounce.

Mace, a small portion, to give it an agreeable flavour.

Water, twelve or fourteen ounces; let this be drank
in bed after the manner of tea or coffee; and the patient there
wait the result.

Care though should be taken, that honey does not disagree with the constitution; for, where there is any natural antipathy, it is apt to produce violent affections on the stomach and bowels; sugar should therefore, in these cases, supply its place, or treacle will have a better effect. Whatever is taken hot, as well as heating aromatics, opiates, as also violent motion, are highly sudorisic.

Besides, such things as diminish the external pressure of the air, and those which increase the strength of the heart, with respect to its number and sorce of pulsations, come under the head

of sudorifies—such as Rhenish wine, fresh juice of citron, penetrating aromatics, volatile salts, &c.—those things which simulate externally, as all acrid matters applied to the skin, as vinegar and ginger, which is the most subtile and penetrating, and much recommended by HELMONT—and lassly, whatever, restores impeded motion in the internal parts, as passions and affections

of the mind reproduce retarded perspiration.

Though a number of the medicines mentioned above are stiled diaphoretics; still, strictly speaking, and considering them as fuch, independent of their connection with fudorifics we have no one of which we can speak with any certainty that has been tried by statical experiment, the only mode we have of discovering them, except ASA FOETIDA, as handed down to us by SANCTO-RIUS-yet I should suppose, that the power of all sudorifies weakened might be juftly confidered as disphoretics; for we find all those things which can increase the circulation, determine the fluids externally to the fkin, and take off the fpaim from the minute vefiels, are certainly entitled to the character of diaphoretics and sudorifies; and these three particular circumstances should be adverted to, when we want to promote a discharge of this fort for any good purpole; for though fimulants and fedatives, or medicines possessing both these powers, may in many cases be very proper, they may in some, conjunctively or separately confidered, be detrimental—and indeed there may be complaints where fweating would be improper, though the promotion of gentle perspiration might be useful, as in the scurvy but in the venereal disease, if the effect could be produced with eafe, fweating is the best method of cure, and preferable to either evacuation by stool, or salivation.

From what has been advanced, we shall find that all general stimulants of the system, as motion and heat, are powerful sudorifics;—particular ones are either applied to the excreto ies, those pores from whence the sweat issues, or to the parts consenting with them, as the stomach and intestines; hence their action

is either general, local, or fympathetic.

The catalogue of DIAPHORETICS contains

Burdock-Decoction, { 2 ounces in 3 pints boiled to 2, taken every 24 hours.

Powder, 1 dram.

SENECA, OF RATTLESNAKE-ROOT-

Powder,

Dose from 20 to 60 grains.

2 ounces in two pints of water
to 20-dose 1 to 2 ounces.

SNAKE ROOT-Tindure, from 1 to 2 drams.

Z 2 Powder,

180 ON MEDICINE. Powder. 10 grains to 1-2 a dram. GUAIACUM WOOD-5 2 ounces to 3 pints boiled to 2 Decoction, -dose 4 ounces. Gum. See Cathartics. Tincture. from 1 to 2 drams. CONTRAYERVA-Powder. from 10 to 30 grains. from 1-2 a dram to 2 drams. Compound, SARSAPARILLA---2 ounces to 4 in 3 pints of water Decoction, boiled to 2, from 4 to 8 ounces the dose. MEZEREON, OF SPURGE OLIVE ---1-2 an ounce in 6 pints of water boiled to 4 .--- Dofe, 1-2 a The bark of the root, pint. See Sedatives. OPIUM ---CAMPHOR, Musk, See Antispalmodics. SALT OF HARTSHORN, ASA FOETIDA, dole from 20 to 60 grains. ANTIMONY --- Lævigated, Calcined, 10 to 30 grains. Tartarized, 1-8 to 1-2 a grain. Glass of cerated. 2 to 20 grains. Precipitated sulphur of, 3 to 6 grains. ANTIMONIAL POWDER ---2 to 6. 10 drops to 50. Wine, ANTIMONY .-- Tartarized wine of, 20 drops to 40. 1-4 to 3 grains. IPECACUANHA---Wine, 30 to 40 drops. WATER-WINE -

VEGETABLE and NATIVE ACIDS-

ACETATED AMMONIA, from 2 to 6 drams. called Myndererus's Spirits,

dofe to to 30 drops. WATER OF AMMONIA, 5 to 10 grains. PREPARED AMMONIA,

Effential and Empyreumatic Oils-though they are feldom used

in this view, but more as cordials and antispasmodics.

From confidering the operation of medicines of this class, we shall find that their utility is derived from diverting the determination of the fluids, and preventing them from crowding the

nternal viscera—removing various causes, which obstruct or mpede the natural state of the circulation on the surface of the body, and there restoring the natural discharge—and also from heir evacuating power, lessening the quantity of the circulating luids, when too great for the powers of the system—restoring ymphatic absorption—and discharging any morbid accumulation of serum.

But should the system be uncommonly relaxed, a great inrease in the determination of sluids to the exterior surface of the nachine—a great want of sluids—or the force of the blood on he basis of the brain much debilitated, the prohibition of their se is obvious.

The last of which we have to treat in this section are

§ 11. EMMENAGOGUES, from the Greek words emmenascenses, and ago, duco, to produce the menstrual evacuations of romen; and all such medicines as have been supposed to pro-

uce this effect are comprehended under this title.

A great deal has been written, and much time wasted, by autors, in endeavouring to account for the precise manner in thich nature performs this operation in the female machine: the ally present satisfactory conclusion we have on this head is, that fullness of the uterine system, from a peculiar determination of the blood to that organ, a permeability in the uterine and varial vessels, and an increased impulsive power, all periodically xerted, are necessary for the salutary promotion of that discharge and when there arises a desciency in all or any of these particulars, obstructions will take place, which require the aid of nat class of medicines of which we are now to treat;—but as here are various purposes often to be answered, e'er we can romote the desired end, different medicines have been pointed ut, and formed into divisions according to their action.

Hence have we EMMENAGOGUES,

Stimulating-as

Antimony, - Quickfilver.

Irritating-

Aloes, - Sabine, - Cantharides.

Tonic and Astringent-

Iron, - Cold-bathing, - Exercise.

Antifpasmodic-

Afa feetida, — Caftor, ... Bathing the feet, and a variety of others, possessing similar powers to those here ecisied.

But in the application of these medicines, one thing is to be reticularly observed, that not any of them ought to be used at all times, that is, previous to, and when the menstruating period is at hand, except the astringent class and quicksilver.

The irritating and antispasmodic are only to be called in aid, when there is an aggravation of the symptoms, and an effort of nature at her accustomed time. The reason of which is clear-because the former are considered only as preparatory, that by their operation the constitution may be put into such a state, as to be enabled to feel, and answer to the effects produced by the more powerful and forcible action of such medicines as add vigour to the circulatory vessels, push forward the blood quickly and rapidly, and take off any obstructions which may be caused by some spasmodic affections.

According, then, to the difference of the conflitution we will

to relieve, fo mult we make our felection.

If it should be necessary to give Arength and firmness to the

Aftringents may be had recourse to---as iron, and its prepa

rations -- bark -- and bitters.

If to increase the force in the moving powers in general,

Cold bathing and quickfilver.

If to produce partial action by the same mode,

Local Stimulants ---

Partial warm baths---fomentations---stimulant vapor, or furmination of tobacco to the uterus---aloetic medicines---fætigums---cantharides---acrid purgatives---as they may communicate their stimulus to the part, either immediately, or communicate motion to the vascular system from the exertion of their action on the contiguous parts.

If to take off confiriction,

Antifpasmodics-

Ala fœtida --- caftor --- but particularly musk.

There is another class which we must have recourse to, part cularly where there appears to be a scarcity of the sanguinary mas in order, as far as in our power, to increase the general volume of suids, that the peculiar determination may with more easier be brought about, and this is the class of NUTRIENTS, selecting such to which the digestive powers of the constitution appearance adequate to assimilate.

If now we call to our recollection what has been deliveredthe means by which these appropriate remedies are rendere serviceable, will be—from promoting freely the circulation the blood in the neighbourhood of the uterus, when too muc obstructed there---from increasing the accumulation in the utrine vessels themselves, which is necessary to the menstrual dicharge—and removing morbid obstructions to the passage of blooin. oto the cavity of the uterus---also, from augmenting the strength of the system in general, particularly of the vessels of the uterus, then desective—and removing any spasmodic constriction taken lace in them.

But strong objections may often arise to the use of some of this lass—if the rectum should be in a particular irritable state—or here should be any local inflammatory affection, we must avoid hose which are irritating.—If the blood circulates with great orce, or there should be particular debility of any other parts, he stimulant must be avoided; nor must those denominated tonic e meddled withal, if there should be any morbid rigidity in the ystem.

Our catalogue of EMMENAGOGUES supplies the following ar-

cles :

CENNYROYAL,
RUE,
ABINE,
ASA FOETIDA,
JALBANUM,
AMMONIACUM,
AYRRH—

Tincture,

QUICKSILVER,

RON-Ruft prepared,

Tincture of muriated

Iron,

Wine of,
AMMONIACAL IRON—
FARTARIZED IRON—
VITRIOLATED IRON—

See Antispasmodics.

See Expectorants.
1-2 a dram to 2 drams.
See Sialagogues.
from 5 to 30 grains.
from 10 to 60 drops.

dose from 3 to 15 grains.

10 to 30 grains.

dose 3 grains to 20.

Cathartics—Diuretics—and Emetics—may, if we confider the nature of their actions, be fairly included, on particular occasions, in the lift of Emmenagogues.

C H A P. III.

WE are arrived at the third part of our arrangement, and must proceed now to treat on MEDICINES WHICH ACT UPON THE FLUIDS THROUGH THE SYSTEM, in the same manner as we have before spoken on those which acted upon the folids; and these include ATTENUANTS—INSPISSANTS—and DEMULCENTS—And, first, of

§ 1. ATTENUANTS, from the Latin attenuo, to make thin, perfectly

perfectly expresses the nature of all the medicines of this class, and comprehends whatever can be understood by diluting, inciding, and resolving medicaments; three terms into which this class have been, by many, divided, because they all contribute to render the sluids more thin and fluxile.

Butas this point may be accomplished in two ways, either by substances mixing with a sluid, and rendering it more thin, but not changing or altering the particles of which it was composed; or having the power of diminishing the cohesion of the blood, and thus tendering its texture less firm and tenacious; they may be certainly, and ought to be divided, according to

their action, into diluent and refolvent.

Among the first we cannot be properly said to have any other than water, which is productive of a variety of good effects upon the habit—but not merely by its diluting property, it acts more particularly, immediately, and universally, by its coldness. Now, as a diluent, it not only thins the sluids in the way we have above specified, but it assists digestion, (106) quenches thirst—is an universal vehicle for solid food, corrects acrimony—promotes shuid secretions—and is by many esteemed, much more than any other medicine, an universal remedy.

Now, as it is clear that all diluents should be more fluid than the humours which are by their intervention to be rendered thinner; and have at the same time, when mixed, the property of making them retain their acquired fluidity---we shall find, there

is not any thing except water that possesses this power.

Though wine---oil---faline fubstances---fermented spirits--and fome earthy fubliances have been faid to enjoy these virtues, still it is obvious, that they are defective, and have not them in that degree fo as to become really diluent .-- for wine, as a diluter, depends upon its watery particles joined with its flimulating power ... oil renders the mais of fluids rather more viscid -- faline substances resolve by their stimulus --- fermented fpirits are more apt to coagulate --- earths are of themselves solid and inert, and can never be taken in this view, but as they may mix with fome acidities in the Romach and intestines, and thus change their form, and become active from their affuming that of neutral falts, and with them may they be classed; therefore it is to water we must refort, when we wish to call in aid alone a purely diluting power -- to which, it has been faid, if we add gentle heat, or faline particles, as fea falt, Polychreft falt, fal ammoniac, or borax, we shall improve its power, by the addition of their stimulating effects, but this is adding a resolvent property --- Moderate motion is also said to improve its powers. But

But as for resolvents, they act by increasing the force of the moving powers by the stimulus they possess in a limited degree; for should they act violently, they would, by dislipating the thinner part of the fluids, render them thicker, and become incraffants; but by gently flimulating, though they produce evacuation, they permit the veffels to act more freely upon their contained fluids, and hence become resolvent.

On confidering the action of this class, we shall be empowered to discover, that their beneficial effects arise, from removing any morbid viscidity in the blood, and restoring a free circulation, when in the small vessels it is morbidly obstructed .-- from increasing the quantity of ferous evacuations, when too greatly diminished --and rendering them, when too thick and viscid, more fluid.

But their use must be prohibited in constitutions labouring under too great thinnels of the general mais of fluids -- having a propenlity to morbid ferous accumulations .-- or a remarkable

ARTICHOKE,

MUSHROOM,

CID FRUITS.

increase of fimilar secretions.

The catalogue of ATTENUANTS are,

WATER: MILK WHEY.

ALL LIQUIDS abounding with water,

CUCUMBERS, WHITE LILY ROOT,

MELONS, CELERY,

BETE,

SPINAGE. Boiled Onions,

CORN SALAD,

CABBAGE.

DANDELION.

ENDIVE. ALKALI ---

> Fixed vegetable, Fixed fossile, Volatile.

NEUTRAL SALTS---SOAP---

in finall dofes, and continued for fome time.

See Diuretics and Cathartics.

ENGLIH MEROURY,
And fome others. All the SWEET A.

6 2. INSPISSANTS --- thefe are also called Incrassants --from the Latin words inspisso and incrasso, to thicken. These terms, like the former, give us a perfect idea of their import--from whence we understand all such substances as give a degree of vife dity, to the circulating fluids.

From experience we know that our fluids do fometimes run into a state of morbid thinness; but by what means, is very

doubtful.

Some have supposed it to arise from too great a proportion of fluid aliment; whilst others have been led to believe, it originated from a retention of some of the serous secretions. But if we reflect, that children and many adults live upon food totally liquid almost, yet no fuch appearance is the refult; and that nature always supplies the defect of one secretion by the increase of fome other, and the retention must be partial, it cannot be univerfal; both these opinions seem by no means satisfactory.

I rather think that it is occasioned by a relaxation of the fyftem, particularly of some, or the whole of the digestive organs; for lirong, mufcular, laborious ruftics, whose digestive powers are good, have generally, nay, I believe always, the blood tending to the opposite extreme-whilst the more delicate and relaxed, whose digestive powers are weak, have the sanguinary mais 100 fluid: indeed people whose blood has possessed a proper texture, have, from illness, had it reduced to a flate manifesting a too weak cohesion, and that apparently by the system being de-

bilitated.

Whatever may be the cause, it is our business to remedy the effects; and thefe we attempt by reproducing a proper proportion of viscid fluids, and by increasing their attractive power one with another; and their consequences may, we think, be acquired by

the following catalogue of INSPISSANTS:

Wine, Acids vegetable -mineral, Alchohol, Radiffr,

Turnip, Carrot, Parfnip, Skirret. Potatoes, Leeks. Comfrey Root,

Cucumber, Poppy, and Melon Seed,

Farinaceous Grain, Mucilaginous and Oily

Substances, Sago, Salep,

Almonds, &c. Gum Arabie, -Tragacantly

Starch, Ifinglafs, Arrow Root, Animal Food,

Fill. Eggs.

All the Aftringents,

Onions, It has been remarked by fome authors, that acids --- wine --- alchohol --- and in some measure, the aftringents used internally, have been faid not to produce their inspillating effect; and should therefore only be employed externally, in cases of profuse bleedings; and that the nutritious and demulcent class, of which



part of the fluids from exerting themselves on the folids, so as-

to create pain, or other uneafy fenfations.

And it will appear then, that of all this class, in this view of the subject, are either mucilaginous, oily, or a composition of both; and these manifest their action immediately in the stomach or intestines; or, after having passed through the circulation, in

the fecretory organs.

For it is imagined, that acrimony takes not place in the blood vessels, but in the secretions, as the serum is thought to be the vehicle of acrid substances. These demulcents, therefore, mixed with the blood are separated with the serous, or thinner parts of the fluids, in those places of the fystem where fecretions happen; and thus, by enveloping the irritating particles, prevent

them from flimulating.

Thus they defend the kidneys, the lungs, the vessels of the vagina and uterus, in nephritic or gravelly complaints; in defluxions on the lungs; and cases of the whites; and are highly nfetul in hæmorrhages, which are often maintained by acrimony; for increased secretion of mucus is always acrid, till its thinner parts are diffipated, by lying some time-hence their use in coughs, defluxions on the breaft, the whites, and those difcharges after child-birth, called lochial.

Whatever good we may perceive can be derived from media cines of this nature, may be acquired from some of the following

telection of DEMULCENTS:

Larger Comfrey Root, Seeds of Cucumber,

Poppy, Melon,

Sugar, Honey, Raifins, Dates,

Figs,

Hips, Liquorice, Gum Arabic, - Tragacanth.

Starch. Ifinglass,

The Nutrients,

Emollients, and

Sedatives.

though these last can scarce be faid to act in the mode we have described of common demulcents; but rather take off the acrimony by diminishing the fensibility of parts; and produce a viscolity of the secreted fluids, it is obvious from the appearance of the matter, in those who have taken opiates, after their narcotic effects have ceafed.

And this I take to be owing to the veffels being by their power thrown into a state of torpor, and thus suffering the secreted fluid to become more denfe by its continuance, and confequently lefs acrimonious from the diffipation of its more ferous parts.

They have been divided into LENIENT DEMULCENTS, fuch as

Starch,



should they be of any service, I am persuaded it is more from their action communicated to the solids, particularly the mineral acids, than from any other cause. Perhaps the utility derived from the native acids depends more upon the fixed air, with which they are replete: for we have not a more powerful corrector of putrescent acrimony than this species of air.

They have been divided into vegetable and faline antalkalines --- but the better division is, into native, of which forrel, barberry, and tamarinds, form examples—and into artificial, as the a-

cid of vitriol, fea falt, nit, e, and vegetable.

The catalogue of ANTALKALINES, with which we are supplied, are,

SWEET ACESCENT FRUITS.

Pears,
Apples,
Oranges,
Lemons,
Strawberry,
Rafpberry,
Barberry,

Tamarinds,
Currants,
Grapes,
Cherries,
Raifins,
Dates,
Figs, &c.

MOST OF THE CULINARY PLANTS.

Cucumbers,
Melons,
Bete,
Spinage,
Corn Sallad,
Salary,
Afparagus,
Artichoke,
Radifh,
Turnip,
Carrot,

Cabbage,
Naflurtium,
Endive,
Dandelion,
Lettuce,
Parfnip,
Skirret,
Potatoes,
Leek,
Onion,
Garlic.

OLIVE, WATER DOCK, SORREL, &c. WINE.

VINEGAR, with the ARTIFICIAL MINERAL A. CIDS above specified.

SALT OF AMBER. See Diuretics.

And likewise the whole class of DEMULCENTS; but these act by mechanical, not chemical mixture—that is, from merely mixing with and sheathing the offending particles, not from altering them, by forming a new combination, so that each body loses, totally its natural properties, and becomes a third, differing from

both

oth-and, perhaps, some others here specified, may act in the me mechanical mode.

It will, from this concise view, appear obvious from whence he whole of the virtues of this class of medicines may be colected—and where their use ought to be prohibited—their power

f neutralizing alkalies.

For, ON THE ONE HAND, by this power they are capable of emoving any sensation of alkalescency in the first passages—reoring the natural disposition to acidity in the stomach—and preceding in the alimentary canal precentatural putrescency.—IN THE OTHER, if there should be, from an acid caute, any natural disposition in the stomach to that painful sensation, called ARDIALGIA, an uncommonly slow and languid circulation, or by considerable diminution of animal heat, these defects they ould increase; consequently, under such circumstances, ought

be prohibited.

ANTACIDA, Antacids, from anti, against, and acida, cids. These comprehend all alkalescent substances, most of the estate earths, and some neutral salts—and are such substances counteract acidity in the same manner as acids conquered alalies—and are in this light here only to be considered, as we are before taken notice of them with respect to their different perations in the habit, selected agreeable to their various powers, acting as stimulants, antispassmadics, attenuants, antiseptics, caractics, and diaretics—and in this place they seem chiefly to extended their essence only in the stomach, now and then, perhaps, in the intestines.

The catalogue of ANTACIDS with which we are presented, sheight to answer any purpose they are capable of effecting, are ESTACEOUS ANIMALS. See Diuretics.

NIMAL FOOD—
IME WATER—
HALK—
RABS EYES and CLAWS—

JENT HARTSHORN-

Dose 6 ounces to 16 in a day.

prepared, from 10 grains to 2

drams.

Decoction of,

pared __ } from 10 grains to 2 drams.

LEALI-Vegetable,

Fossile, called So- from 5 to 30 or 40 grains.

Volatile,

from 3 to 20 grains.
from 4 to 10 or 12 grains.

ARTARIZED KALI, or Soluble TARTAR—

12 to 20 or 30 grains.

See Diuretics.

STIMULANTS—
ANTISPASMODICS—
SEDATIVES—and
DEMULCENTS—

Though most of these act by coming in contact with the prevailing acid immediately, without considering the solids—yet those under the general titles, except the demulcents, which become serviceable by their sheathing property, produce their effects by the influence they have on the moving powers, which we have in their proper places before specified.

As the action of these, like the former, is so very limited, only to be considered in this place as counteracting acidity in the first passages, we shall have occasion to say little more than will be sufficient to show where they will be beneficial, or in what

cases their exhibition would be improper.

When there is a morbid prevalence and fensation of sourness in the alimentary canal; when, from the same cause in the stormach, the natural appetite is vitiated, and the action of that organ and intestines is disordered, they are of service in removing the former, and restoring the two latter to their healthful standard.

But when there is a prevalence of alcalescency in the stomach and bowels, or a tendency to putridity in the general mass of blood, they must be highly detrimental. And, perhaps, in this last case, the mischief which would arise from their use may be more owing to the destruction of the acid in the first passages, than from joining in their alcalescent state with the sluids, as acids have been considered antiputrescent.

§ 3. ANTISEPTICS, from anti, against, feptica, putrefacientia, substances occasioning putrefaction. These include all such materials as obviate the too great putrescency of our

fluids.

Now as the putrescency of our humours may be brought on by excess of heat and motion, as well as receiving any putrid ferment into the vascular system—as it, when once fixed, and begun to exercise its deleterious action, induces languor and great debility in the moving powers, we may see the reason of our antiseptic class of medicines, exhibiting, according to the conception we have of their action, such apparently contradictory views—for in the same arrangement we shall find, that we have the volatile fait, and those of the neutral kind—the former considered as highly heating, and a strong stimulant of the moving powers—the other as cooling the system, and mitigating vascual ar motion.

From

From thence I prefume, that they are only applicable in different stages of putrescent action; or in different constitutions affected with putrefaction; -and not unlikely the fame may hold good with acids and alkalies, for they are both enumerated under antifpalmodics. Of thele different fubiliances it therefore behoves us to be careful in the application.

In the first stages, where a putrid tendency may be accompained with high degrees of circulatory motion and heat, or in conflitutions where these are prevalent, neutral falines and acefcents may be the most proper; but in languid babits, or those made such by the continuance of the enervating power of putrid particles, vo-

latiles and cordials challenge the preference.

Nitre has been faid to be froughy antifeptic, when applied to manimate animal matter, but not fo in the living fubject, as it lessens the powers of the vital actions - but this is only applicable in the advanced stage of putrescency; and it is to that state of the difease alone they must mean to advert, who advance, that cordials, and whatever invigorates the folids, by increasing the vital heat, are properly antiputrescent, and by what alone relief can be obtained in putrid complaints.

However, our chief intent in these cases is to keep up a due action of the moving powers, and a proper tone of the folids, that is, an active firmnefs-which effects, we conclude, may be

produced by the subsequent selection of ANTISEPTICS:

```
Those Fruits which have sweetness coupled with acidity,
  Cherries,
                        Oranges,
                        And fuch like.
  Apples,
                Acerb Fruits.
 Quinces,
                        Sloes, &c.
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Medlars,

Wine, Vinegar, Nitrous Muriatic See Diuretics, Salt of Amber,

Some Neutral, Mentalline, and Earthy, Essential Oils,

Empyrematic Oils. Acetated Litharge-from 1 to 3 diops. Alum-Page 139. Nitre-

a---- 176. Bb Alchohol, Quaffia,

All Vegetable Oil of Turpentine, Nutrients. Ale—Porter—Cyder

Aftringents, —Perry,
Stimulants, Camphor,
Sedatives, Afa Fætida,

Antispasmodics, Musk, Wormwood, Myrrh,

Chamomile,

but, in cases of languor, certainly the most eligible are, Wine-Bark---

Extract, Refin, dose from 12 to 1-2 dram.

Decoction, { 1 ounce to 2 pounds reduced to 1 pound --- dofe 2 ounces.

Bark---

Powder, 20 grains to 2 drams. Tincture, simple, 1 to 2 or 3 drams.

or Auxham's 1 to 2 or 3 drams.

They have been properly divided into fuch as are tonic, inereasing the activity and strength of the system, of which Peruvian Bark---Wormwood---and Chamomile are examples.

Such as are cooling---Acid Salines---Neutral Salts. Stimulant, as Wine-Alchohol---Oil of Turpentine. Antifpa modic, as Camphor---Afa feetida---Musk.

The utility of these are derived from resisting and correcting putresaction---by preventing the assimilating quality of any putrid ferment received into the machine---correcting the putrid disposition of the humours---obviating the progression of putrescency taking place in the solids---and restoring to a sound state

folids morbidly putrid.

But in cases where a peculiar sensibility of the stomach is prevalent, those called Tonic are to be avoided—the REFRIGERANT, where a debility of the vital powers are manifest—the STIMULANT, when we perceive too great a degree of irritability, circulation too highly accelerated, or strong disposition to profuse bleeding—and the SEDATIVE ANTISPASMODICS, when there is a too languid circulation, a lethargic disposition, or a considerable degree of torpor in the system.

CHAP. V.

IN our fifth and last division we include Medicines which produce their Consequences by external Application;—or on substances formed within the Machine, though lodged without the Verge of Circulation. The first of which we shall consider are,

of I. EPISPASTICS, or VESICATORIES, from epifpas, to draw, and vesicatorium, as raising a blister. They are therefore stimulants, in the first sense, locally such; and, if continued, be-

come evacuants.

But their action is not confined to those places where they immediately act; they communicate that action to the system in general, and often in particular to the urinary passages; but this effect is chiefly produced by cantharides, or Spanish slies.

They have been formed into three divisions, viz.

a. Such as only occasion heat in the part—of which class may be considered the slighter stimulants.

2. Such which create heat, with some degree of inflammation,

as Horse-radish-Mustard-Volatile alkali.

3. Those which raise blisters, as cantharides, Euphorbium ;--to which may be added a fourth.

4. Those which produce a discharge of pus, as Setons and

Iffaes.

They are often applied with different intents, either as they act on the nervous power, alter the balance of circulation, or produce evacuation; hence are their particular uses discoverable;—in removing torpidity, or languor in the system—conquering the effects of more than usual sensibility—decreasing violent pain—weakening the circulatory force of the blood against any part morbidly affected—and also of action in vessels of the neighbourhood of those to which they are applied. They also decrease the volume of the circulating sluids when too great in the habit, and evacuate morbid accumulation of serum.

But should the system be in general highly irritable, the blood præternaturally thick, or the sluids in general too defective in quantity, these circumstances demand the prohibition of their use.

§ 2. PHLEBOTOMIA, bleeding, from phleps, vena, a vein

or artery, and temno, feco, to cut.

Under this term are arranged all those modes by which blood is evacuated from the machine by the medical art; and these operations are considered as either producing general or partial B b 2

effects, by relieving the fystem in general, or only in some of its

parts.

The division of this class has commonly been general, and topical, or local; and instanced, in opening a vein, or an artery, as belong to the first; as to the second, scarifications, or cupping-glasses, which are called cruentæ, from the drawing blood—and the application of leeches; but the terms, it has been thought, would be more judiciously confined to the quantity taken, as veins or arteries must in all cases of blood-letting be opened. In general bleeding we commonly take away such a quantity as will in some degree decrease the power of the system—in local, such a proportion only as may contribute to relieve a part of the system mear which the operation is performed—or, we ought to make such distinctions, for the sake of propriety, by which we should understand, that in general bleeding, the larger branches of the veins or arteries are opened—in local, only the capillary, or very small branches.

From whence the use accruing from this operation is derived may be easily conceived—as it proceeds either from lessening the quantity of blood, altering the state of its motion, or changing

its courfe.

Hence it relieves in all cases where the mass of blood abounds too much in quantity; or, when there is a too great tension or distension of vessels in the system, when the force of circulation is highly increased, or the heat immoderate, or when in particular blood-vessels there is a morbid increase of action, or the force of the blood is too great against parts morbidly affected.

But where there is too great a fearcity of blood, the circulation remarkably weak or languid, or too great a debility in the voluntary motions---these are powerful objections to its use.

Though from this operation it is apparent that the highest advantages may accrue; and indeed, in many cases which are infiammatory, or arise from sanguinary convestion, nothing can be done essicationally without it; still I think it is made infinitely too free use of, especially in those places and climates where people are liable to fall into putrice, and some malignant complaints.

Where the patient is strong and athletic the pulse full and tense, and there appear evident signs of too great plenitude, it is univerfally right to bleed, otherwise there is some caution required;
for it very often hurries the habit into such a state of extreme debility, in some severs, that nothing can compensate the mischief

it occasions.

In all doubtful cases, therefore, where it may be thought ne-

to lay his finger on the pulse of the opposite wrist to that wherein the operation is performed; if, during the flowing of the blood, the pulse rises, it is an indication to persist; if it should flag, we

should immediately defist.

gainst, and elmins, vermis, a worm: or VERMIFUGES.—
Thus are called such substances as destroy or expel worms, whether situated in the gullet, in the passages to the stomach, the stomach itself, or the intestines; but, though it has been said, worms are formed in various parts of the machine, and have been found in different places, as the liver, kidneys, lungs, membrane surrounding loosely the heart, brain, cavities of the teeth, &c. we confine outselves to medicines which perform their office on those which lodge in the first passages.

BOERHAAVE used to divide this class into two, viz. those which destroy and those which expel worms;—but there may be cases where the exhibition of these may be improper, because of the particular state of the stomach and intestines being unable to bear their action—hence modern authors have more judiciously divid-

ed them into four heads:

FIRST. Those which are supposed to destroy, by poisoning

the worms, termed venenofa, poisonous as

QUICKSILVER— See Sialagogues.

Tin-Powder, dose 6 to 2

SULPHUR-Flowers of,

dole 6 to 20 grains or more.

See Cathartics.

SECOND. Those which expel worms, or cathartics,

SCAMMONY-

JALAP-

ALOES-

GAMBOGE-

See Cathartics.

THIRD. Those which have lubricating properties, called lubricantia, lubricating, as

OIL OF OLIVES-

LINSEED OIL-

FOURTH. Medicines supposed to have a tonic power, or giving activity and strength to the bowels, named tonica, as

SABINE-

30

See Emmenagogues.

WORM SEED-Powder, TANZEY-Infusion, dole 1-2 a dram to a dram.

1 a pint to 1 pint in 24 hours.

Powder,

10 to 30 grains or more.

Besides these there are a number of other articles exhibited for this purpose—

INDIAN PINK ROOT-

Powder,

FERN ROOT-Powder,

8 to 40 grains.

1 dram to 3.

COWHAGE-

COWHAGE-

the hairy part foraged off the pods, and mixed with fyrup, to the confiftence of an electuary, dole I to 2 tea-spoonf. in strong solution.

See Antispasmodics.

falt

SALT—
CAMPHOR—
BITTERS—OIL IN GLYSTERS—
HARROWGATE WATERS.

But I believe Calomel in general one of our most superior

vermifuges.

The utility of these medicines naturally result from their action on the worms themselves—also on the system—by which means they either destroy, expel, or prevent their generation in the machine.

But some exceptions may very properly arise to the use of each under particular circumstances—if the intestines should be in an inflamed state, or be abraded, the venerofa, or poisonous, should be avoided—the *lubricantia*, lubricating, if there should be accumulation of sordes in the first passages—if a peculiar sensibility of the stomach, the tonica—and the cathartic, if any topical instammatory affection should occupy the intestines, or should the constitution labour under any desciency of shuids.

§ 4. LITHONTRIPTICS, from lithos, lapis, a stone, and thrupto, frango, to break. By this term we should mean all such materials as dissolve the stone;—but our catalogue, under that idea, would not, I fear, comprehend any, notwithstanding the variety of pompous pretensions some have published on the certain existence of medicines endowed with this solvent property. But it is the general opinion of the candid and rational practitioners; that those who write now on the power of medicine, though they retain the term, only mean such substances as possess a power of removing the disposition in the hody to the formation of calculing the stone of calculations and calculing the stone of ca

ation of calculi, or flony concretions.

Indeed, we have had much faid on the dissolving power of alkalies and quick-lime—soap ley taken in broth freed from its fat—Mrs. Stevens's solvent, and lime water—for a long series of time; still sew have sound the wished-for success; but how far they may act as preventive remedies, as well as some others, cannot be possibly determined. From the use of bitters and the uva urs, or leaves of bear's wortle berry, in this view. I have known some benefit to arise in patients subject to gravelly complaints, from a collection of stony or gouty matter. Much is said at present of, and indeed the many experiments lately made seem to prove the utility of a solution of the VEGETABLE ALKALI, called kali, impregnated with fixed air, half a dram of the

falt given at each dose, dissolved in any proper liquid, twice a lay, and this increased to two drams or more, and continued for lome time.

They have, however, been divided into fuch as are ANTA-

CID, as

LIME WATER-

CAUSTIC ALKALI-

SOAP LEY--

KALI with fixed air,

6 ounces to 16 in the day. 20 grains to 1-2 an ounce. in veal broth---- to 30 drops.

in infulion, 2 ounces to a quart of water-dole, b to

Such as have an ASTRINGENT POWER, as

UVA URSI, or Bear's Wortle } See Astringents. Berry,

But it has been alledged, that all alkalies in general poffels this stone-dissolving power, therefore in their caustic state they are by some rejected; because they are apt to disagree with the tomach, and from thence are they obliged to be employed in too mall dotes.

As folvents, I am of opinion, little can be faid of the use of the class here enumerated; but as preventives, having a power to obviate the generation of flony concretions in the machine, they may be considered to be beneficial in two ways --- in alterng the state of the folids, by preventing a particular state of axity of the stomach, and in the kidney-and in producing such in effect upon the circulating fluids, that they become less liable to furnish stony materials to be secreted by the kidneys,

But certain objections will arise to the use of the antacids, if n the stomach there should be a disposition prevalent to generate alcalescency --- to the astringents, if there should be a rigidity, or

contraction in the coats of that organ.

On vermifuges and lithontriptics we have been more concile han on other parts of our subject; because they each are approoriated here only to the alleviation of fingle complaints specified under their respective heads; of which, when we come to reat hereafter, we shall be obliged to speak more fully; and enlarge more on the particular nature of the remedies in each rafe administered: at prefent it has therefore been thought luficient to furnish a general idea, in order to prepare our readers properly for more eafily understanding what we have to deliver on these heads.

And now we must observe; that, notwithstanding, in treating on medicines, we have enumerated a great variety, which many professors have thought essentially necessary to be produced; there have not been wanting some in the medical world, who feem to despise all this labour, as well as the authority of Hippocrates, Boerbaave, and all the men of eminence, who have been considered as shining ornaments of their profession; and publicly avow, that a very few medicines, properly applied, will serve every purpose of the medical art—and these are,

CANTHARIDES, used chiefly as blisters, CALOMEL, TARTARIZED ANTI-MONY, ALOES, SENNA,

JALAP,
SALTS,
OPIUM,
With the use of nutritious diet
and domestic cordials.

However, we cannot avoid confessing, that we think this catalogue infinitely too concise; particularly as there are some medicines omitted which have surprising effects, for which we cannot so readily account; but whose efficacy has been confirmed to us by practice; and others of which, from daily experience, we are forbid to doubt the utility. I would, therefore, in order to render the catalogue more complete, subjoin the following articles:

OIL OF CASTOR,
ANIMAL OIL,
OIL OF AMBER,
VOLATILE ALKALI,
FLOWERS OF ZINC,
WHITE VITRIOL,
PERUVIAN BARK,

Asa foetida,
Musk,
Camphor,
Ipecacuanha,
Iron,
Rhubarb,
Sabine.

Before I quit this subject, I would beg leave farther to observe, that though I have placed the doses of medicines as usually administered to adults; in all active medicines, I should recommend them to be given in small doses at first, and gradually increased, till we have arrived at the fullest that the constitution can bear with case, as the only mode of trying what good effect may be produced by their powers: and here we shall often find a surprising difference in the quantity necessary to promote the end desired—for I have known two grains of a very active medicine produce as powerful an effect on the constitution, as eight or ten would on another; and this knowledge can only be obtained by particular experience. Indeed, I have known complaints cured by the very same medicine under the management of one practitioner, that had failed in the hands of another; which on-

ly arose from the different modes of management respecting the

quantity administered.

With regard to the forms in which medicines ought to be exhibited, the intent to be answered should be particularly confidered; whether the expeditious or permanent action is most eligible—if the former, they should be given in liquid—if the latter, in solid forms—because in their dissufed state they act most

quickly.

For a very great variety become effectual by communicating their power from the flomach to the rest of the machine sympathetically; confequently the larger furface of the stomach they touch at the same time, and stronger their action, the quicker and more powerful will be their effect-In acute cases, therefore, these purposes will be best answered in a state of solution: but, on the contrary, in chronic cases, solid forms are preferable; because they occasion medicines to act flowly, and, of course, make that action more durable, by remaining longer on the ftomach; -befides, all medicines which are not eafily suspended in any liquid, should be administered in form of bolus-pill-electuary -or powder mixed with fyrup or fome other vifeid fubflance ;those which are volatile, very light, or readily miscible with any menstruum, should be given in mixture or draught. Where a greater proportion of any vegetable body is required than the ftomach can bear in powder, and where the active part can be extracted by water, decoction or infusion is the most proper;and all oleaginous fubstances require the addition of fome intermediate viscid body, to make them properly incorporate with watery fluids, or fyrups, and are most elegantly administered in form of emulsion or linetus.

Though some small dissibility may arise to readers slightly conversant in medical researches, on the perusal of this part of the work which treats on medicine—shill, by bestowing a little pains on each division—from the advantage they will receive, they will not find their labour ill bestowed—for they will be taught the simplest, most easy, and certain mode of prescribing, as well as the most powerful—they will also understand, from the knowledge of the different powers of medicine, not only where they are likely to be serviceable, but where they will be of dangerous contequences—a species of information which every man ought to posses, who dates venture to prescribe either for himself or others:—for the first law of physic is, NOT TO DO HARM IN ALL OUR EFFORTS TO DO GOOD; of which no man can be certain without he knows precisely the active properties of such medicines as he administers; and whether they are properly

adapted to the constitution, under the circumstances of the morbid attack which he labours to remedy.



SECTION VIII.

ON DISEASE IN GENERAL.

AVING finished those parts of our work which were considered as preparatory to the more complicated, we must now enter on an inquiry into the nature of diseases, with the best modes of discovering and curing them.—But, previous to this, it will be of use to say something general on the subject, in order to shew what is meant by disease—how discovered and distinguished—the different causes—with the indications of cure.

By DISEASE is meant a general or local affection, by which the fystem is disturbed, or the action of a part impeded, perverted, or destroyed—or, an appearance deviating from health, from some general, partial, or local affection, by which the system in general, or in a part, is oppressed or dissigured—and this is discovered and distinguished by an enumeration of certain symptoms or appearances with which it is always affociated.—But diseases differ; hence it is necessary to distinguish them from each other, with which they may seem to have a near affinity—this is done by the causes and peculiarities that are connected to them; and from whence the deviation arises.

The causes of the disease are threefold:

1. PREDISPOSING—When the constitution collectively, or in part, is in such a situation as is most favourable to produce discate; or to receive the impression made by its cause immediately considered;—and these are either

Inherent or hereditary,
Adventitions or accidental.

put into action, or brought about by the

2. Remote, or inducing, which depend upon the flate of their climate—fituation mode of life—indifcretion—or the elective power of morbid particles, called miasmata—virus—effluvia—occasioning the

3. PROXIMATE or IMMEDIATE, which are fuch as from their action

action constitute the immediate source of disease-and from whence arise the

INDICATIONS OF CURE, which confilts in the removal of the operating causes; or the preventing the constitution feeling too powerfully certain essects, till the matters occasioning them can be thrown out of the habit, either by the essorts of nature, or of art.

But the most eligible mode is the PREVENTIVE, acquired by the consideration of the remote or inducing causes, where practicable---and hence preventing predisposition from being rendered active, by intercepting these causes, or guarding the habit a-

gainst their influence.

This account, concile as it is, comprehends the whole practical part of medicine; from whence though shoot forth a variety
of branches, which we shall dispose under the following heads,
agreeable to such appearances as most strongly manifest themselves
to our perception, whether FEBRILE --INFLAMMATORY---PAINFUL--NERVOUS---or MENTAL---or where evacuations are contrary to, or more copious than what is natural, stiled FLUXES--where disticulty of breathing is the crying symptom, called ASTHMATIC---or where the complaint depends upon the humours of
the machine, or make their appearance upon the skin.

CHAP. I.

FEBRILE AFFECTIONS IN GENERAL.

ALL those are so considered where there is an alteration respecting the pulse and heat; for the most part, an increased
quickness of the former, and the latter augmented in some degree;
--many of the functions of the machine injured---particularly the
strength of the limbs diminished; attended with chillness, languor, lassitude, and other marks of weakness, without any local
primary disease.

Under this head are comprehended all the fevers, of whatever nature, by which the human frame is afflicted; but, as they put on different appearances, they are divided under diffinct heads,

according to those appearances, as

1. CONTINUED, OF CONTINENT,

2. REMITTENT,

2. INTERMITTENT,

4. HECTIC, and 5. ERUPTIVE.

In which order we shall purfue them ;—but we should first remark, that all those are called

CONTINUED FEVERS,

where they continue from their commencement to their termination without any intermission, remarkable remissions, or exacerbations, that is, increase of violence in the symptoms. To this class belong

1. The simple continued

2. Inflammatory

3. Nervous 4. Putrid > Fever.

5. Anomalous, or mixed

These severs in general begin with lassitude-coldness-shivering, but without tremor or grinding of the teeth, and heaviness
of the head-then the heat increases every day till the height,
with profration of strength, and a constant desire of lying down
-head ach-and thirst-no exacerbation or increase of sebrile affection, except from some perceptible cause. At the decline of
the disease, there appears a moisture, sweat, or some other evacuation.

With respect to sensation, the symptoms discover themselves by a sense of weariness all over the body-a heaviness, attended with giddiness of the head-head-ach-bad taste in the mouth-often as impersect, or depraved smell-a dissibility and tottering in motion --unwillingness to speak-a desire to keep in an horizontal position-a total want of, or scarce any appetite-great thirst-loathing of animal sood, or any solids-a desire for watery acidulated cold liquids-no laseivious inclination.

In the cold flate, breathing is small, quick, oppressed ;--in the hot, deeper and frequent ;--in the cold flate, the pulse is small, intermitting, interrupted, and frequent ;--in the bot, full and fre-

quent ; -- in the declenfion, full and undulating.

The faliva is small in quantity, clammy;—the mucus of the tongue, gums, and lips is greyish, rather yellow, and sometimes black—the urine in the course of the disease becomes hotter and turbid—there is a moitture in the skin and a sweat in the declenfrom of the sever—the mools are liquid, yellow, often setid—the rancus of the nose trisling; and sometimes from thence hæmor—thages issue.

Fevers of this kind are often ushered in with a coldness of the extremities and paleness of the face---very often without any shaking of the limbs ;--- after that there is a constant uniform

heat,

heat, for the most part, except that it is greater towards the beight; there is also in the declenfion a formers of the fkin.

This is the hillory of the continued order of fevers in general, with fuch things as appear in the vital and animal functions with respest to fensation, voluntary motion, appetite, respiration, and the pulse; and also in the excretions and qualities of the folid parts. .

Now as all the fevers of this kind have a greater or fmaller number of these symptoms attendant, under each head we must enumerate fuch as will best inform us to which it particularly belongs, that we may be best enabled to make proper distinctions; and as the simple continued fever is the least complicated, we thall begin with that.

6 1. SIMPLE CONTINUED, OR VASCULO-PLETHO-RIC, FEVER.

Such I would name it, because an increased action of the vascular lystem, and fullness of blood, are the immediate causes.

This fever is fometimes of very flight duration, terminating in one, at most, in three or four days, and seldom requiring any medical affiftance.

DESCRIPTION. It makes its attack very often suddenly. There is a light coldness-the whole body grows red, particularly the face, attended with fome turgefcence, and a vapourous warmth. The head-ach comes on fuddenly, the temples throb, the breathing is frequent, the pulse free, uninterrupted, quick, and full. In the decline of the difease, there appears a breathing fweat, with no remarkable change in the urine.

CAUSES. Whatever will supernaturally increase the action of the vessels, and induce too great fullness of blood in the habit, as errors in diet, too violent exercise, cold, suppression of some natural discharge, retention of some acrid matters offensive in the first passages, from some external injury, happening in an health-

ful constitution.

CURE. Medical aid is feldom in these cases necessary --- nature most commonly is the physician. Drinking copiously of watery liquids warm, fuch as tea, weak broths, lemonade, small negus; abstaining from all folid food; and lying in bed to encourage perspiration, will be all that is requisite.

Or, if medicine must be employed, faline mixtures, or nitrous

powders, may be had recourse to. (No. 1, 2.)

But should the fever put on more violent appearances --- should the pulse not only be full, but rather hard. with any confiderable degree of oppression and heat, and the skin dry; bleeding, according to the patient's strength, to the quantity of eight, ten,

or twelve ounces, may be advised---and, in case of costiveness, a cooling faline purgative (No. 3) may be administered, to produce three or sour evacuations; and in order to appease any hurry which perhaps it may occasion, a quieting draught in the even-

ing. (No. 4, 5.)

Suppose these should not succeed to our wish, and the symptoms before recited increase, the pulse excepted with respect to its sullness and hardness, these being in some degree abated; and the patient has passed a restless night; we must then sly to antimonials, as the most effectual in checking the violence of the server. The most eligible of which are, tartarized antimony, formerly called tartar emetic, or the antimonial powder of the last London Dispensatory, a medicine answering every purpose of Dr. James's Powder. (No. 6 to 9.)

The first dose of the mixture, (No. 8.) or the second, if it meets with any foulness of the stomach, generally excites vomiting, which should be encouraged by copious draughts of chamomile, or weak green tea, or thin gruel---and afterwards the mixture

continued.

It produces also in general a gentle sweat. One or two evacuations by stool, quiets the pulse, takes off the oppression and nausea; this, by its continuance, and ordering balm tea, barleywater, or some such diluting liquor, to be drank plentifully, ba-

nish, in common cases, every complaint.

But, notwithstanding all these efforts, should things wear a more unpromising aspect—should the sickness and oppression continue; the thirst, heat, and dryness of the skin increase; headach become intolerable; the patient very restless; the pulse keep up, or increase in fullness and hardness particularly, more blood must be taken away—though, should there be indications of great debility, and the pulse slag and grow low, it must be avoided—the feet may be put in warm water—and, in continuing the antimonials, great care must be taken that they do not operate too violently upwards or downwards, for these would aggravate the symptoms, or bring on a train of others of more serious confequence.

Under these circumstances, instead of the saline mixture before prescribed, the neutral volatile saline (No. 10.) is more eligible, because this, I think, determines more freely to the skin —and, trisling as the alteration may appear, I have seen changes

obviously for the better on its being administered.

Notwithstanding the above caution, if emetics have been omitted in the beginning, particularly if there has been any sicknels or nausea, they may be given at any period of the disease, if the strength of the patient will admit. (No, 11, 12.)

SYDEN

SYDENHAM fays, "If any one should inquire at what time of the fever I would have a vomit administered, I say positively, at the beginning; but should we be called in so late, which is often the case, that we could not at the beginning give a vomit to the patient for their relief, yet certainly I thought it expedient that it might be done at any time of the fever, if the disease has not so reduced the strength, that its violence cannot be borne.—I have," continues he, "ordered a vomit without hesitation on the twelsth day of a fever, when all the retchings had ceased; nor was it unattended with advantage."

But, to return to our subject. If, by the use of antimonials, the body should not be kept properly open, glysters, (No. 25, 26.)

should supply the defect, administered in the evening.

From this treatment, a continued fever of this kind feldom remains longer than the fifth day; but should it pursue its course to any later period, it is difficult to determine at what time it will cease.

Here we must be extremely cautious in our prognostic, both with respect to its duration and danger; for there are often in the constitution many latent mischiefs which do not shew them-felves; or some, which manifest themselves not immediately, may be brought upon the internal and vital parts by the sebrile exertions, that when we have a right to expect every savourable conclusion, these suddenly prevent the operations of nature,

and in an instant overturn all our flattering prospects.

However, if this fever goes not off on the fifth day, it feldom continues longer than the fourteenth—during that space, we are then to endeavour so to regulate the moving powers of the solids, that they may neither act too powerfully nor too weakly—hence are they to be supported in a state of moderation—and this we do by thin diet, subacid drinks, such as the stomach can bear and relish; as thin gruels, roasted apples, oranges, boiled turnips, and such like, continuing, under various forms, the use of the antimonial saline mixture.

Besides the attention we have to pay to the system in general, sometimes the head, stomach, and bowels require our notice, in order to alleviate the particular affections under which they labour—for the head now and then is greatly disordered—'listers applied between the shoulders, bathing and somenting the feet with warm water, bring in these cases relief, and dispote the patient to rest.

If fourness should affect the stomach and intestines, creating pain and slatulence, we should unite with our medicines some of the absorbent earths, as magnesia, chalk, hartshorn, crabs eyes



conveniences as above specified—he should eat often, but sparingly, take fresh air, and use moderate exercise, such as his strength
will admit, but never pursue it to satigue himself. Under such
prudent management, his spirits and vigour will return rapidly;
and he will every day perceive himself making large strides towards his usual state of health.

§ 2. INFLAMMATORY, or VASCULO-SANGUINEOUS INFLAMMATORY FEVER.

Because not only the same circumstances occur as in the former fever, with regard to the increased action of the vascular system, and fullness of blood—but the vessels have acquired a supernatural sirmness, and the blood too great tenacity, by which I un-

derstand an in inflammatory disposition.

DESCRIPTION. The patients at first feel as if they were wearied and had been beaten; are apparently weak, and have cold and hot fits alternating with each other; they tremble, and feel pains all over them, particularly in the shoulders, back, knees, and head : to these succeed an intense and burning heat, unextinguishable thirst; their eyes appear inflamed, with a redness and fullness of the face; they are fick and vomit; are also reftlefs and uneafy; the pulle is full and ftrong; the fkin dry; the arine for the most part high coloured, but sometimes like water; the tongue rough, dry, brown or black, and furred; blood drawn is very tenacious, and, on standing, covered with a coriaceous substance like buff-leather; they breathe with difficulty; the body is costive; they sometimes cough; are very watchful and delirious; a stupor and drowfiness come on; at last tremblings, twitching of the tendons, hiccough, and an involuntary emission of fæces and urine close the fatal scene. With regard to the heat, it is of a particular kind, which, though it affects the touch very fenfibly at first, yet seems to grow less violent the longer we hold the hand upon the fkin of the pati-

As to the pulse, its hardness, strength, and fullness, are in greater degrees than are to be met with in any other species of fever.

And the urine is not only high coloured, but sharp, and in

fmall quantities.

CAUSES. Those which are called the remote or inducing, are said to be, perspiration obstructed; sudden cold; too much exposure to the strong heat of the sun; satigue; anger; hard drinking; too long watching; cold water drank whilst the machine is hot; or, in sine, whatever can put the vessel into too strong and quick action, and for some time continue it.

Dd

The proximate or immediate, acrid and tenacious blood obftructing the very minute, ferous, and fanguinary veffels in different places and increased strength and activity of the vascular fystem, which the remote causes are concluded to confirm, as well as the appearances of blood taken away-the fymptomsmode of cure-and the infpection of dead bodies on diffectionfor in them the viscera are found in a state of inflammation and mortification.

Young people in the vigour of life, rustics, sanguineous habits, free luxurious livers, and all those possessed of strong stamina and tenacity of the circulating fluids, are most prone to fall into this

fever.

CHARACTERISTIC SIGNS. This fever generally attacks those who are formed with strong vigorous stamina and denfe blood :- it is concifely defined, a great increase of natural heat, a frequent, ftrong, hard pulfe, high-coloured mine, fometimes watery, and the functions of the fenforium a little diffurbed.

CURE. This is performed by weakening the strength and activity of the vafcular fystem, lessening the violence of their

action, and thinning the blood.

If we were to remove the irritating cause soon after it had exerted its action, there is no doubt but every good confequence would accrue; but that we cannot do in all cases, particularly when morbid particles have got to blended with the juices, that fome time is required before they can be properly prepared for being thrown out of the body ;- or, after the increased action had continued fo long, that it had by its effects contaminated the fluids; we therefore endeavour to put the frame in fuch a fituation, that no violent mischief shall be created by the progress of the disease; and thus give nature an opportunity of exerting her falutary efforts with effect, and enable her to throw out the offensive materials from the mass of fluids .-

For which purpose, if called in in the early stage, we depend upon bleeding copioully, and repeat it agreeable to the patient's ftrength; until the pulse is reduced to its proper standard-nor must we be deceived by the apparent oppression of the pulse, for by bleeding it becomes stronger-indeed apparent weakness and lofs of firength proceed fometimes from too great fullness; io that the volume of fluids feems too powerful for vafcular action; and unless this oppression is taken off, which bleeding most readily accomplishes, we should run the risque of their total cessation. Indeed, fo necessary is this operation at the onset of these fevers, that if it is omitted, the neglect can feldom be recovered during the whole courfe.

It is most proper before the fourth or fifth day, but, under

fome

fome circumstances, it may be performed at a later period—in difficult and oppressed breathing—violent pain of the head, with high delirium, succeeded by drowsiness, in full and strong habits—for these symptoms indicate an inslammation of the lungs, or a

fuperabundant load of blood in the brain.

Notwithstanding it may be right in any stage of the disease, it is only to be advised with extreme caution; for if this operation is carried to excess, so as greatly to weaken the patient, nature may be disqualished for throwing off the morbid matter at the time when the criss should come on; which matter is most naturally carried out of the body, either by discharges from the intestines, kidneys, or the pores of the skin.

With respect to the necessity of repeating the bleeding, we are to be directed by the urgency and continuance of the symptoms: therefore after the first bleeding in fix or eight hours, if the pulse should be nearly, or equally as hard and quick as before, and the other febrile symptoms similar, it may be repeated, though in smaller quantity, and even a third or fourth time, or more, un-

der similar circumstances, may be necessary.

We are next to advert to the state of the stomach and bowels:
—if there should be any oppression, nausea, sickness, statulence, or weight at the pit of the stomach, or fullness there—should the body be costive, we should attempt immediately to clear them of their contents by emetics, (No. 11.) and gentle purgatives. (No. 3. 22 to 24.)

But should there be any inflammation of the stomach or inteftines, vomits must be by all means avoided, as they might be suc-

ceeded by the most fatal confequences.

But should not any of the above symptoms occur, we must then endeavour only to take off the spasmodic affections of the skin, and promote perspiration, by creating gentle vomiting or nausea, by administering slight doses of antimonials alone, or mixed with saline mixture. (No. 6, 7, 8, 9.) Warm watery liquids should be drank copiously, the legs and thighs somented with slannels wrung out of warm water, or the same liquid thrown in by way of glyster; for these are highly beneficial in thinning the blood, and relaxing the too tense sibres. And here we must observe, that bleeding, where necessary, should always be performed before we exhibit a vomit, in order to take off the general sullness of the habit, and prevent any congestion or obstructions taking place by its operation in the brain.

In case of costiveness, we should add small doses of tartarized or vitriolated kali, tartarized natron to the antimonials, (No. 6, 7, 8, 9,) cassia draught, crystals of tartar whey, or insusan of ta-

marinds may be administered. (No. 22, 23, 24.)

We must next endeavour to allay the heat by vegetable acids mixed with small portions of nitre; and depend on such things as are cooling, diluent, and aperient; and correctors of any acrimony which may keep up the irritation-hence all animal fubstances are to be rejected, because they are apt to become too stimulant and heating-and for the support and affishance of nature, we must depend upon barley water-lemonade-apple-water-infusion of wood forrel-current jelly mixed with water-very weak white wine whey mixed mith Seltzer water-in any of which may be diffolved fmall portions of nitre, fo that four or five grains may be taken at a time; or the athereal spirit of nitre, ten or fifteen drops for a dose-or, the Hydromel of Hippocrates, (see page 178.) omitting the mace; for these are diluent, assist in quenching thirst, preventing the blood from becoming too acrimonious, help to diffolve its tenacity, confequently weaken the force of the vafcular fystem, abate the power of the circulation, take off spalmodic constriction, and promote perspiration; -and these liquids may be varied according to the pleafure of the patient.

Abstinence, as long as the strength will permit, should be advised; but if that becomes desective, it should be supported only by the most light liquid food. If solids be required, which is seldom the case, not any thing should be allowed except thin panada—water or barley-gruel—roasted apple, or boiled turnip. The sweet acescent fruits, when fully ripe, may be taken freely; for, as they abound with watery particles, are also diluting; and as those of the vegetable class afford less nutrition, consequently are less stimulant than such other things as approach nearer to

animal nature.

So long as the fymptoms continue firong, we must chiefly adhere to the saline medicines—antimonials and nitrous powders, (No. 1, 2, 6, 7, 8, 9.) giving the nitre as freely as the stomach will bear it, and varying the form as may be judged convenient; for these medicines are thought to correct acrimony, take off vascular constriction, and promote perspiration.

The room in which the patient lies should be spacious, and well ventilated with cool fresh air, impregnated with vinegar, the essure of fresh slowers, and a free circulation constantly permitted; taking care so to dispose the patient, that strong cur-

rents may be avoided.

The bed-cloaths should only, as in health, be moderate, the curtains not close drawn; and, in sine, every thing heating, and which can increase the force and quickness of the pulse, must be prohibited.

The patient should now and then be got up, he will be rendered less restless, preserve his strength more, and not so subject to increase increase of head-ach and delirium; for, by sitting up in an erect posture, the blood will circulate with less force towards the brain, than in an horizontal situation; and obstructions will not be so liable to be formed there, nor will the brain be so likely to suffer depression from a load of sluids.

After proper evacuations having been premifed, some advise the application of blifters; because, they dissolve the viscid

blood, open internal obstructions, and foften the pulse.

Others are of opinion, that they never can be right though a delirium should come on, if the pulse keeps full, hard, and quick; but think the head is better relieved by bathing the feet in warm water, or applying cloths squeezed out of it to them, and the infide of the thigh just above the knee—for the nervous system must be disturbed and agitated too freely where the heat continues great, the skin dry, with the pulse as represented-hence blifters, while such symptoms appear, and the sibres are too tense, will increase the mischief, from the additional stimulus they occasion.

In delicate constitutions, where there is great proneness to nervous incitability, and muscular irritability rather defective, blisters may be useful, by regulating the motion of the nervous power, and not being capable of producing any great effect on the muscular fibres—but, in strong athletic habits, I should think the practice dangerous; but yet, where the pulse in any constitution grows soft, and begins to slag, either from evacuations, or weakness of the system, brought on in the course of the sever, particularly if attended with drow/iness, or disposition to constant slumbering, towards the height or turn of the sever, at that time they will be found extremely beneficial—by rousing the nervous system, and assisting nature in producing a separation and ejection of the morbid cause.

Should what we have before advised prove ineffectual in preventing costiveness, as more powerful purgatives would be apt to raise too great a commotion, and impede nature in her falutatary efforts, we must have recourse to glysters. (No. 25, 26.)

Towards the evening, in almost all acute complaints, every fymptom increases much with respect to violence, and towards the morning abates; but when the turn of the fever is at hand, the violence continues more uniform throughout, nature appearing to exert her utmost efforts to conquer the disease, by throwing off the offending matter—hence the agitation of the whole machine is extremely severe.

If now the skin grows soft and moist, the tongue loses its dryness, the urine begins to deposit a whitish sediment, and becomes less high coloured, and soon after a more profuse sweat breaks out, the other fymptoms abating of their violence, we may expect a happy termination, should these occur upon a critical day, particularly if a found sleep comes on, followed by refreshment, loss of thirst, the tongue clearing away its foulness, and the head alleviated from its pain and uneasiness.

From these appearances we may conclude a crisis is begun; and in its progress, if the pulse grow gradually slower, falling some strokes in a minute below its healthful standard, we may be assured that things have taken a savourable turn, and that the

patient is fecure from danger.

But during this contest in the critical period, which will be for some days from the beginning to its termination, cordials may be thought necessary, the best of which is wine, given alone or in whey. If medicines to answer the purpose are thought more agreeable, to what we have delivered from No. 13 to 18, may be added other cordials.

But if I find nature in her critical intention points more to the kidneys than to the skin, I prefer joining the cordials to the solution of prepared kali and lemon juice, (No. 1.) if to the skin,

to that of prepared ammonia. (No. 27.)

But sometimes, from all our efforts, we are not even flattered with a favourable issue—however we must not despair—nature

often relieves herfelf at the moment we least expect it.

Therefore, when the constitution seems drooping, and nature appears almost exhausted, when general tremors come on, twitching of the tendons, delirium, and the patient parts with both faces and urine involuntarily-which appearances are always confidered to be the refult of frong nervous affections, giving the disease the most unhappy aspect—in this deplorable state we depend upon the repetition of blifters, applied in the following fuccession: 1st, to the back-2d, under the arms-3d, above the wrifts-4th, above the knees on the infide of the thighs-and, 5th, upon the head, if violent pain and much disturbance there, points out the rectitude of fuch an application-and likewise mustard poultices, called finapifms, to the feet, (No. 20.) and give volatile falts-camphor---musk. (No. 31 to 35.) in order to allay fome of those convulsive affections which present themselves at this period --- for which musk mixed with valerian is esteemed highly useful.

In cases of extreme languor, frake-root is a very valuable medicine, which may be given in infusion or powder. (No. 36,

37-)

As nature, under the violence of these oppressions, being relieved in one point, may have power probably to exert herself more generally from such relief, a VAFOR BATH, as it can be applied applied in a bed-chamber, and has in dangerous cases been known to seceed, may be tried, as it seems calculated to take off, by its

relaxing power, fpalmodic confriction.

Sometimes in this difease, at an early period, people will be much afflicted with the head-ach, delirium, watching, or drow-finess, bleeding at the temples with leeches—applying blisters there—having the head shaved and rubbed with vinegar—or portions of the lungs of a lamb applied warm to the head—blistering and somenting the legs, and applying mustard poultices to the soles of the feet, are useful auxiliaries to the general mode of cure above specified—as is also blistering the head:—or should they have any pains similar to those of pleuritic people,

applying a blifter over the part affected is beneficial.

Sometimes rheumatic affections will be a concomitant-in this cafe, large dofes of nitre will be nfeful-and should any dyfenteric appearances, fuch as uneasy pains in the bowels, propenfity to go to flool, without producing any evacuation; a grain or two of ipecacuanha, given now and then, may act as gentle aperient, folicit the discharge of the irritating matter, and carry it out of the bowels. To me it obviously appears, that these applications are only to alleviate the fymptoms ariling from the local affection of a part, from a more general cause; whilst, at the same time, we must persist in the general mode of cure ;why we endeavour at their particular alleviation, is to prevent nature from being disturbed in her operations by these distressing or anamalous symptoms; as by inattention to them the danger might be increased, and the malady prolonged; for these fymptoms, for the most part, are subdued by time alone, and the fever being kept within proper limits.

§ 3. NERVOUS FEVER.

This is so named because the nervous system appears to be the part most affected. It disfers from the inflammatory sever in the part of the constitution attacked, and occurs in such as are dissimilar. Here the nervous system is defective, attended with little or no intenseness of vascular motion; blood also poor and thin, and the nerves extremely incitable. This is also called the slow sever, because it is slow in its progress compared with other severs, patienlarly the foregoing.

DESCRIPTION. This fever makes its attack with dejection of spirits-loss of appetite-oppression-disturbed sleep, or restlessness-the patient often sighs and groans involuntarily-is frequently terrified, and affected with uncommon lassitude after exercise, the that should be slight, and at the same time has cold and hot sits succeed, and alternate with each other--he is troubled with nausea, and a vomiting of inspid phlegm, which come on in a few days after the attack, with giddiness and pain of the head-extreme profitation of strength-no remarkable heat-no thirst-the pulse is frequent, weak, and sometimes intermits-the tongue continues moist, white, and is covered over with a viscid mucus-there is an oppression at the pit of the stomach, and the breathing dissipations at the pit of the stomach, and the breathing dissipations at the same time that the feet are cold-the mind is slightly disturbed by ridiculous imaginations, which continues, but without any violent delirium-sometimes immoderate sweats break out, or colliquative, dissolving looseness comes on-the senses lose their quickness, and become dull and heavy-with anxiety and fainting attending.

Towards the close, when nature appears almost worn out by the continuance of the disease; the tongue trembles—the extremities grow cold—the nails livid—they lose the power of sight and hearing—the delirium is converted into stupor, and a lethargic disposition—the sæces and urine pass away involuntarily—twitching of the tendons comes on—and generally convulsions close the scene,

in death.

CAUSES. The remote or inducing causes are said to be relaxed fibres, and a weak nervous system—too powerful evacuations—salivations from taking mercury too frequently repeated --immoderate venery—mental affiliation—watching, and nocturnal study—moist and stagnant air of subterraneous jails and confined places; a crude and too thin diet, particularly of cold and watery fruit—watery and viscid drinks—rainy seasons—a moist and soft winter—and, in sine, all those things which by slow degrees debilitate the nervous system.

The proximate or immediate, great apparent incitability in the nervous fystem--a lentor, and viscidity of the serum, lymph--and thin humours with acrimony from contagion or obstruction--and a torpor, or defect of intenseness of motion in the vascular system; which are obvious from the blood taken away--phlegm thrown up from the stomach--and appearances agreeing with diseases arising from corrupted and contaminated serum. Hence it is supposed to exert its insuence upon the most minute, serous, lymphatic, and nervous vessels; but rather upon the whole brain, as the pale wan colour, paleness and dryness of ulcers, a deprivation of the senses, extreme debility, and suppurations in the brain upon dissection, point out.

CHARACTERISTIC SIGNS. In defining this disease, I should say, it was an affection of the nervous system, in which there was apparent incitability, with a thickness of the serum, lymph, and thin humours--a torpor, or defect of intenseness of

motion

motion in the vascular system, independent of nervous incitability, discoverable by slight chills-shivering-and uncertain slushings of heat-sinking and dejection of spirits-frequent involuntary sighing-general weakness-quick irregular pulse-pale coloured urine-remarkable propensity to spasmodic affections-no distressing thirst-sometimes retching, though nothing but simple

CURE. As affections of this kind will arise from different kinds of foulness in the first passages, if we are called in early, its progress is easily prevented, by gentle emetic, (No. 11, 12.) and small doses of rhubarb, manna, castor oil, and some such gentle aperients, (see Emollient, and aftringent Aperients, under Cathartics, page, 172.)—but if in too advanced a state, when the fever is completely formed, which is almost always the case, it

will purfue its course in spite of all our endeavours.

The indications of cure, are to guard the habit so far, that the worst essets may be prevented; and, as in inflammatory severs, we endeavour to weaken the system, we must in this attempt to invigorate the constitution, and support it by mild and proper cordial stimulants, not given at first of too powerful a nature.

Bleeding, apt to be applied on flight occasions, is here almost always injurious, no disease bearing that operation so badly. At the attack, we should wait for nature pointing out the precise disposition of the malady. Sometimes, indeed, in some epidemic constitutions of the air, when at the commencement it attacks habits which are full of blood, putting on the appearance of inflammatory affection, a few ounces may be taken away, but not repeated.

Where there feems to be a determination of blood to the head, disovered by pain, heaviness, and giddiness there, as sometimes happens, leeches may be applied to the temples; or cupping at the back part of the head may be had recourse to; but not on

trivial occasions.

There are some symptoms which shew themselves, such as disficult and oppressed breathing, and are called peripneumonic; but these arise not from an inflammatory cause; as the breath is not hot, nor is there any cough, nor different degrees of pain; but the pulse is small and contracted, and the extremities cold—these shew the affections to be nervous, not vascular;—bleeding would therefore be highly injurious. From their local, as well as general effects, mild emetics are certainly useful, from unloading the stomach of any viscid materials, and giving an opportunity for medicines to communicate their effects to the habit and nervous system more freely, by having the internal coat of that organ E e more openly exposed to their action—and here ipecacuanha is preferable to tartarized artimony, as it weakens less the influence

of the nervous system. (No. 38.)

The body should be kept open by gentle aperients (172) only, as common purges at the onset have produced finking of the spirits, faintings, and other distressing symptoms—or domestic glyssers, (No. 25.) may be administered, in case of costiveness, eve-

ry fecond or third day.

Blisters applied through the whole course of the disease, succeeding one another, with moderately cordial and diaphoretic medicines, (No. 27 to 29.) and a well-regulated diet, are what must be chiefly depended upon; for these dissolve the viscidity of the serum, invigorate the system, and render the nerves more uniform and powerful in their action—hence promote insensible perspiration, or a gentle moisture on the surface of the body; but they should not be pushed so far as to induce prosuse sweating, for a continued sweat exasperates the sever.

To the diet we should be particularly attentive, in order to support the strength of the patient; for these severs are apt to be of long duration; and this should be of the stimulant, cordial, and nutritious kind—of which the sick should be solicited, to

take frequently in moderate quantity.

White wine whey, thin gruel with wine in it, may be used freely, or wine and water—and particularly towards the termination, chicken broth, beef-tea, thin jellies of hartshorn, sago, and panada with wine. Indeed wine alone may be liberally administered, especially if the pulse grows soft upon its use, if there should be lowness, with a softness of the pulse, and a low drowfy delirium; for under these circumstances it produces sleep. I have known patients, particularly one lady, take three pints in 24 hours with advantage; but it has been affirmed, some quarts have been given in the same space of time.

All the liquids, if defired, may be drank cold, as they are only necessary to be prohibited in cases of local inslamma-

tion.

There is little doubt but a judicious and well-regulated diet, with the use of blisters, well-timed and well-applied, will perform a cure—taking care to keep the patient as quiet as possible both in body and mind—He should be kept only of a moderate warmth, neither exposed to too great heat or cold; and his spirits exhibitated as much as possible, by consolatory conversation of his medical attendants, and certain promises of recovery, diffipating all gloomy or unpleasant ideas.

With regard to the application of blifters, so great appears to their use, that some necessary rules should be pointed out.—

They

They should certainly, in order to reap the greatest benefit, be applied at first, as soon as we know the precise nature of the malady; but if neglected till the system manifests high degrees of incitability, discoverable from acuteness of sight, touch, and hearing; they must be omitted till some degree of insensibility makes its approach—for, in the first instance, they may prevent the accession, or alleviate the violence of the symptoms—in the second, they would increase them before the period stated.

As the blifters are only applied to promote stimulus, not any evacuation, because that would tend to debilitate the system, and he of differvice; therefore, as soon as the blifter is fully raised, it should be cut, the aqueous stuid let out, and nothing applied to the part to increase the discharge. In the first instance, some have advised them to be put upon the legs; but, in case of drow-finess and stupor, upon the head, and sinapisms to the feet; to which should the last give too great pain, they may be chang.

ed for poultices of milk and bread.

In order to relieve the peripheumonic symptoms, (217) blifters to the arms, thighs, or legs are proper, with gentle cordial medicines, (No. 13 to 15.) with the addition of acetated ammenia, or the cordial saline draught, (No. 27.) may be administered, cordial mixtures, or julep occasionally, (No. 13, to 15. 28, 29.)

or fal volatile, from 20 to 40 drops in mustard whey.

After the continuation of this fever for ten or twelve days, or longer, should a remission come on; that is, should it at times appear to abate much of its violence, and then come on again—or should sweats too much exhaust the patient, Peruvian bark, administered with cordials, is highly proper, in such forms as the stomach will best bear, either intused in wine, in decoction, or insused only in hot or cold water, (No. 39 to 49.)—though the first form is esteemed the best, sometimes it is more agreeable to the slomach in some other mode.

In the declention of this fever, where the remission or intermission was very distinct, Huxham gave the bark conjunctively with the saline draught, and found it more efficacious.

Bark also tends to prevent or check mortifications, which fometimes come on from pressure by long lying, blisters, or si-

napisms.

In cases of tremblings, twitching of the tendons, and convulfions, musk, in doles, according to the violence of the symptoms, and mixing it with valerian, as adding to its efficacy, (No. 31 to 35.) are beneficial.

In cases of looseness during the course of the complaint, if moderate, they may not be dangerous; still if profuse, they

should be checked, though not entirely stopped-they may be moderated by flight doses of rhubarb and opiates, or absorbent or stringent juleps. (No. 42, 43) The white decoction and red

wine will be a proper drink.

Or, we may endeavour to promote gentle sweat, in order to divert the fluids to the skin, by mild opiates, as camphorated tincture of opium, from twenty to forty drops, or the opiated confection, from one scruple to half a dram to a dose, may be added to any of the cordial mixtures, (No. 13 to 15. 28, 29.) and given as directed in the absorbent juleps.

And, lastly, if aphthæ, or thrush, should come on, attended with ulcerations of the throat, here detergent gargles are useful, (No. 44 to 47.) and gentle emetics, (No. 11, 12. 38.) But if swallowing is nearly obstructed by a quantity of viscid phlegm, stronger may be administered, which will be formed by increasing the dofe of ipecacuanha, or tartarized antimony in each.

Though, fhould a falivation come on without aphthæ, and that pretty freely, Dr. HUXHAM confiders it, as it really is, a favourable fign-for, fays he, " when this happens, with a kind-" ly moissure of the skin, I never despair of my patient, how-

" ever weak or flupid he may feem."

As there feems to be fo much danger in this fever, from the very beginning to the termination, it may afford fome benefit to be acquainted with those symptoms which may give us flattering hopes; and to know those from whose appearance we may

be enabled to prepare ourselves for the fatal catastrophe.

If the delirium should be slight, no great debility—if the pulse should, upon the administration of cordials, become more full; and about the termination of the difease, a gentle sweat or loofenefs, but particularly a falivation without aphthæ, come on-if any tumors appear about the ears—and a miliary eruption shews itself, without any profuse sweat having preceded, we may have reason to expect a favourable conclusion—but if a strong delirium should continue above four days—if there should be copious evacuations-a profuse unseasonable sweat from the cheft, head, and neck—the feet and legs only more dry and cold—twitching of the tendons-trembling of the hands and tongue-a colliquative or diffolving loofenels—with a weak pulie---loss of fight---and impeded deglutition, accompanied with an hiccough -- should the hands grow cold---the fauces livid---blood flow from the veffels --- and spots like flea-bites appear--- there can remain little hope of escaping the most fatal consequences.

With respect to a deafness coming on, it has been considered by some as a favourable omen, by others the reverse; at best it is but of dubious import, and not to be depended upon; for from

experi-

experience I can speak, that I have seen it an attendant symptom on both death and a recovery.

6. 4. PUTRID, OR SANGUINEO-PUTRESCENT FE-VER.

Which term I think applicable, because the mass of blood appears to be materially and principally concerned in this sever ---for in those of which we have before treated, the chief disturbance has been created primarily in the vascular and nervous system.

But it may be asked, how comes it that this fever sometimes begins its attack with strong symptoms of an inflammatory, at others of a nervous, sever? This variation happens most likely in its different degrees, adequate to the sirmer or looser cohesion

of the particles of blood.

For if putrid matter was to be generated in, or abforbed into the habit, whose blood was of a firm texture, and vascular system had proper tension, it would be longer before indications of absolute putridity having taken place in that constitution would present themselves, than if the nervous system had been in a state of relaxation, and the blood thin and poor. There can be little doubt of this fact---and that this deviation is owing entirely to the nature of one constitution being able to resist the effects of the putrid cause longer than the other. And, indeed, if we consider that those whom experience has pointed out to us most subject to this disease are, the insirm; such as labour severely, and live in a state of poverty; the luxurious and indolent; the pensive and melancholic; those who sit up late; those of cold phlegmatic constitutions; we shall need little other confirmation of our affertion.

DESCRIPTION. Here we shall enumerate the general catalogue of symptoms, and then specify such as bespeak its commencement; in order, as early as we can, to be enabled to distinguish this sever from the two foregoing, as success greatly depends upon this knowledge; they requiring essential deviations in some respects in our modes of cure—for the accomplishing of which much depends on the method of treatment at the onfet.

In this fever the heat of the body is intense, remittent, and gives a smarting sensation to the singers of those who apply the hand to the skin of the sick, though at first not so great as in in-slammatory severs, still daily increasing—the pulse intense, small, and unequal—there is a pulsation of the arteries, which run up into the head through the neck into the brain, and those of the



cularly the stomach and intestines, in an inslamed, and often in a mortified state.

CHARACTERISTIC SIGNS. In order to distinguish the putrid fever in its earliest attack, or very soon after, we must obferve, that the degrees of debility, oppression, and nausea are more considerable than in any other sever: the postration of strength sudden and violent has for its affociates extreme despondency, or insensibility, and want of apprehension to an uncommon degree,

which befpeaks great danger.

The loss of appetite, or loathing of food, sickness, languor, and dull pain, of the head, similar to what happens in the two former fevers before described, which attend, when it comes on, as it sometimes does gradually, are in the beginning always more severe and sudden than in the inflammatory, though seldom so much so as in the nervous sever. Besides, the smallness of the pulse, the dejection of spirits, the broken texture of the blood, the purple spots, and putrid state of the excrements, distinguish it from the inflammatory sever. The degree of heat, the very high-co-loured urine, the thirst, the spots, and putrescency, from the nervous sever: And its formation is rendered perceptible by coldness and shivering, which has for its associates nausea, vomiting, giddiness, consulton of the head, extreme and sudden prostration of strength.

CURE; The indications of which are, to endeavour to support the strength, counteract the putrescent acrimony, and regulate the action of the nervous system, by giving strength and activity to the debilitated sibres, correcting the putrid state of the

fluids, and promoting the discharge of morbid matter.

And under some circumstances, bleeding in this sever at the beginning has been advised, where it has attacked robust constitutions sull of blood; and here, perhaps, once it may be right; but not without the symptoms run to an alarming height, would I advise the operation; and then only in order to prevent the fatal effects which might be induced by the violence of some of them: for, though the pulse should be at first sull and strong, on taking away blood it soon sinks, and sometimes so much, that we labour in vain afterwards to get it raised. Without, therefore, we have evident signs of an inflammatory state of the blood, and that the brain, lungs, or some other of the vital parts are threatened with inflammation, we should never bleed—and, under the above circumstances, then only in the beginning should a few ounces be taken away, merely as an alleviator of a dangerous symptom.

Afterwards the first passages are to be cleared from their contents by gentle emetics, (No. 11.) giving small doses of autimo-

nials, and these repeated every second hour. (No. 6 to 9.) For wherever the symptoms, which seem to indicate the use of the lancet, are violently urgent, they alone are the safest applications. But we should be careful not to occasion profuse discharges, which may produce too great lowness. If the antimonials cause not too or three stools, a gentle aperient may be given, (No. 22 to 24—49 to 51.) or glysters, (No. 25, 26.) which may be re-

peated every third day.

These things being premised, our chief depedence is on such medicines as give strength and power to the system, and some of those called antiseptics; or correctors of putrescent acrimony, (Page 193, 194, 195) (No. 39 to 41, and 52 to 54.) particularly thole fruits which have fweetness coupled with acidity, (Page 193.)-the antiseptic whey, (No. 48.)-fermented, or mineral acids, (Page 194.) - camphor, (Page 149.) (No. 15. 54.) - and bark, (No. 39 to 41. 52. Page 194.) particularly, which has been known to produce a ftonishing effects in a highly-dissolving state of the blood, where hemorrhages have from that cause been produced. With these medicines we should begin, as soon as ever we perceive the diffolution of the blood has taken place, from the appearance of purple fpots or hæmorrhages; not waiting, as in other malignant fevers, for any remission; for it is on bark, camphor, and wine we must chiefly depend for success in these cases, coupled in some of hæmorrhages with astringents; to which we shall foon advert.

I would not advise, as in the cases of nervous fever, the use of thimulants in conjunction with bark, (No. 40, 41.) but where the nervous frstem appears to be extremely torpid; then, I think, they give great power to that, and render it more active; for I am fully perfuaded, that it produces its good effects, by giving firmnels to the folids, equability of action to the moving powers, preventing the effects of putrid diffolution, and enabling them to separate and throw off the morbid materials, rather than correcting the acrimony, or preferving the texture of the blood by any other means. And this feems in a great degree to be corroborated by the opinion of HUXHAM, when speaking of these fevers, whose practice in these complaints was very considerable, fays, " Though nature very frequently affects to discharge the " morbific matter in putrid malignant fevers by vomits and " flools, yet her more constant efforts are through the pores of " the fkin ;-and I folemly affert, I never faw these fevers com-" pletely carried off till more or less of a sweat ensued; if it " proves moderately warm, and equally diffused over the whole " body; if it comes on about the state of the difease, and the " pulse grows open, foft and calm a little before, and during its

" conti-

" continuance; but if very profuse, cold, clammy, or partial about the head or breast only, we have much more reason to fear than to hope from it. If profuse sweats break out in the beginning, they are generally pernicious, should a fever super-

Under the circumstances recited above, though blisters are said not to be useful in the beginning, because the nervous system shews no signs of torpor; yet are they often succeeded with happy effects, when people become stupid, drowsy, and insensible; and, indeed, at any time, if the pulse is very low, the urine and excrement pass off involuntarily, which I have observed

in an early stage.

Wine, as it is an universal cordial, so it is the best, which may be given liberally; amongst the most eligible of which are claret, red port, and old rhenish; or, where they cannot be had, from their dearness, ale or porter may be used. As for food, gruel, panada, sharpened with orange or lemon juice, roasted apples, fruit of all kinds—for drink, the wines above mentioned mixed with water, lemonade, orangeade, wine wheys of different forts, apple water mixed with wine, vinegar whey, old found cyder, and all those liquids of an acescent nature, or which correct putrescency, should be indulged in.

The room in which the fick is confined should be well ventilated, vinegar sprinkled on the beds, and round the room, fresh slowers and aromatic herbs strewed about; the patient should have clean linen often renewed, and the stools be removed as early as possible, whether they pass voluntarily or otherwise; for nothing refreshes the fick more than cool air and cleanli-

nels.

By the means here generally described we shall commonly so assist and invigorate the constitution, as to enable it to throw off the more morbid matter, which is done by various ways, but most frequently by sweat, to assist in which operation, Campho-Rated Vinegar is strongly recommended, (No. 55.) but, if joined with an opiate, Huxham says, it is the most certain sudo-risic in nature—the solution though, by itself, promotes perspiration and gentle sweat more certainly than any other medicine; besides where mild stimulants are necessary, it heats less than volatiles, or ardent spirits.

Nature sometimes contr ives the mode of expulsion for the morbid matter by the bowels, hence a diarrhoa, which, if attended with breathing sweats, or a warm moisture upon the skin, is always serviceable, and we may flatter ourselves that this is a suc-

celsful effort.

At others, she relieves the habit by abscesses, formation of

matter in different glands, (Page 25.) fuch as those under the ear, the arm-pits, or groin; or, by throwing down highly acrimonious and corrosive humours into the legs, about the hips, or mostly the lower part of the back, assisted in this effort by continually lying—hence is mortification of the integuments induced, forming thick sloughs, which leave deep, spreading ulcers, from a supply of a corrosive sluid called ichor. Here we must rely chiefly on Peruvian bark, to produce, by its invigorating power, a separation of the parts mortified.

But sometimes, whilst we are exerting ourselves to promote every good purpose, by a plan judiciously conceived, and well selected applications, some accidental occurrences will arise in different parts, which, if neglected, or judiciously managed, will frustrate our intent, and every effort of nature. Whatever, therefore, threatens to sink the patient, or disturb nature's general operations, must be, if possible, checked, or totally sub-

dued.

Should a bemorrhage, as sometimes happens, come on, vitriolic acid may be added to the bark decoction, (No. 53.) or it may be given with any other vehicle, or the common drink may be acidulated with it, and given pretty freely. Should not these succeed, alum, or alum-whey may be added, (Page 189.)

or given in powder. (No. 56.)

Should a profuse diarrhaa make its appearance, and give us leave to suppose that the constitution by this means would be enseebled, it must be restrained only gradually; for if we lock up the matter suddenly, without supplying some other more gentle mode of passage out of the machine for the corruped sluid, internal mischief might be occasioned in the intestines, by the

irritation it would there produce.

We must therefore endeavour to determine the sluids to the skin, by some well-adapted diaphoretics, (No. 57, 58.) and, at the same time, should the stools continue copious, and extremely seated, glysters of sixable air, with which some mild watery antiputrescent liquid is impregnated, or sixable air may be thrown up alone, for this is a powerful corrector of putrescent acrimony, and would take off the stimulus of those vessels which pour out their contents into the bowels, called exhalent, and render the medicines given more effectual in pushing forwards, or soliciting the humours to the skin.

Sometimes there will occur violent vomiting, which in this fe-

ver is not unuinal.

This ought to be restrained, and generally our success in the attempt will be pretty certain, by giving the saline draught in a slate of sermentation. (No. 59.)

By

By the means of this the offensive and foul matters in the stomach, and slexure of the duodenum, (42.) are supposed to be corrected, and thus, by removing part of the somes, (that is, matter which created the uneasy sensations of the stomach, and was a means of supporting the sebrile affections) of consequence lessen the nausea, and other symptoms indicative of its presence, as well as, in all probability, shorten the duration of the sever.

Another peculiar accident may happen, though perhaps very rarely, which we ought by all means to be guarded against. Bark, upon which we in this fever place such dependence, will not agree with all constitutions, decoction of pomegranate bark, and chamomile slowers, may supply its place, and is said to answer every purpose, (No. 60.)

Though it may be fometimes the case that bark will no agree with our patients in the common modes of administration, still I have never found but in some of its forms it may be made

to answer every purpose.

By beginning with the cold infusion, and gradually increasing its power, I have been enabled to administer it in all its com-

plicated forms, and produced its defired effects.

Eruptions of different colours, red, purple, black, dun, or greeninsh, called petechiæ, strike out sometimes toward the close, or
earlier, of different sizes; but these seldom bring any relief from
oppression, sickness, or other distressing symptoms—the redder
they are the better—and it is a savourable sign where those
which are of a black or violet colour become of a brighter colour; for these coloured spots bespeak a high degree of putrescent acrimony, and activity, bringing on a dangerous state of
sanguinary dissolution—so the change of colour to that which is
most savourable, shews the degree of mischief lessening, and their

causes growing weaker. About the eleventh or fourteenth day, miliary eruptions with a white appearance break forth; fometimes fucceeding profuse sweats, which not unfrequently happen at this time. feldom relieve; but if there appears a red, fmarting, itching rash, or large, fretting watery bladders, they are ferviceable. But we may have hopes of recovery from the breaking out of a scabby eruption about the nose, lips, and corners of the mouth-the more angry and hot it is, the more favourable the omen. these we may add, if the symptoms are mild-if a looseness or fætid sweat should break out at the decline of the disease, there is confiderably less danger, than where there is no thirst-the fauces inflamed-a large crop of black eruptions, which fuddenly recede-a laborious respiration after their eruption-a swelling of the belly with loofenels-foetid and ichorous stools-coldnefa Ff2

nels of the extremities-and convulfions-for these afford most

calamitous portents.

Indeed, with regard to the aphthæ or thrush, of whatever colour, they carry along with them no pleasing omen, when they break out on the inside of the mouth—for they are soon succeeded by putrid ulcerations of the throat, &c. bringing along with them difficulty of swallowing, and hiccough, in the first instance—afterwards, sætid, bloody, and dysenteric evacuations, probably from ulceration and mortification of the intestines.

But when patients have fortunately passed the stage of fatality, they often become dropsical, or have watery swellings in their legs, we must not, under these circumstances, depend on purgatives to evacuate the watery sluid, as in other dropsies—but bark, (Page 194.) steel, and the natural chalybeate waters. (Page 139.) to strengthen and invigorate the vascular system, and promote

absorption. (No. 61, 62.)

But, in order to prevent a relapse when the crisis is perfected, from putrescent or offensive matters accumulating in the first passages, a gentle purgative or two, (No; 2. 19, 20, 21.) is absolutely requisite—and a course of aromatic bitters, joined with chalybeates. (No. 63, 64, 65.) or some of the chalybeate waters, (Page 139.) with light, nutritious, easily digestible food. (Page 209.)

And here we must observe, that where we find any prevailing acid upon the stomach, we would advise steel to be given in sub-stance—where not, some of the chalybeate salts, of which the tartarized iron, (Page 139.) is supposed by some to be the best, and may be given instead of vitriolated iron—and it is said to have proved essications where all the others have sailed: and is more soluble in the animal shuids.

The medicines above prescribed, or some others of the same kind, are thought necessary, in order to recover the tone of the viscera, and enable the digestive powers to assume their wonted power—which being neglected, a foundation may be laid for chronic complaints, by the constitution's being loaded with acrimonious and ill-conditioned humours, and subjecting the patient to jaundice, dropsies, consumptions, or some such similar mischief.

We have now finished our account of simple fevers: and as we consider all the others, whatever their appellation, to belong to one of the foregoing, simply, or conjointly, we shall be under the necessity of having recourse to some of the modes of cure, here specified, in all; and have therefore chosen here to add the forms of medicines made use of in these severs, referring in the body of the work occasionally to the more general catalogue, that

our reader may be supplied with a larger number of materials,

from whence he may make his own felection.

Besides, he will, by closely studying these, be enabled to see the nature of medicinal combination; and will pave the way for his more readily understanding the management of severs in a more

complicated state.

Nevertheless, notwithstanding we think the remedies here supplied are sufficient for enabling the practitioner to be as useful as possible in all febrile affections, we shall make occasional additions in each, where any circumstances of advantage present themselves, either from their peculiarity, or any local affections with which they may be combined.

THE

FORMS OF MEDICINE

SIMPLE CONTINUED, INFLAMMATORY, NERVOUS, and PUTRID FEVERS.

No. 1. SALINE MIXTURE.

Take kali prepared,

Lemon juice, 2 ounces 2 drams.

Distilled or boiled Water, 5 ounces. Sugar, 2 drams.

Mix.—Dose. Four table spoonfuls every two or three hours.

2. NITROUS POWDER.

Take Nitre powdered, 6 or 1

Crabs Claws prepared, 6 or 10 grains.

Sugar, 30 grains.

Mix-and take it in the manner above recited.

3. COOLING SALINE PURGE.

Take milk of Almonds, or Decoction of Barley,

in which diffolve

Vitriolated Natron,
or Tartarized Natron,
or Vitriolated Kali,
Manna,

1 ounce.
1 ounce.
1 ounce.

Dose. Four table spoonfuls every third hour, till the defired effect is produced.

No. 4, Anodyne, or Quieting Draught.

Take Distilled Water,

Spirit of vitriolic Æther,

Tincure of Opium,

Syrup of White Poppy Heads,

3 drams.

Syrup of White Poppy Heads,

or,-5. SALINE ANODYNE DRAUGHT.

Take Kali prepared,

Lemon Juice,

Distilled Water,

Tincture of Opium,

Syrup of White Poppy Heads, 2 drams,

Mix .-

6. ANTIMONIAL MIXTURE.

Take of tartarized Antimony, 3 grains.
Rofe Water, 6 ounces.
Syrup of Sugar, 3 ounces.

Mix.—Dose. One or two spoonfuls every fix or eight hours.

or --- 7. ANTIMONIAL POWDER.

Take Tartarized Antimony,
Prepared Crabs Claws,
Sugar,
3 grains.
5 drams.
1 dram.

Dose. Twenty or thirty grains.

8. ANTIMONIAL SALINE MIXTURE.

Take Saline Mixture, (No. 1.) 8 ounces.

Tartarized Antimony, 1½ grain.

Dose. Four table spoonfuls every fourth or fifth hour.

or-9. ANTIMONIAL BOLUS.

Take Antimonial Powder, 3 grains.

Conserve of Roses, 1-2 a scruple.

Syrup of Sugar, sufficient to form a bolus, which may be repeated every sixth hour—or the Antimonial Powder may be given with some of the absorbent Earths, as in No. 7. and the dose of Antimonials may be augmented or decreased as the stomach will bear them.

No. 10. NEUTRAL VOLATILE SALINE MIXTURE.

Take Acetated Ammonia, 2 ounces.
Peppermint Water, 6 ounces.
Tartarized Antimony, 1 grain.

Syrup of Saffron, I-2 an ounce. Mix.—Dose, &c. fimilar to No. 1.

II. EMETIC MIXTURE.

Take Tartarized Antimony, 6 grains. Distilled Water,

6 ounces.

Syrup of Saffron,

1-2 an ounce.

Mix .- Dose. Iwo table spoonfuls, repeated every half hour, till the defired effect is produced.

or-12. EMETIC DRAUGHT.

Take Ipecacuanha Powder, Tartarized Antimony, Pennyroyal Water,

20 grains. 1 grain. 1 onnce.

1 dram.

Mix .- Let this be administered in the evening, and the stomach well washed with chamomile-flower tea, thin gruel, or any other fimple aqueous fluid drank warm.

13. CORDIAL MIXTURE.

Take Peppermint Water, Spirit of Nutmeg, Aromatic Confection, 1 1-2 dram. Compound Spirit of Ammonia, 40 drops. Syrup of Saffron,

6 ounces. 1 ounce. 1-2 an ounce.

Mix .---

or-14.

Take Cinnamon Water, Spirit of Cinnamon, Ammonia prepared, Aromatic Confection, Compound Spirit of Lavender, } of each 1-2 an ounce.

6 ounces. 1 ounce. 30 grains. 1 dram.

Mix.

15. CORDIAL CAMPHORATED JULEP.

Take Camphorated Mixture, Peppermint Water, Tincture of Cinnamon, Syrup of Saffron,

of each 3 ounces.

I ounce. 1 1-2 ounce.

Mix .- Doses. Four table spoonfuls every fourth or fifth hour ; and three at any time, when low, faint, or fick.

No. 16. CORDIAL STIMULANT BOLUS.

Take Prepared Ammonia, Camphor,

of each 5 gra

10 grains Aromatic Confection, Syrup of Saffron, fufficient to form a bolus.

or-17.

Take Snake-root, Contrayerva,

powdered, of each 5 grains.

Aromatic Confection,

10 grains.

Syrup of Saffron, sufficient to form a bolus, to be administered every four hours, washing it down with two or three table spoonfuls of the following julep.

18. CORDIAL JULEP.

Take Cinnamon Water, Tincture of Cinnamon, Syrup of Saffron,

1-2 an ounce.

Mix.-

19. PURGING DRAUGHT.

Take infusion of Senna,

Manna,

Tincture of Senna, Rhubarb in powder,

Compound Spirit of Lavender,

2 ounces.

of each 1-2 ounce.

8 or 10 grains. 2 drams.

Mix.

in powder, Take Rhubarb, Cinnamon Water, Syrup of Orange-peel,

25 grains. 6 grains. I ounce. 1 dram.

Mix.-

21. PURGING PILLS.

30 grains. Take Rhubarb in powder,

Mucilage of Gum Arabic, sufficient to form it into pills

-or fyrup may be added to make it into a bolus,

And of these forms may be taken in the morning early; and when they begin to operate, worked off with weak broth, on thin gruel.

22. CASSIA DRAUGHT.

Take Distilled Water, Acetated Ammonia, Tartarized Antimony, Cassia Electuary, Syrup of Roles,

1 1-2 ounce, 2 drams, 1.6 or 4 of a grain from 10 to 20 grains 2 drams.

MIX.

Mix.—and let it be repeated once in four hours, till it produces the effect required.

No. 23. CRYSTALS OF TARTAR WHEY.

Take Crystals of Tartar,

diffolve them in

Milk.

and add Manna,

1-2 an ounce.

1-2 a pint.

2 ounces.

24. INFUSION OF TAMARINDS.

Take Tamarinds.

then add Manna,

boil them in Milk Whey,

8 ounces. 2 ounces.

I ounce.

Of each of these a tea-cupful, or more may be taken occasionally

25. DOMESTIC GLYSTER.

Take Milk,

Water,

Brown coarfe Sugar, Common Salt,

Linfeed, or Olive Oil,

of each 4 ounces.

1 1-2 ounce. 1-2 an ounce.

2 ounces.

Mix.

26. COMMON GLYSTER.

Take the Glyster Decoction,

Epfom Salt,

Syrup of Buckthorn,

Linfeed Oil,

8 ounces.

of each 1 ounce.

2 ounces.

Mix .-

27. CORDIAL SALINE DRAUGHT.

Take acetated Ammonia,

Peppermint Water, Ammonia prepared,

" Confection of Alkerms,

Syrup of Saffron,

I-2 an ounce.

I ounce.

5 grains.

2 drams.

Mix .-

28. CORDIAL AROMATIC DRAUGHT.

Take Oil of Nutmegs;

rub them well with

Sugar,

4 drops.

2 fcruples.

to which add gradually

Peppermint Water,

2 ounces.

Mix.

* LEWIS's Ditpenfatory improved. Page 363. Ediuburgh, 1786.

Gg

No. 29.

No. 29. CORDIAL AROMATIC MIXTURE.

Take of Oil of Cinnamon,

Fine Sugar,

40 drops. 3 drams.

rub these well together, then add

Cinnamon Water,

6 ounces.

Spirit of Cinnamon, I ounce.

Mix.-The Draught, or four spoonfuls of the Mixture, should be given as directed No. 15.

30. MUSTARD POULTICE.

Take Mustard Seed Powder,

of each equal parts.

Crumbs of Bread, Strong Vinegar, fufficient to form a poultice; but when wished to be stronger, half an ounce of bruised Garlick; and one ounce of black Soap added.

31. Musk Bolus.

Take Musk, rub them well with from 8 to 30 drops.

Fine Sugar,

40 grains.

to which add

Ammonia prepared, Aromatic Confection,

5 grains. 10 grains.

Syrup of Saffron fufficient to form a bolus, to be administered every four or five hours, with three table spoonfuls of the fablequent Infusion.

32. VALERIAN JULEP.

Take Valerian Root bruifed.

I 1-2 ounce.

Boiling Water,

I pint.

Infuse in an earthen vessel well closed, and let it stand till cold; to fix ounces of which add Syrup of Saffron, half an ounce. Mix.

33. CAMPHORATED BOLUS.

Take Camphor,

of each 5 grains.

Ammonia prepared, Aromatic Confection,

20 grains.

Syrup of Saffron, fufficient to form a bolus, to be taken every fourth hour.

34. MUSK JULEP.

Take Musk Mixture, Camphor,

6 ounces. 30 grains.

Myrrh,

Myrrh, 20 grains.
Syrup of Saffron, 1-2 an ounce.

Let the Camphor and Myrrh be well rubbed together, and then add gradually the Musk mixture—Dose. Four table spoonfuls every three or four hours, or oftener in cases of great languor.

No. 35. Musk Bolus.

Take Musk, 10 grains.

Camphor,
Ammonia prepared,

of each 6 grains.

Syrup of Saffron, fufficient to form a bolus, to be taken every third or fourth hour.

36. SNAKE-ROOT BOLUS.

Take Snake-root powdered, 20 grains.
Ammonia prepared, 8 grains,

Syrup of Saffron, fufficient to form a bolus, to be taken every fix hours.

37. SNAKE-ROOT DRAUGHT.

Take Snake-root bruifed, 6 drams.
Boiling Water, 12 ounces.

Infuse in a close vessel till cold; to one ounce and a half of which

Aromatic Confection, 5 grains.

Syrup of Saffron, 2 drams.

Mix.—or from one to two drams of the Tincture of Snake-root may be added to any other of the cordial Draughts, andadministered every fourth, fifth, or fixth hour.

38. IPECAGUANHA EMETIC.

Take Ipecuanha in powder, from 15 to 20 grains.

Pennyroyal Water, 1 ounce.

Syrup of Sugar, 2 drams.

Mix.

39. VINOUS INFUSION OF PERUVIAN BARK.

Take of Peruvian Bark,
Infuse it in White Wine,
Dos E. Three spoonfuls every fourth or fifth hour.

40. CORDIAL MIXTURE, WITH BARK DECOCTION.

Take Peruvian Bark,

boil it in one pint of water till it is reduced to 12 ounces, then
let it be strained, and add

Tincture of Snake-root, I ounce.

G g 2 Aromatic

Aromatic Confection, 2 drams.

Mix.—Dose. Four table spoonfuls every fourth hour.

No. 41. CORDIAL MIXTURE, WITH HOT OR COLD INFUSION OF BARK.

Take Peruvian Bark, 6 drams.

Infuse it in ten ounces of boiling water for four, in cold for eight hours, then let it be strained, and add

Tincture of Snake-root, I ounce. Compound Spirit of Lavender, 4 drams.

Mix.—Dose. The same as (40.)

or volatile substances may be added to any of these vehicles, as Salt. or Liquor of Hartshorn, Ammonia prepared. See Doses, P. 150.

If Bark should be disagreeable in every other form, it may be given in glysters, though in large proportion. Should the Powder, Tincture, or Extract, be more eligible, see the Doses, P. 193, 194.

42. ABSORBENT JULEP.

Take Crabs Claws prepared,

Gum Arabic powdered,

Cinnamon Water,

Syrup of Saffron,

4 drams.

Mix.-

or-43

Take Chalk Mixture.

Spirit of Nutmegs,

Syrup of Orange Peel,

of each 4 drams:

Mix.—Dose. Three spoonfuls of either often in the day, particularly after every loose stool.

44. DETERGENT GARGLES.

Take Infusion of Roses,

Honey of Roses,

2 ounces.

Mix.—

Take Lime Water, or-45.

Honey of Roses,

Mix.—

4 ounces.

1½ ounces.

Take Decoction of Barley, 10 ounces.

Honey of Roses, 2 ounces.

Muriatic Acid, 20 drops.

Mix.

or-47.

Take Decoction of Barley, Simple Oxymel, Tincture of Myrth,

1 pint.
1 ounce.
1 ounce.

Mix .--

No. 48. ANTISEPTIC WHEY.

Take Cow's Milk,

1½ pint.
½ a pint.

Water,

Let these be boiled together, and mixed with one ounce and an half of Seville Orange, or Lemon Juice; or mix only one ounce of Lemon Juice, and two of good old Rhenish, and strain for use.

49. ANTISEPTIC DRINK.

Take Crystals of Tartar, 2 ounces.

Dissolve these in one gallon of Water, and sweeten with Syrup of Orange Peel.

50. ANTISEPTIC PURGING APOZEM.

Take Tamarinds, 1½ ounce.

Boil them in Water from nine to seven ounces, then strain, dissolve Manna, 2 ounces.

Manna, Tartarized Kali,

1-2 ounce.

Mix.-

51. ANTISEPTIC APERIENT DRAUGHT.

Take Tartarized Kali,

40 grains.

Manna picked,

1 1-2 dram. 2 drams.

Lemon Juice, Diffilled Water,

1 1-2 ounce.

Mix.—Any of these may be taken, (No. 49 and 50. in proper doses,) and repeated agreeable to the effect wanted to be produced.

52. ANTIPUTRESCENT DRAUGHT.

Take Tincture of Rofes,

2 ounces.

Muriated Acid,

5 drops.

Syrup of Quinces,

2 drams.

Mix .-

or-53.

Take decoction of Bark,

2 ounces. 5 drops.

Muriatic Acid, Syrup of Quinces,

2 drams.

Mix .-

or-54.

Take Camphor,

6 grains.

Myrrh powdered, 10 grains Let these be rubbed well together, and add gradually

Decoc-

Decoction of Bark, 2 ounces-Syrup of Lemon, 1-2 an ounce.

Mix.—Any of these may be taken every third or fourth hour, or oftener, if the exigencies of the case require.

No. 55. CAMPHORATED VINEGAR.

Take Camphor, 2 drams.

Let this be rubbed down with a few drops of Spirit of Wine, then

add Sugar, 1 ounce.
Distilled Vinegar made hot, 2 pints.

Mix.—Dose. Two or three table spoonfuls, or more, every fourth or fixth hour.

56. ASTRINGENT POWDER.

Take Styptic Powder, of the Edinburgh } from 8 to 15 grains.

Dispensatory,

Gum Tragacanth in powder, 15 grains.

Nutmeg powdered, 3 grains.

Mix.—To be given every third or fourth hour, with the Draught No. 53, as ordered above.

57. IPECACUANHA DRAUGHT.

Take Cinnamon Water,

Gum Arabic,

Chalk prepared,

1 1-2 ounce.

2 fcruples.

1 fcruple.

Ipecacuanha, 2 grains, Syrup of White Poppy, 1 dram.

Mix .-

58. SALINE VOLATILE DRAUGHT.

Take Water of acetated Ammonia, 2 drams.

Cinnamon Water, 1 1-2 ounce.

Opiated Confection, 1-2 a dram.

Syrup of Saffron, 2 drams.

Mix.—Either of these, or three or four table-spoonfuls of camphorated Vinegar, (No. 55.) may be administered every fourth hour.

59. SALINE FERMENTATIVE DRAUGHT.

Take Kali prepared, 20 grains.

Peppermint Water, 1 ounce.

Syrup of Quinces, 2 drams.

to which add

Lemon Juice,

and let the Draught be drank off whilst in a state of fermentation.

No. 60.

No. 60. POMEGRANATE BARK, AND CHAMOMILE DECOCTION.

Take Bark of the Pomegranate Fruit, 1 ounce.

Chamomile Flowers, 1-2 an ounce.

Let these be boiled in

Water, 24 ounces to 16.

then in this Decoction, whilst hot, infuse

Orange-peel, 3 drams.

This must stand in a vessel covered close till it is cold, then strained off for use. To one ounce of this add

Camphorated Vinegar, 2 drams.

Muriatic Acid, 5 drops.

Mix .- And let it be given every fourth hour.

61. STEEL PILLS.

Take Iron filings, or the Rust prepared, } of each 1 dram, Extract of Gencian,

Form these into 24 pills. Dose. Four.

or-62.

Take Vitriolated Iron,

of each 1 dram.

Extract of Bark,

Form 24 pills. Dose. Two. A dose of each of these may be taken, three or four times a day—or, one spoonful of Chalybeate Wine—or the Decoction of Bark, in the same mode as before prescribed.

63. AROMATIC BITTER DRAUGHT.

Take Quassia Wood, 2 drams.

Infuse in one pint of boiling water, and, when cold, to one ounce and an half add

Vitriolated Iron, 4 grains.
Aromatic Tincture, 30 drops.

Mix.—and administer twice a day; as may be also the following bolus.

64. AROMATIC BITTER BOLUS.

Take Chamomile Powder,

from 10 to 20 grains.

Myrrh in powder,

Vitriolated Iron,

Aromatic Powder,

6 grains.

6 grains.

Syrup of Saffron, fufficient to form a bolus. or, the Steel Pills. (No. 61, 62.) may be administered in the same manner, with four spoonfuls of the following infusion:

No. 65. AROMATIC BITTER INFUSION.

Take Compound infusion of Gentian, 6 ounces.

Tincture

Tindure of Bark. Aromatic Confection,

6 drams. 1 1-2 dram.

Mix.

66. OIL OF CASTOR EMULSION.

Take Oil of Caftor,

2 ounces.

Mucilage of Gum Arabic, or

Yolk of Egg, fufficient quantity to make it mix uni-

formly with Decoction of Barley, Syrup of Roses,

10 ounces. 1 ounce.

Mix .- Dost. Four table-spoonfuls every second or third hour, till the defired effect is obtained.

67. ANTIMONIAL APERIENT MIXTURE.

Take Distilled Water,

6 ounces.

in which diffolve

Manna, Tartarized Kali, Antimonial Wine, Tindure of Senna,

1 1-2 ounce. 3 drams. 40 drops.

1 ounce.

Mix .- Dose. Four spoonfuls every second or third hour till the defired effect takes place.

68. ASA FOETIDA MIXTURE.

Take Asa fætida,

1 drami. 4 ounces.

Peppermint Water, Tincture of Opium,

12 drops. 3 drams.

Syrup of Sugar, Mix .- Dose. One spoonful every fourth, fifth, or fixth hour.

60. CAMPHORATED EMULSION.

Take Camphor,

1-2 a dram.

Mucilage of Gum Arabic,

2 drams.

Let them be rubbed together, and add gradually

Peppermint Water, Tincture of Opium, 6 ounces. 10 drops.

Syrup of White Poppy Heads, 1 ounce.

Mix .- Dose. Three or four spoonfuls every fourth hour.

6 5. MIXED FEVERS.

On treating on the different kinds of simple fevers, in the four former fections, we found, that according to their differences, we could discover which part of the system was in them particularly affected, and conflituted the disease. In In the fimple continued, the vascular system, with respect only

to its motions being quickened.

In the inflammatory, befides the increase of motion, we perceive tenacity in the blood, and the strength and activity of the vessels augmented beyond what is natural.

In the flow nervous, the nerves feem to be primarily and chiefly affected, without any increase of vascular action, but rather a degree of torpor, and defect in their natural motion, with a lentor, or viscidity of the serum, lymph, and thin humours.

In the putrid, this nervous affection was accompanied at first,

or foon after, with a putrefeency of the fluids.

Now these peculiarities produce particular symptoms, which enable us to discover their nature. But the class of severs ranked under this head have some of the immediate causes of these simple severs so blended together, as the inflammatory and malignant, the malignant and nervous, the nervous and inflammatory—or so instantaneously and imperceptibly follow each other, according to the indications to be deduced from the symptoms, that we are at a loss where to refer them—as the distinguishing signs of the two different kinds will present themselves at the same time; for in some we find great nausea and extreme debility—great heat, with a quick, strong, and hard pulse—here are the characteristic symptoms of the inflammatory and putrid united, and form truly the MIXED FEVER. We will, however, now endeavour to explain how these arise.

When speaking of the brain, (Page 26, 27.) it was there said, that vascular irritability might be independent of nervous influence, though, for the continuance of that irritability, nervous influence is absolutely necessary. We must now farther observe, that vascular irritation always requires local stimulus for its support, and that the vessels may be affected without any strong indisposition of the nerves—and so on the contrary—and also that

they may be conjointly affected from the same cause.

We likewise farther assirm, that morbid particles creating disease produce different essents, from their elective power upon the solids as well as sluids—hence from this source arises the disferent natures of specific severs—and hence it is from the different combinations of the causes that the mixed severs deduce their

origin.

It feems to be an extremely difficult task to draw our ideas of these severs into a small compass; or so to simplify them, that all which occur can be brought within the bounds of a concise desinition; for every cause which can produce any of the foregoing sebrile complaints; every part which can also be affected in them, may conjunctively appear so in these; and in such very H h

different degrees, that we are puzzled to discriminate to which

they can properly belong.

I can by no means agree with the idea of Dr. Cullen, that the account he has given of the fever he terms Synochus, which obviously is his mixed fever, is at all adequate to comprehend the whole of those fevers, which come certainly under this term—for he says, "it is a contagious fever for the most part, composed of the inflammatory fever at the beginning, in its promers, and towards its termination, running into a nervous or putrid fever,"—which he names typhus—In all which there is no practical utility; for it may be only an inflammatory fever simply, thus terminating; which often happens to be the case—induced frequently by the violence of the disease, some accidental circumstances, or mismanagement. The continued, or vasculo-plethoric fever, which is simple, may, from the same causes, have the same termination.

Though we will not fay that fevers of the above description may not sometimes occur, still we think that the complicated affections may always be in a great degree observed, and should

be particularly pointed out.

From what has been advanced on this subject, the great difficulty of forming a definition to comprehend the whole of these fevers which may often meet our observation, is sufficiently obvious.

However, in defining these severs in general, I should say, that

ANOMALOUS, OR MIXED FEVERS,

were an affection of the nervous and valcular fystem, and fometimes conjoined with that of the mass of circulating fluids, producing febrile appearances; but, from the beginning, very often fo indistinctly marked, having the inflammatory, nervous, and putrid fymptoms fo blended, that it is difficult to fay to what kind they most peculiarly belong; and if we add to this Dr. CULLEN's opinion, (Page 241.) the idea of mixed fevers will be tolerably complete; -and as we have given the whole of the fymptoms separately under each of our former divisions, by confidering fome of them here in a conjunctive state; and marking those which are most prevalent; we shall be enabled to point out what is necessary to be done—to alleviate that species which is the most powerful in its action, confequently the most dangerous, and not altogether neglect the other-but this to execute properly requires profound medical knowledge, quick perception, nice discrimination, and experienced fagacity.

SYDEN-

SYDENHAM, to whom I shall refer my reader, has given us some histories of these kinds of severs, under different names, either according to some prevalent symptom—as the sudatory, or sweating, the comatous or drowsy—or to the intent of nature, as the depuratory, or cleansing—the imitative, as the variolous fever, or that similar to the small pox sever—or to the season, as the byemal, or wintery. We shall content ourselves with presenting, as a specimen,

The PUERPERAL, or CHILD-BED FEVER,

one of the most dangerous and fatal with which medicine is at

present acquainted.

DESCRIPTION. This fever generally begins on the first, second, or third day, sometimes later, after delivery, with coldness or shivering preceding any pains of the belly, which are violent, and has a soreness attending over the whole region below the stomach, scarce capable of bearing the gentlest touch—the belly is sometimes soft—sometimes greatly swelled. The pains, though general, will affect some one part more particularly than another, and shoot from the loins to the groins and thighs, and sometimes affect the anus and neck of the bladder.

The pulse is quick and weak, though now and then, especially a little after the attack, strong and full—the skin is, for the most part, hot and dry, though sometimes cool and temperate; and, not unfrequently, intermediate sweats come on all over the body, and usually afford some alleviation—there is a constant pain of the head, chiefly the forehead, and above the eyebrows,

attended often with a giddiness and restlessness.

The tongue has very different appearances, commonly white, foft, and moist, and will thus continue till near death—then it becomes dry, rough, and of a yellowish brown colour—a red line will sometimes run up its middle, with a whiteness on each side; the first is dry, the last moist—along with these there is also a

great thirst.

The face is often stushed, sometimes of a deep red, or livid colour fixed in the cheeks. There appears in the countenance and eyes strong marks of anxiety and dejection of spirits. From the very beginning of this distemper, the patients seem as a fraid of taking a ful inspiration, hence is the breathing quick and short, appearing not to proceed from any affection of the lungs very often; and as the disease increases, so does the shortness of breathing.

There is most commonly a cough as a concomitant;—load of the stomach—nausea---and vomiting of yellow, greenish, or black materials, frequently attend; but not invariably, though they

Hh

fome-

fometimes come on from the time of delivery, nay, now and then indeed precede it ; --- and, at the approach of death, what is

vomited up is either green or black.

If blood should be taken away, it is in general fizy, with a quantity of yellow ferum. The pain of the head, though very troublesome, is seldom attended, till a few hours before death, with delirium.

The urine at first is made with difficulty, and small in quantity, though removed by two or three stools; and, as the difease abates, it is declared by a deposition of the colour of brick dust, or whitish sediment.

At the commencement the habit is, for the most part, costive -fometimes regular-at others loofe, discharging very feetid and brown coloured fæces-and in both states flatulence attendsand the general omens of approaching diffclution are, involuntarily evacuations from the bowels.

In high degrees of this disease, the patient, for the most part, lies on her back, feldom turns on either fide, and never on her

belly.

These are the general symptoms, by which the fever may be discovered, and which appear when the uterus is not affectedbut if we perceive any of the symptoms which are declaratory of uterine inflammation, we may suspect the affection of that organ a participating cause.

CAUSES. Those which are considered as the remote or in-

ducing, are.

Intemperance during pregnancy-too great fatigue, or total want of exercise-too high or too low living-costiveness, or the reverse-excess of joy or grief-moist and warm atmosphere, impregnated with putrid effluvia. In lying in, an overheated air -too warm a regimen-fudden frights---costiveness after delivery --- and every accident which can obstruct perspiration -- violence, and too great hatte in separating the placenta --- and binding up the trunk of the body with too tight bandages.

Those which are said to be the proximate or immediate, are,

Impeded circulation, or flagnation of the blood, generally in the veffels of the omentum, (37.) and intestines, chiefly the external coat of the small ones, (42.) sometimes of the womb, (51.) inducing in those parts inflammation, from the debilitated state of the vascular system there situated, brought on by the pressure of the pregnant womb; if causes (243,) occur which are capable of producing febrile affections in the habit -- which affections are first most commonly of the inflammatory; afterwards, if the fever in this flate is not cured, of the putrefcent kind.

CHARACTERISTIC SIGNS. Common febrile symptoms, attended attended with violent acute pains of the belly below the stomach, with soreness of the parts so great as scarce to bear the gentlest touch --dread in taking a full inspiration--breathing quick and short, nor appearing to proceed from affections of the lungs--and increasing with the disease---and in costiveness, or the reverse, statulence.

CURE. The indications are to take off in the first instance, the instance, and prevent the humours from running into a state of putrescent acrimony---both which are effected by bleeding, if necessary, at the onset---purging---promoting the urinary discharge--or sweating--for in some of these ways this sever generally goes off, or is conquered, particularly by purging. If the termination is savourable, it occurs in three, sour, or sive days; if otherwise, from the fifth to the twelsth.

Hence, therefore, from what has been above delivered, our

medical conduct is plainly pointed out.

If, at an early period of the disease, the habit is found abounding with blood, the sebrile heat great, and the pulse sull and strong, blood must be immediately drawn from the arm; and, should the body be costive, an emollient aperient glyster, (No. 25, 26.) should be, as soon as possible, administered; but should not this relieve by producing evacuation, some mild or emollient aperient medicine (Page 171, 172.) must be given, till a free discharge from the bowels is procured-for stools must at all events be had; on these, at first, are sounded our greatest hopes of success; as by emptying the first passages, all distension from the contained seces is taken off-statulence lessened-irritation from the fæces avoided-and some degree of freedom given to the circulating powers of the parts affected.

But this should be done by the gentlest means -- by such medicines as will not create sickness, as the cooling saline purge,

(No. 3, 23, 24.) or oil of caftor emulsion. (No. 66.)

Tartarized antimony, (No. 6, 7.) or antimonial wine in small doses, (Page 180.) are recommended to be given with this intent every second or third hour; but in their purgative effects, they are too uncertain-- I therefore mix small portions of them with other purgatives, which I think quicken, their effects. (No. 3. 22 to 24.) or the antimonial aperient mixture. No. 67.)

The first evacuations are generally feetid; but if they become afterwards less offensive, and the patient feels herself generally relieved, she most commonly falls into a sleep, and a gentle perferration succeeds, which must be encouraged by such medicines as cool at the same time that they contribute to promote this purpose, such as tartarized antimony, antimonial powder, No. 6, 7, 8, 9.) and wine, (Page 180.) ipecacuanha, (No. 57.) nitre, (No. 2,) saline mixture, (No. 1.) to which may be added some slight opiate,

opiate, (Page 152.)---for these alleviate pain--- determine the fluids externally---and prevent their effects from internal distension, irritation, or acrimony, acquired from local solicitude of them internally, and accumulation; besides, they are diaretic, (Page 173.) and antiseptic, (Page 192.) without altringency, or

being productive of heat.

Though, in order to keep up these effects, so effentially necessary for recovery, physicians in general have ordered mild cooling liquids to be drank cold, if the skin was dry and hot, the sever and thirst considerable—and lukewarm, whilst the patient was in a state of perspiration; and very judiciously forbid the use of cordial stimulants, caudles, wines, and heating medicines of every kind:—yet some prescribe a cup of chamomile tea to be drank every hour; but as this, like other bitters, is a stimulant, in the inslammatory stage of this disease it does not appear proper. But when symptoms of putrescency are approaching, or commenced, it may be productive of good effects, as it possesses antieptic (Page 192.) powers. Small and repeated doses of lukewarm diluents, or watery liquids, as rennet, vinegar whey, lemonade, toast and water, slight intusion of malt, hydromel of Hippocrates, (Page 178.) or things of a similar nature, answer the purposes

more fafely, and full as effectually.

Though the greatest benefit is expected to be derived from clearing the first passages, attention should also be paid to the stomach ; --- and hence, if nausea, fickness, or vomiting, be one of the concomitant symptoms, that organ must be attended to, and unloaded of its contents; which will contribute also to promote the effects before mentioned; but as the womb is suspendaed by the broad ligaments, (51.) and those called round, (which are formed of a number of blood-veffels folded together, running from the corners of the womb in the duplicature of the broad ligaments, pass through a round aperture on each fide the lower part of the belly, and are loft in the fat of each groin) vomiting should be promoted by the easiest means, by drinking copioully of chamomile tea, or warm water-for by filling the stomach fufficiently with fluid, its coats will act with eafe, and the diaphragm (33.) and muscles of the belly not be thrown into continued and too powerful contraction, which would at this period be dangerous; because the ligaments are now in a relaxed state, and have not yet recovered their natural and healthful tone; hence would the womb be liable to be protruded too much downwards by ftrong exertions of vomiting.

The case here drawn up respects only the most simple appearances of this sever; but it is frequently observed to be attended

with feveral untoward circumstances.

If. VIOLENT STITCHES IN THE SIDE, and PAIN AT THE PIT OF THE STOMACH will accompany those more constant ones of the belly, with a full, hard pulse, symptoms of inslammation, and that severe in proportion to the degree of violence.

2d. FLATULENCES in the flomach and colon (43.) will produce pains in the fides, shooting about the short ribs, which fluctuate; and occasion shortness of breathing, being only attend-

ed with a flight degree of fever.

3d. A cough not unfrequently is an attendant symptom-but

feldom of much confequence.

4th. A LOOSENESS will fometimes appear at the very com-

first passages.

These we must endeavour to alleviate by well-adapted applications. Under the sirst circumstances bleeding must be had recourse to, and that repeatedly, if the violence of the symptoms continues, paying proper attention to the strength of the patient; taking care not to be too lavish in the quantity of blood drawn; for it is safer to bleed twice than once too copiously. Should the pains be violent, and the breathing much oppressed, blisters must be applied immediately, and repeated in proportion to the cause, first on the side affected, afterwards on the opposite side.

But should the pulse grow weak, and other symptoms of debility come on, declaratory of putrescency taking place, cordials with tonics, the most powerful of which are, volatiles united with bark—camphor—spirit of vitriolic or nitrous æthermust be brought to our aid and mineral acids. See Putrid Fever, 221, § 4. from whence we shall be referred to a variety of prescriptions capable of answering our purposes.

And here we must observe, that the seneka root, (Page 179.) has been highly recommended in this, as well as other pleuritic affections; and is in this place considered as exceedingly applica-

ble, as it is faid to promote stools, urine, and sweat.

Under the fecond, we must apply to aperients, (No. 3. 23 or 24. 66, 67.) if these sail of success, by their operations, antispasmodics and sedatives may be tried, chiefly as sætida, camphor, (No. 68, 69.) or musk, (No. 31. 34, 35.) with opium.

Under the third, in slight cases, oily emulsions may be administered, as in common coughs; but should there be at the same time a severe pain in the head, a blister should be applied between the shoulders—steams of vinegar and water inhaled into the lungs—gentle opiates, (152.) or spirit of vitriolic æther, (150.) administered.

Under the fourth, we are not to attempt to check the discharge

by the use of astringents; for from this every good is to be expected-we must here rather chuse to assist nature by the free use of those drinks we have in common recommended ;-but should it not come on till the close of the disease, and be apparently critical, we must endeavour to support the patient under it, and aim at correcting the putrescent fiate of the habit, by antiseptics and cordials, both in glysters and by the mouth, and proper nourifiment. The glysters should be emollient, diluting, and nutritious, composed of broths, beef-tea, chamomile infufion, with oil, and impregnated with fixable air ;-wine, wine and water," may be given-also cordial mixtures with cinnamon, (No. 13, 14, 15, 18, 28, 29.) omitting the volatile substances, except in cases of faintness, when they may be occasionally added -- the aromatic confection may be also changed for the extract of logwood, or the infusion may form the vehicle, (140.)-and after the diarrhoea has been checked by proper remedies, we must not forget the bark joined with aromatics, (No. 30 to 41.) and opiates. Belides, beef-tea, chocolate, hartshorn jelly, and fuch like, should be given by the way of nourishment-lime-water with milk; and, in fine, all fuch things as have the power of correcting putrefeency, and preferving as much as possible the vigour of the conflitation-hence rest of body, quietude of mind, cleanlinefs, and cool air, are effentially auxiliaries, and should be attended to with the greatest exactitude: and as lying-in women all have a greater or less degree of the predisposing cause in their habits, from the very nature, and unavoidable confequences of pregnancy, ariling from the distension of the womb, producing impeded circulation, and vascular debility, the remote or inducing causes (244.) should be avoided-and from thence the accession of the fever prevented: and as there is no disease, when perfectly formed, more dangerous in itself, so difficult to cure, still so easy to be produced by indiscretion and ignorance, I would on every confideration recommend the preventive mode to be closely fludied, and affiduously purfued.

We have now gone through that feries of fevers, of the four first of which, all, either in their separate or conjunct state, whatever they be denominated, consist; and it clearly appears, that the parts of the constitution which are affected, are those which form the moving powers, (56.) and that it is by the morbid alteration of their action alone that severs are produced; consequently, that it is from regulating their motions, and reducing them to a proper standard, that we can derive benefit in our curative,

as well as preventive attempts; for instance:

IN THE SIMPLE CONTINUED FEVER we find a superabundance of blood, and irritable state of the vascular system put into mo-

tion by some remote cause, occasioning increase of action—in order to cure, we lessen the former, and decrease the latter—for here we suppose not any contamination of the circulating sluids to have taken place.

In the inflammatory fever we find to the superabundance of blood is added a morbid tenacity, and to the irritability a morbid augmentation of vascular strength and simmess—in order to cure, our efforts are the same as in the former case, only more powerfully, copiously, and quickly exerted, with intent to thin the sluids, and debilitate the force of vascular action, as well as lessen the quantity of blood, and decrease the quickness of vascular motion.

IN THE NER vous we find a different constitutional state of the moving powers—a torpor of the vascular system—ropy vicidity of the serous or lymphatic sluids—with a morbid activity of the nervous system— in order to cure, we endeavour to rouse the nerves to the performance of their due action, and increase the irritability of the sanguinary vessels through the habit.

IN THE PUTRID we find, added to one or other of the states of the vascular or nervous system, a putrescent state of the sluids, either from the absorption of putrid particles, or the generation of them in the habit—in order to cure, we attempt to support the vigour of the system, and correct the putrescent acrimony of the sluids, according to the affection of the moving powers—if of the inslammatory kind, by mitigating their too violent action—if of the nervous, by rousing their active powers, so that in due time the offensive matter may be separated from, and thrown out of the mass of sluids, by some of the outlets of the machine; which is the case in all other severs that deduce their origin from any peccant matter in the habit.

And we may venture to affert, that any practitioner who closely studies, and perfectly understands the nature andmanagement of the four kinds of fevers specified above, will be fully competent to conduct his patient, in the best manner, through every kind of fever, be its nature ever so apparently complicated.

But, besides the severs we have particularized, there are of thers, denominated according to their form or mode of progress REMITTENT or INTERMITTENT, though they really are of the nature of those of which we have before treated, either in their separate or conjunct state; and which we must now proceed to explain.

SECTION IX.

C H A P. I.

REMITTENT FEVER.

FEVERS of this kind receive their name from the mode which they preferve through their progress, steering betwixt those of the continued and the intermittent class; for though the fever does not preferve throughout an equal degree of violence as in the former, there is never a total cellation of febrile affection before its termination, as in the latter. These fevers, therefore, move betwixt the two extremes; having, instead of fresh acceffions, as they are called in intermittents, only repeated increase of action, denominated exacerbations; between which a degree of vascular contraction and profration of strength are continued, indicative of the presence of the febrile cause still in action; and from hence they take their name.

But, indeed, the remissions are sometimes so slight, that they are with difficulty distinguished by the closest attention from continued fevers-though this discrimination is highly necessary, as they yield more in their mode of cure to that we shall find em's ployed in intermittents, being fubdued with more certainty by the bark, judicionfly administered, than by any other application. Indeed, they feem to have fo great affinity with the continued and intermittent fever, that they fometimes run into one, fometimes into the other-and the continued, before it becomes intermittent perfectly, will assume the remittent type, so will the

intermittent before it changes into a continued.

From some appearances occurring in the course of these fevers, they have been divided into quotidian-tertian-or quartan -according as the remission has happened on the second, third, or fourth day; but in this division there appears to be no practical utility—as it leads not to any particular mode of cure, nor affifts in diffinguishing the nature of them, whether they verge most to the inflammatory class, which knowledge alone must de-

termine our operations.

They, like other fevers, generally begin DESCRIPTION. with alternate chills and heat, stretching and yawning; and these are fucceeded by naufea, vomiting of bile, giddiness, and oppression-then commences the fever, and the heat continues; after thefe follow pain of the head, back, and limbs-heart-burnand thirst—difficult breathing—anxiety—inquietude—and, sometimes from the first attack, delirium—the stomach swells now and then—the eyes are generally tinged with a yellow colour, and that diffused over the whole body not unfrequently—the tonque is white and moist—the pulse sometimes hard, seldom full—the bowels are at one time obstructed, at another the reverse.

Thus fituated are some periods betwixt the second and eighth day; which time a remission very rarely exceeds; for the most part a gentle sweat will come on, and brings an alleviation of all the febrile symptoms; and this continues for some hours; after which, generally in the evening, the violence of the fever is renewed, sometimes preceded by chillness, sometimes not.

This repetition hath no fixed time for its continuance, in some remaining a longer, in others a shorter space; but at last gives way in its degree of violence, and remits a second time; and thus continues sluctuating till either totally subdued by nature or

art-or death closes the icene.

When this last is the case, the patient often dies in the paroxysm, or renewal of the attack—the brain is immediately affected—he loses his senses, and the power of speech—his breathing becomes quick—deglutition is impeded—a looseness comes on the pulse in the beginning soft, not to be called weak, nor indicative of danger, in a few hours is small and depressed, then cold

fweats break out, and the unhappy victim expires.

These fevers have, by some, been stiled bilious, from the vomiting of bile, so common in their commencement, and the yellow sussigned on the skin and whites of the eyes; supposing these symptoms to arise from the superabundance of bilious excretion, and the activity of the bile resorbed into the habit, occasioning such febrile commotions—But it is obvious this change of colour is owing to another cause, and that, the breaking down of the texture of the blood from the putrescent tendency of the sluids; and thus may the colour more properly be accounted for; because the bile may be returned into the blood, as in the jaundice, without producing these febrile attacks.

In hot countries that are marshy, where the atmosphere is filled from thence with putrid exhalations, they are endemial, that is, nalive and resident—with us, and other parts of Europe, they have been observed to become epidemical, that is, occasionally ge-

neral, towards the latter end of autumn.

CAUSES. The remote or inducing are faid by some, as well as the proximate, to be such as bring on a continued, or inflammatory, or a putrid sever, (209, 221.) whilst others attribute the first to too great moissure in the air, the last to insensible perspi-

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ration impeded, and a relaxed state of sibres. However, from the history of these severs, it is obvious, that they, at different periods, and in different constitutions, put on appearances which are very different, and according to which we are to regulate our

conduct. Hence we fay, the

CHARACTERISTIC SIGNS are, a remission or abatement, not a total cessation of sebrile assections, succeeded by perceptible exacerbations, or increase of sebrile violence; which increase is sometimes ushered in with chillness;—and if there are strong symptoms of vascular contraction, and great increase of circulatory motion, which are declared by extreme beat—thirst—and pain—having a dry skin, strong, bard, and full pulse, for their associates, we shall not hesitate to pronounce it inflammatory;—but if attended with great debility—lowness of spirits—nausea—oppression—vomiting—coupled with discolouration of the skin, and longuid pulse, its belonging to the putrid class is indisputable.

This fever is never free from danger; though the nearer it approaches to an intermittent, or the less degree of sever continues during the remission, so much more favourable the omen; but, on the contrary, the more it puts on the appearance of a continued sever, the shorter the remission, and more violent the sever sit, so much the more dangerous. If the urine, which was before of a deep colour, becomes pale, we have great reason for sear—If it changes its remittent for a continued type, the event is doubtful—and when the brain is assected, and the rest of the symptoms, as described (Page 251. line 19, &c.) death is near at hand.

CURE. The indications are fimilar to what we have delivered on the inflammatory (209) and putrid (221) fevers, adapted to peculiar flates agreeing with them, by which this fever may be changed into an intermittent, or totally taken off—confequently, where the inflammatory symptoms are prevalent, bleeding, cooling purges and glysters—vomits—and small doses of antimonials—watery diluting liquids drank plentifully—cooling acescent vegetables—will be the most eligible at the commencement, and will so far answer the purpose in some cases, that nature afterwards may be almost left to herself.

Still, in others, the requires the most immediate and powerful assistance—hence it is necessary to point out the different progressive appearances, by which may be discovered the situation of safety, or danger, and the mode of proper management under each, as, from imprudent conduct, this sever, from its mildest state may be converted into that of extreme peril, and from this

last into certain death.

If, therefore, the increase of the febrile affections, a third time, hould not be more violent, nor of longer continuance than that which preceded, but nearly similar—if the urine should let fall a landable sediment, without any visible decrease of strength, or nereased dejection of spirits, matters will wear a favourable aspect; and about the fourth or fifth return of the sever, the powers of the constitution will commonly relieve themselves by some critical evacuation, either by the KIDNEYS, SKIN, INTESTINES, SALIVARY SYSTEM, or LUNGS, manifested in turpid urine, prosufe sweat, bilious stools, copious spitting, or expectoration of matter of a yellow cast—for the sever generally resolves itself in one or

more of these ways.

But, on the fifth return, should there appear to be an increase n degrees of feverity, in the fymptoms becoming more acute and dangerous-if the fit continues longer, and is more violent than before, and there are obviously a finking and lowness of spirits, with great debility of the powers of the fystem, we must have recourse to blifters, which some indeed advise at an earlier period, as calculated in a remarkable manner to bring on the intermittent type—and bark as foon as possible in the remission; forty or fixty grains of the powder may be administered every econd or third hour-or, if the stomach will not bear this quanity, a fmaller dofe be given at fhorter periods, or the decoction, 193.) hot or cold infusion, (No. 41.) with or without the volailes or aromatics, as feem necessary; to which also may be occationally added, the other preparations of this medicine, (193, 194.) by these means many endeavour to stop, or at least retard the progress of the next febrile fit, by throwing into the habit a sufficient quantity—and thus must we proceed till we shall be empowered within twelve or fourteen hours to administer fix or eight drams.

If we are not active at this period, and attempt not with all our power to mitigate or conquer the febrile affections, we run the risque of protracting the ditease, and rendering it more replete with danger; for now the fits become so quick, and solowing each other so rapidly, that we are deprived of the opportunity of throwing in the bark in proper quantity, and permit-

ing a continued fever to be the confequence.

But though bark in some states of this fever is so extremely affeld, still, in every stage it is not necessary—nay, indeed, in he instammatory remittents (251.) it is dangerous to administer t, whilst the action of the vessels are too powerful; for from this we might produce the instammatory continued fever; therefore we must endeavour to lower the system, by those means advised,

(252, line 33.)—that done, the bark may then be advantageously

Before we close the account of this fever, we must observe, that though bleeding, and that repeatedly, has been advised in fome of these severs, and with confiderable advantage; yet under some circumstances there requires the nicest caution, with respect to the quantity to be taken away, notwithstanding the commencement being ushered in with such symptoms, as might authorife the operation; for bleeding has been allowed to do. mischief, especially in hot countries, for there these severs are generally of the putrid kind-therefore in our first bleedings the quantity should be moderate, seldom exceeding eight ounceswhich may be repeated in case the inflammatory symptoms continue violent-but should these only be slight at first, and evacuations are necessary to be promoted, we can only depend upon the gentleit cathartics, fuch as oil of castor, manna, tartarized kali, Polychrest salt, and tartarized antimony-(See Cathartics, Simple continued, and Inflammatory fevers, where different formulæ will be found) and also the saline mixture-which last often repeated, is fail to be the most certain alleviator of the violent nausea and vomiting, which generally attend these casesor it may be given in its flate of fermentation, (No. 59.) and is greatly affiliant in correcting the putrid dispolition, and those touinesses which are collected in the stomach and slexure of the duodenum-(42.) afterwards the bark must be freely applied. By these means thousands have been faved; and if they are begun with before the strength of the patient is exhausted, and will properly purtue the advice given, feldom any die of this difeafe.

However in the West Indies in this fever there is something very singular, for it has been observed, that if the bark was not given on the first remission, it was apt to run into the continued

species.

There are innumerable varieties of these severs mentioned by authors, who have given them different names, according to some peculiar circumstances which attended—but all yield to the mode of treatment here pointed out-only in some paying particular attention to any uncommon symptom which occurred—two of which we shall point out.

BILIOUS REMITTENT FEVER.

This attacks generally in the middle of August, and is attended, besides the common symptoms, with violent pain of the head and often with delirium, which symptoms continue in the night vanish in the day-time, after sweating, a hamorrhage or loofeness

nels. In the beginning there is frequent nausea, bilious putrid

vomiting, and in the end oppression.

In extreme cold weather, and at the approach of winter, a cough, rheumatic affections, and tenacity of the blood, accompanies these severs—but it is from the bilious purging and vomiting that it derives its name. If evacuations are not directed, a continued sever with yellowness comes on. The cure is performed by vomits cathartics, acids, and bark; but we must first persist in the use of evacuants before we give the bark, and then it is admirably conducive to promote the cure. This remittent is esteemed of the inflammatory class.

The other we shall mention is of the putrid class.

MARSH REMITTENT FEVER.

This is the bilious, or putrid fever of the low marshy countries

described by Sir JOHN PRINCLE.

This fever not only happens in moist, but also in warm countries, according to the season, as they come on in the months of July and August, from putrid vapours arising from corrupted

plants or fish.

This bears bleeding very indifferently, and should rather be treated in the evacuating and strengthening method; at the beginning clearing the first passages with gentle emetics and cathartics, and continuing small doses of antimonials—which not succeeding to our wish, bark must be called in to our aid to perform the cure.

In order to prevent the attacks of the remittent fevers, as they are chiefly the children of moist seasons, and low marshy countries, we should keep good fires, with intent to correct the atmospheric humidity—make use of aromatics—avoid the evening and morning air—drink red wine—use exercise and the cold bath—take bark once or twice a day, mixed with bitters—and smoak tobacco—for people who have observed these rules have, many of them, escaped in countries where this fever has raged epidemically, and afflicted numbers who have despited these cautions.

SECTION X.

INTERMITTENT FEVER.

THESE fevers receive their name from the nature of their progress, having a perfect cellation of febrile affections from the the termination of one fit to the beginning of another, and may be confidered as continued fevers of short duration, confisting of many febrile fits, the fever returning at flated periods; for in every fit the course of a continued fever is run throughthe coldness and shivering is the beginning-the hot fit the height -and the fweating generally attendant, or at least a gentle perspiration the crisis of errogation. What happens in these dif-

ferent stages is thus properly described :

DESCRIPTION. IN THE FIRST STAGE it begins with yawning and stretching, and a certain indescribable sensation in the back and the ends of the fingers; after these succeed exceffive coldness, infomuch, that it occasions violent shaking of the whole body, and chattering of the teeth; still, in fact, the blood is in a state of increased, rather than diminished heat-there are also nausea, and sometimes vomiting attendant, with pains of the back, head, and limbs-the ends of the noie, ears, lips, and cheeks grow pale-the nails livid-the breathing is difficult-the urine pale and limpid-the pulfe weak, and extremely quick-and this cold fit continues for one, two, three, four, or five hours fometimes, at others only half an hour before the hot fit commences -which forms the

SECOND STAGE, in which there is extreme degree of heat immediately succeeding the cold, which goes off gradually: in this the pulse becomes full, quick, and strong-the head is painfuland fometimes the patients are delirious-their breathing is forcible and free-the tongue white, attended with great thirst-at the pit of the stomach they complain of much heat, have pain there, and fometimes swelling-the urine is high coloured-and when blood is taken from the arm it is more dense than usual, particularly in fpring-fometimes in unwholefome fituations and feafons the fuperior part is red, the inferior black, with a small portion of ferum, and that lefs cohefive than when in health.

At the commencement of the

THIRD STAGE there breaks out a general and copious fweat, which alleviates the extreme heat, and mitigates all the fymptoms, which, on the fweat continuing for some hours, totally vanishes - the urine deposits a sediment like brick-dust - the patient falls into a found fleep-and thus the fit closes with a ceffation of all the febrile symptoms; and this, called the intermission, in which the patient feels fome degree of debility, has much propenity to fweat, and little or no appetite.

It has been thought that we could prognofficate the violence of the hot, by the degrees of the duration of the cold fit, for the longer the latter continued, the more fevere would be the former-but this is erroneous, for the fensation of cold grows weak-

er in long continued intermittents.

In some countries these severs are peculiar, as the sens of Cambridgeshire, Lincolnshire, the low parts of Kent, the marshes of Essex, and in places where there is much moisture, and the situation low; and here they generally appear in spring or autumn. They seldom visit other places, except in seasons adapted to their

propagation, and then they become epidemic.

They have been divided into vernal and autumnal, endemical and epidemical, and into quotidian, where from the termination of one fit to the beginning of another the space of 24 hours is consumed—tertian, where that of 48—quartan, where of 72—and when longer, erratic. They have also been divided farther; but they seem to be of no practical use, as the modes of cure in all are very similar.

CAUSES. The remote or inducing are, immoderate evacuations—cold moist atmosphere—irregular or improper diet of crude watery vegetables—lowness of spirits—crudities in the first passages—and, in fine, every thing which contributes to produce a relaxed state of the solids, and poverty of the

blood.

The proximate or immediate, effluvia from moist, marshy places called marsh miasma—impeded perspiration, and relaxation of the solids.

Hence are the poor more subject to this disease than the rich and affluent, those who inhabit the country more than those who live in large towns and populous cities; for generous diet and warmth are p eservatives against the disease as well by purify-

ing the air, as invigorating the habit.

CHARACTERISTIC SIGNS. Affections of both the nervous and vafcular fystems, from marsh effluvia running through the course of a continued sever, of short duration, beginning with cold and shivering, succeeded by great heat, and terminating, for the most part, in profuse sweats, in one sit, which leaves the habit perfectly free from sever for some time, and returns at stated periods.

CURE. The indications are, to prevent the return of the febrile affections, by taking off the too great incitability of the nervous, and irritability of the vascular system, by giving tone or strength to the nerves and vessels, and rendering them incapable of feeling the effect of morbid particles in the habits, called marsh miasmata, and ejecting them out of the constitu-

tion.

But at the commencement of fevers we cannot immediately discover of what particular nature they are, and one the least

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dangerous may be converted into others which are more hazardous, by injudicious treatment, as an intermittent into a remittent, and this into a continued; we should at the first onset be careful, till we are convinced of its specific nature; therefore to general means we should only have recourse, which may in all tevers be proper, be they of what fort they may, and this will depend on placing the constitution under such circumstances as approach nearer to a state of health.

Therefore, in the beginning, if the pulse give evident signs of fullness, with other concomitant symptoms, which indicate evacuations to be proper, as we have before specified in the remittent and other severs, blood may be taken from the arm. Should there be nausea or sickness, indicative of soulness of the stomach, an emetic, (No. 11, 12.38.) should be administered, and the bowels cleared by some gentle aperient medicine. (No. 3.22 to

24.)

Where these are thought necessary, bleeding and cathartics should precede the administration of the emetic, that no mischies may arise from its operation, which might be the case, should there be any local congestion, or too great general fullness, by rupturing, or distending the vessels too much, or pushing the blood too powerfully into the small capillary tubes, particularly of the head.

If these prove insufficient, we must proceed to the use of antimonials in small doses, united with the saline mixture, or alone, (No. 6 to 9.) as has been before directed—and, as soon as the sever shews what it is, take such steps as its nature demands—if an intermittent, the most powerful medicine, with which observation and experience has furnished us, is the Péruvian bark, (193, 194.)—the quantity given should be generally so much in the interval between the sits as will prevent their return, that is, in adults, from six to eight drams.

The most efficacious mode of administration that has been re-

commended, is in powder mixed with red wine.

Where the intermission is short, it is given at shorter intervals and vice versa. I always consider what is most agreeable to the patient respectives the form, and give a dose every one, two, three, or four hours, as occasion requires—the nearer the approach of the usual time of accession, the quicker it should be repeated, in order that it may at that time exert its fullest action with its greatest power.

Should the febrile fits be by these means conquered, we must not totally desist from its use, but for a sew days repeat it at proper intervals, every sisth or fixth hour; then for a week, twice in the twenty-four hours; afterwards, once for the fame,

space.

In winter, after desisting for a week, or ten days, it will be prudent to return to it again occasionally for two or three days, and so persist for a few times, which will effectually secure the patient from a relapse. Add to this, the patient should avoid exposing himself to the remote or inducing causes, (257.) use gentle exercise, particularly riding—light nutritious diet—animal food—red port, claret, or any generous wine, in proper quantities—such as are easily digested, will serve to strengthen the solids, and promote a free and regular circulation.

Large draughts of any kind of liquids, however thirsty the patient may be, should not be allowed in the cold sit, as they will load the stomach too much, and increase internal oppression and uneafiness; but in the hot sit, watery suids, such as sage, rosemary, balm-tea, small white-wine whey, and such like, may

be liberally administered.

The forms in which the bark is administered, are either in bolus, pills, electuary, decoction, infusion with cold or hot water, simple powder, tincture, or extract. (See the doses, 193,

When we want to throw in as much as possible in a given time, (see No. 70.) and let it be administered every second, third, or fourth hour, according to the times of the sebrile accessions.

(258.)

Where bark has disagreed, equal portions of quassia wood and snake-root, insused in boiling water, or oak bark in powder, or extract alone, joined with alum, or chamomile flowers, have been essications, given during the intermissions every three or sour hours, (No. 71, 72.)---the virtues also of cupulæ, or scaly cup, which embraces the bottom of the acorn, are similar, in a consi-

derable degree, to the oak bark.

The method above laid down will generally be successful in the quotidian and tertian intermittents, (257.) particularly if we couple such medicines along with the bark as the nature of the constitution of the patient, and the apparent sebrile symptoms indicate, viz. if the habit appears robust, the pulse, in the febrile sit, sull, hard, and quick, with other inflammatory symptoms, bleeding has been greatly beneficial; and in these cases, joining the bark with saline substances, as tartarized kali neutralized with lemon juice, (No. 1.) and the decoclion of bark, or fixed sal ammoniac, (176.)---if contrary appearances, cordials and volatiles have supplied their places, as volatile salt of hartshorn, (150.) tincture of snake-root. (179.)

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Notwithstanding which, they will sometimes prove very obstinate---in these cases vomits (No. 11, 12. 38.) given a small space of time before the return of the sit, and antimonials in small doses, (230.) pursued through the course of the hot sit, have been found beneficial---or, where the habit has been in a highly irritable state, opium, (152.) administered before the sit, or in the hot stage, seemed of use.

It is only though in the quartan (257.) intermittent that they are often required, feldom in the others preceding, notwithstanding the hot and cold fits continue a shorter time than the two for-

mer, the whole fit feldom lafting above five hours.

Bark feldom fails of completing a cure, if judiciously adminiflered, and the concomitant circumstances which sometimes appear, are properly attended to---when it does, the failure is owing to some of the following particulars---either it has been given in too small doses---not persisted in long enough---given in an improper form---or such medicines may not have been added to it, nor such a regimen observed, as the peculiar nature of the case required.

Sometimes the bark has a tendency to pals off through the bowels, then it is necessary to add a few drops of tincture of opium to each dose, which will prevent that effect---at others the habit will be too costive, eight or ten grains of rhubarb may be given soon after the cessation of the sit, to obviate that inconvenience--sometimes the stomach will not bear it, it may then be

administered in form of glyster, (No. 73.)

It is sometimes extremely difficult, and very often impossible, to get children to take a sufficient quantity of this medicine to answer the defired purpose-for the best form to which they will

adhere the longest, (See No. 74.)

But they have been cured by baths, in which half their body has been immersed, of bark decoction, rubbing the spine with equal parts of soap liniment and tincture of opium---or wearing a waistcoat made of callico doubled, within which bark has been

quilted.

With respect to our prognostics in this disease, when eruptions appear upon the lips, they afford a good omen; and the more regularly the sever passes through its stages, so much the better. Epidemic severs of this kind are worse than those which occur accidentally to a sew---quartans than quotidians or tertians---autumnal, than vernal---Inslammation of the tonsils is considered as mortal---sometimes it carries off those who are very insirm in the first stage---they frequently leave the constitution extremely weak, so that it requires a long time for the re-establishment of perfect health; which must be assisted by proper regimen, and exer-

exercise, as has before been specified, after the termination of other severe severs---sometimes they terminate in jaundice, consumptions, and dropsies, which, if they arise from scirrhosities, or

hard irrefoluble cumours of the vifcera, are fatal.

But, notwithstanding what may be thought, with respect to the necessity of an early cure, it is not always proper to take off this fever immediately—for by their continuance, they have been known to cure epilepsy, severe coughs from affections of the liver; also hypochondriac and gouty affections have disappeared, by this fever bringing about, from its continuance, some salutary constitutional changes—the bleeding piles, small-pox, and other acute severs, as well as strong mental affections, have been known, on the other hand, to subdue the ague.

SECTION XI.

HECTIC FEVER, or

CHRONIC REMITTENT FEVER WITHOUT CRISIS.

THUS would I wish to denominate this fever, because the word negretic, except from long continued custom alone, gives us no determinate idea respecting it; and where any complaint is peculiarly marked by any known cause or symptoms, by which it deviates from all others of the same class, and by which from them it may be distinguished, can be confined in a very short compass, by terms expressive of that peculiarity would I have it marked down. As, therefore, hectic sever is of longer duration than any other remittent sever, goes off, when curable, by no known criss, and, during the whole course, has various exacerbations and remissions. I have ventured to alter its appellation.

Authors have been much divided with respect to this sever, some considering it always symptomatic, deriving its source from some local complaint, and depending entirely on that—others, that it may also be a primary disease, neither arising from, nor dependent on any other—for the latter opinion I confess myself an advocate; for, though hectic symptoms certainly do derive their source from scirrhous obstructions and ulcerations of all the viscera, more particularly of the lungs (28.) and mesentery, (46.) because it is said the former are exposed to injuries from the external air, and the force of the blood circulating through their

their substance; the latter is subject to the same from compresfion of the aliments in the first passages, from viscid chyle, (43.) and the flower circulation of the blood through the intestines; ftill may they arise immediately from some acrimony of the blood, because they have occurred certainly where no one viscus, through the whole course of the disease, was affected more than the rest; nor do the visceral obstructions, which are always found on diffection, destroy the validity of this opinion; for they are the effects, as well as causes, of hectic fevers-of which we shall be convinced, if we will only examine the remote or inducing causes, which we shall shortly specify.

DESCRIPTION. The fymptoms are very fimilar to what appear in confumption of the lungs-the patients labouring under this complaint have a continued, dry, unnatural heat; they Iole their appetite, and their pulse is small, weak, and frequent, though fuller and stronger after eating; they have no sensation of fickness; after meals a flushing of the cheeks comes on; and their urine is in general red, and covered with an oily pellicle; their fleep by no means refreshes them; they become hollow-eyed; their skin grows harsh, the belly sinks inwards; a colliquative loofeness comes on, the body grows tabid, and death makes

its approach by flow degrees.

On this fever the fagacious Dr. Heberden has made several nfeful remarks in the London Medical Transactions, Vol. II. page: 1, &c. amongst which he fays, " the most certain mark of this " fever is, when the fweat, which usually attends this fever, is " over; the fever will fometimes continue, and in the middle:

" the chillness will return."

This is very readily distinguished from all other fevers by the flowness of its progress-but from the first stage of the watery head, with great difficulty, and not without the most assiduous

attention to the symptoms peculiar to each.

Remote or inducing are, immoderate and long CAUSES. continued mental affections-long watchings-too great evacuations, whether of blood, milk, femen, faliva, pus, fweat, or the alvine fluids-too acrid medicines, as mercurial preparations, strong purges, too often repeated-debility of the first passages, by which the chyle, either crude or corrupted, is conveyed into the circulating mais of fluids --- preceding difeases, as intermittents, fmall-pox, measles, dropfy, fcurvy, king's evil fo called--suppressed evacuations --- frequent intoxication --- old people and infants are also subject to it, from their age alone, dependent up. on constitutional debility.

The proximate or immediate, both from the preceding causes and the modes of cure, are faid to be, a faline and alcaleicen

flate of the fluids---whether this may be the precise case, perhaps it may be difficult to determine---though mucilaginous materials and acids are said to be beneficial, yet it is highly probable some species of acrimony takes place in the habit, as the fun-

damental principle of this disease.

CHARACTERISTIC SIGNS. Febrile affections long continued, having frequent increase of violence, no perceptible intermission, and not terminating in criss, attended with irregular vascular action increasing often in the day, more so in the evening; and generally at the beginning with tenacity, towards the termination, with putrescency of the blood.

CURE. The indications are, to mitigate febrile affections,

and correct the acrimony of the fluids.

If care is taken of this complaint at an early period, and proper advice administered, a cure may be effected---but, under these circumstances, patients often delay too long, and conside either in their own imaginary knowledge, or the family receipts of some humane old woman, till little chance remains for the skill of the more judicious; for when the powers of the constitution become to be greatly debilitated---the hair falls off---a colliquative dissolving looseness, night sweats, and swellings of the legs come on---the urine begins to have an oily appearance, and the countenance assumes a cadaverous aspect, becoming thin and ghastly, all prospect of warding off the fatal blow is irrecoverably gone, the patient is got beyond the reach of our art, and death quickly closes the fatal scene.

In the beginning, where we can be of fervice, we must first of all clear the stomach and bowels by gentle emetics, (No. 11, 12.) and mild aperients, chiefly rhubarb—abate the febrile heat by small doses of Polychrest salt, (171.) and nitre, (177.) and giving such doses of oil of castor, manna, or some such like cooling and gently opening medicines, as will keep the body free from costiveness, (171, 172.)—in order to sheath the acrimony of the stuids, we must have recourse to demulcents, (187.) emollients, (137.) and particularly, which will be more effectual, to a well-regulat-

ed diet and regimen.

The food should consist of chicken broth, jellies, and if the sto-mach will bear them, oysters--milk, particularly women's or ass'--goat's whey--buttermilk, with Bristol or Seltzer water. The patient should live in a clear country air, on a dry soil; keep cheerful company; ride constantly on horseback, or travel from place to place--or he should take a voyage to sea, or sail every day, for that has been known to save numbers in the beginning of this disease, and some who were rather advanced; but to all it affords great relies. And at the same time, with intent to keep

up the tone of the fystem, mild astringents, slight infusions of bark, one ounce and an half, with ten drops of dilute vitriolic acid may be given twice a day, or two or three ounces of tincture of roses also; three or four drams of the conserve may be mixed with fix or eight ounces of milk, and taken two or three times, or oftener, in the day;—as for common drink, they should use barley water, decoction of marsh-mallows, linfeed-tea, or that of colts foot. Bristol water has been esteemed highly serviceable; but it is often deferred too late. In the earliest stages of this disease it should be applied to, for in them it promises to be of the most essential service, little, as we have before remarked, being capable of being done in the more advanced or latter periods.

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SECTION XII.

ERUPTIVE FEVERS.

So called from the Latin word erumpo, to break out, and also in medical language EXANTHEMATOUS, from the Greek word exanthema, pustula, a pustule, because these eruptions make their appearance on the surface of the skin--- and this is done by the effort of nature to throw out some matter offensive to the

conflitution, which was creative of difeafe.

Now though these partake of the nature of some of those we have mentioned in Section 8th, still they derive their names from the eruptions with which they are constantly accompanied, and of these there are several species and varieties—of which we shall treat separately, because they require different modes of management, according to the different effects they produce upon the constitution.

And these effects will be affished or alleviated, by attending more to the habit of the patient than to the specific nature of the morbid particles which produce them; for we know nothing of the materials, or the parts of which they are formed, consequently cannot be able to find out any specific remedy which can correct them, so that the disease, of which they are the source, may be subdued, by weakening or destroying the power inherent in themselves.

Therefore, in all our medical exertions, we attempt only to prevent the ill confequences they are likely to produce, by fo guarding the constitution, that nature may be empowered to fe-

parate:

parate and throw out what would, if suffered to remain, prove fatal to the human machine, either producing immediate death, or bringing on other maladies which would in time have a similar termination.

Now all these fevers of which we are going to treat are esteemed infectious, confequently contagious; for these two terms are used fynonymously by the most learned authorities. flanding which, I would endeavour to make fome discrimination between them, and am warranted in the attempt, if any the least benefit can be derived to fociety by the observance of such a diftinction; to prove which, I affert, that there are some diseases which are acquired by the particles of morbid matter floating in the circumambient atmosphere, either from that matter being inhaled by the lungs, impregnating what we eat or drink; or abforbed by the inhaling veffels of the skin, nose, or fauces, whilst others are communicated from contact alone-hence the former of these I would term infectious, the latter contagious; and for this reason the modes of prevention would be different-for in a country or town where the first was rife, quitting those places is absolutely necessary; but where the last, cautious residence in the same is sufficient, avoiding commerce with persons so contaminated; or touching any materials, which are capable of retaining the contagious matter, that have by them been used or handled. Befides, in this county, it shews, in cases of the plague, the fecurity in drawing lines of circumvallation to prevent its progress; indeed other modes, from this idea, might be found out of great utility under these unhappy circumstances. Supported by these reasons, I shall beg leave to preserve the difference between the two terms, and proceed to treat on eruptive fevers from infection; and, first, on the

I. SMALL-POX, or Pocks.

Because we call a single pustule pock—this seems to be derived from the Saxon word pocca, pocket, or the French poche, a small bag. The Latins gave the disease the term various, because

from the eruptions it altered the appearance of the skin.

This complaint is occasioned by morbid matter of a peculiar nature absorbed into the habit from the external air, from contact of a person infected, or from inoculation, either by the inhaling vessels of the skin, lungs, membranes of the nose and mouth, or first passages—and has been divided agreeable to the cuticular appearances, into distinct, consuent, coherent—or into common, crystalline eruptions full of thin serous matter—verru-

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cous, resembling warts-or bloody, filled with red fluid, or blood

in a broken state.

However generally now we adhere to the terms distinct and confluent; but this seems of little use in practice; for they may be distinct, yet of a very bad kind; and confluent, yet very good; therefore the more eligible division appears to be into simple and malignant—the first comprehending those which are the least, the last, those which are the most dangerous.

This disease has four stages: the first, the febrile, which continues three days—2d, the eruptive, two days—3d, the fuppurative, sive or seven—4th, the exsiccative, or stage in which the pushules dry, two or four days—or sometimes another sever

comes on, called the fecondary.

DESCRIPTION. It generally commences with fymptoms of an inflammatory fever, from whence the particles of the morbid virus are confidered not only highly subtilized, but inflammatory and stimulant, attended with nausea or vomiting—pain in the head and back—tightness about the pit of the stomach—the patients are very drowly, sometimes delirious—in grown people often sweats break out on the first days, and infants are apt to be seized with convulsions—the skin though, in general, is rather moist and soft—the upper orifice of the stomach sometimes

acutely painful, and also the fides.

These symptoms continue three or four days, on which appear small red specks like slea-bites; which, when pressed with the finger, may be felt hard in the fkin, and thus may be diftinguished from other eruptions, particularly the measles, which, on their first appearance, are very seldom so hard, or can be felt in this manner, as not elevating the cuticle fo much; first on the face. and feattered on the hands, neck, and breaft; and with thefe commences the fecond stage; from which period the puffules keep continually increasing, and diffusing themselves over every part of the body; at which time the fever goes off when the erup. tion is completed; after this they inflame, begin to be prominent above the skin, are painful, hot, and fill about the fifth day; and have round their basis a circular storid redness-the throat also is painful, and inflamed commonly—the face begins to swell and puff up, for the most part, on the seventh day, so much, that they generally close the eyes, and occasion blindness.

At this period, the commencement of the third stage, as if from external irritation, soliciting the perfect and complete discharge of morbid matter, sresh sebrile symptoms arise, which continue to the ninth, tenth, or eleventh day, according to the severity of the disease, or quantity of the eruption. The pushules having acquired their sull size, most of them as big as pease, are filled

with a whitish or yellowish matter; this concludes the third stage; and then the matter oozes out at the top of the eruptions, dries, turns of a dark colour, and forms hard scabs, and this is in the same order in which they made their appearance—and, as the tace subsides, the seet and hands swell, and subside not totally till the sourceanth day, at which period the disease is considered to have completely sinished its course, which sorms the conclusion of the fourth stage.

This is in general the progress of the simple or mild species—though sometimes another sever, called SECONDARY, will come on, when the eruptions have run so together, that they form one uniform crust, and by that means obstruct perspiration; to that, instead of the quantity of variolous matter passing out of the habit, it is again re-absorbed, and the intestines are loaded with an offensive collection of acrid materials, which create a sever of the

remittent class that often proves fatal.

But in the confluent fort there are some peculiarities which ought to be specified; and, therefore, we must observe, that in these the pushules break out sooner, on the second or third day; the sebrile symptoms run on with a greater degree of violence—and on the appearance of the eruptions, or a day or two after, which happens now and then in the distinct fort a sputting will come on, gradually increasing to a salivation in grown people—in infants a looseness supplies the place—though in common the attendant sever of the small-pox is of the inflammatory kind, yet, in the more complicated sort, the sever assumes a different type, and puts on the appearance either of—1st, an inflammatory remittent—2cly, nervous—3dly, putrid sever—or is associated, 4thly, with symptoms of aysentery.

IN THE FIRST, the febrile affections run very high, with exceffive heat, and great proftration of ftrength—the fkin is dry and hot-the arteries, called carotids, running through the neck into the fuperior parts, throb—the tendons, (22.) grow fliff—the eyes are bright, vivid, and full of blood—the head and loins are painful, often without any delirium or drowfy disposition-when the eruption is finished, if the patient dies not before the completion, which, from the violence of the fever, is fometimes the cafe, the head-ach, pain in the loins, vomiting, and other fymptoms, are relieved; but the fever revives its former force, or continues, and has increase of febrile affections every thirty-fix hours - hence termed tertian; -at this period there arise want of fleep, delirium, anxiety-there also come on bleeding of the nose, copious fweats-then heat, and drynels of the ikin-very often miliary eruptions break out in spaces between the pultules, or fmall purple spots like flea-bit-sometimes an erysipelatous in-

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flammation will occupy the head and face, and occasion a large inflammatory swelling—the febrile and other symptoms increase in the suppurating state, with tosting and delirium—the pustules subdue not, nor feem to be of a very bad fort—sometimes though they grow black and mortify—then the patients lie in a state of aparent sleep, and convulsions close the scene.

IN THE SECOND, at the commencment, there is great proftration of strength, lowness of spirits, obscure febrile symptoms, ex-

treme nausea, sickness, and oppression.

The puftules never push forth perfectly, nor maturate kindly, but many lurk in the skin; and those which elevate themselves a little above it, are slat and depressed, containing a thin aqueous shuid, and have a small black spot in the middle—the sace, when the eruption is copious and runs together, never swells, but looks as if covered with a yellowish skin, something like a macerated bladder of that colour.

A thin ferous loofeness generally comes on-if not, convulsi-

ons put a period to the unfortunate patient's existence.

In the third, the fymptoms preceding the eruptions are nearly fimilar to the former; but the pultules are black; the bottoms of which are in a mortified flate; indeed, the texture of the blood is fo broken by the patrefcent acrimony, that it runs off by urine, and various other hamorrhages; the spaces between the pultules are black, and large broad spots, called vibices, or small ones, like slea-bites, are formed on the skin; besides, the red portion of the blood not only mixes with the ferum, and fills the eruption, but it raises large blisters elsewhere.

These pustules, which are only a little elevated, beginning to appear upon the second day, are black; the urine, for the most part, is bloody; as are also the stools, spittings, vomitings, and in some even the tears; the sever is violent, and the sebrile sits almost insupportable.

IN THE FOURTH, which was called DYSENTERIC, because it happened in the year 1670, at the time of the epidemic dysentery, and partook, in some degree, of its nature; or, because the matter of the small-pox was often thrown out of the constitution by intestinal evacuation, when treated by the warm regimen, not un-

common in those days,

In this the eruption does not occur, as in the mild fort, on the fourth, but on the third day; the pustules are of a less size always, and are sharper, or more pointed at the top, and grow blackish towards the conclusion—besides, a copious discharge of saliva, as in the consluent kind, is often a concomitant. Should the acrimony of the putrid, which produces the alvine flux, that forms

forms the characteristic sign of this species of small-pox, be very copious and active, occasioning the discharge to be violent, it

almost always proves mortal.

CAUSES. The remote or inducing of this, as well as of every other species of infectious or contagious fever, is a predisposition, or peculiarity of the conflictution to feel the impressions made by the morbid matter, productive of distress in the moving solids, and alteration of the sluids of the machine.

The proximate or immediate, contaminating particles, peculiar to the small-pox, absorbed into the habits, and these producing febrile effects, which vary according to the nature, or particular

flate of the conflitution at that time.

CHARACTERISTIC SIGNS. The only certain ones are the eruptions themselves, with their progressive concomitant symptoms, the appearance of which may be suspected in the sirst stage, if the attack should be sudden—if the small-pox should be the reigning epidemic, or the patient so situated, that he has been thrown in the way of this specific infection—if pain should affect the back part of the head, sauces, loins, particularly the pit of the stomach, attended with vomiting, and that pain increased on pressure.

CURE. The indications are, to diminish the assimilating or contaminating power of the morbid matter, and keep the fever within such bounds, that nature shall be enabled to separate from and throw out of the habit the offensive materials that cause the distress, which is done by so regulating the motions of the nervous and vascular systems, that the constitution may be put into a state to mitigate and support the succeeding contest with the

greatest ease, and freedom from danger.

And this knowledge we shall acquire, by considering the situation of the habit, the mode of living, and season of the year, with respect to the weather or constitution of the air, as these will dispose more or less to the production of inslammatory, nervous, or putrescent sebrile assections; for I am certain, that, according to the nature of the sever, so are we to regulate our conduct, and hence observe those rules which have been previously laid down in the management of those different severs specified in our eighth and ninth sections.

of medical affiftance, though at the close, in order to clear the first passages from any soulness or offensive matter which may have been collected there during the progress of the complaint, it would be right to give two or three purges. (No. 3: 19 to

24.)

At others, it is of a very dangerous nature, and requires the

as it is accompanied with such a variety of threatening symptoms.

Should the small-pox attack strong, hale, robust habits, where inflammatory symptoms run high, which they sometimes do to such a degree, as to affect the brain, throat, or lungs, so as to produce delirium, suffocation, and extreme dissibility of breathing; according to the violence of the symptoms we must have recourse to bleeding, and that repeated, if they give not way to the first operation—indeed, if the pulse is hard and full; the heat considerably above the natural standard; the urine high-coloured; the pain in the head, back, and loins acute; the bleeding at the beginning should be copious—and, under these circumstances, blood may be taken even at the height, or any intermediate stage—we may also give antimonials, nitrous and cooling medicines, and such other things as have been advised in cure of inflammatory severs, (210, &c.) for the same reasons.

If the head should be violently affected, the feet may be bathed in warm water, and warm fomentations, or poultices, applied to them; for these will solicit a freer circulation downwards, a more copious eruption into the extremities, and diminish the quantity of variolous matter, which otherwise would appear in the

more fuperior parts.

Atter once or twice bleeding, a gentle emetic, (No. 11, 12. 38.) would be useful, and clearing the first passages with some mild aperient, (No. 3. 22 to 24.) or at least repeated glysters

every, or every other day, (No. 25, 26.)

By the means above directed, we reduce the active power of the fystem, that it may not be hindered from throwing off the matter of the small-pox, by the too great disturbance and distress occasioned by the rapidity and violence of febrile ac-

But should the train of symptoms be such as indicate the presence of a nervous fever, (225.) we must endeavour to rouse the vascular motions, and increase the activity of the nervous system, in the manner we have directed in nervous sever, (216.) for, without this, there will only be a partial separation of the variolous matter thrown out upon the surface of the body; and the internal parts, such as the brain, stomach, lungs, and bowels, be more loaded, and the suids not perfectly free from morbid particles. To obviate these inconveniencies, we must not do any thing that is likely to turn the humours upon the bowels, nor take away any blood; for these would weaken the system, already in too debilitated a state, and render the sluids too acrimonious; we must try to invigorate the constitution, in order that the blood may circulate with proper freedom externally, by wine,

wine-whey, volatiles, and cordials, (218.)

The load, nausea, anxiety, and oppression, which are almost always constant concomitants in this species of sebrile affection, might be relieved by an emetic. (247.) for the shock would tend in some degree to rouse the system, and promote the eruption by that means.

Should the fever attendant be of the putrid kind, and betray fymptoms of prevalent putrescency in the humours, we must not have recourse to the lancet; for bleeding would hurry the constitution rapidly into all those mischiefs which arise from extreme debilitated nervous action, and broken texture of the blood, as before explained when treating on putrid fever. (223.)—here we must depend upon bark, and such things as were specified when treating on that malady.

In order to promote fuccess in treating this complaint, in the best manner we can, by procuring a separation and expulsion of the morbid matter, we must, indisputably, pay attention to the precise nature of the sever; for it is by properly regulating that

from whence we can hope for perfect and lasting relief.

Particular occurrences prefent themselves frequently, which call for our attention in an especial manner, added to the general plans we have specifically pointed out, in which we must at-

tempt to imitate nature in her operations.

When infensible perspiration is too much impeded by the pustules crowding so close together, and obstructing the pores of the skin, she produces either a copious spitting, free discharge of urine, or looseness, to make up that defect, or lodges the aqueous shuid in some part of the cellular membrane (26.) of the hands and feet, which at that time put on dropsical appearances—hence is pointed out to us the necessity of serous evacuations.

It is therefore incumbent upon us to endeavour to promote the flow of urine from the completion of the eruption to the turn, by the use of diuretics; the sasest of which is eithereal spirits of nitre, (176.) and taking the patients now and then out

of bed, and exposing them to the cool air.

Small doses of calomel, under these circumstances, have been attended with some success, as they often promote a spitting, or increase the discharge of urine; or, should we be assaid of determining the humours too much to the bowels, it may be thrown into the habit in form of ointment, rubbed in above the knee, or on the inside of the thighs.

But if these discharges are desective, or cease altogether, and there is no swelling in the extremities sufficient to counterbalance the decreased or obstructed evacuations, the ankles or wrists must be bliftered, by infinuating some bliftering ointment into the spaces between the pustules—and if this succeeds, by creating a free discharge, the danger which before threatened may be happily prevented—if not, we shall have reason to fear a fatal conclusion.

Sometimes reftleffnels will be occasioned, and the febrile fymptoms increased, by irritation on the surface of the body, creating pain, as the puffules proceed to perfect maturation and drynefshere opiates (151.) (No. 4, 5.) procure ease and sleep, forward fuppuration, expedite feparation and expulsion, by preventing internal diffurbance in the fystem from the causes above specified. But, perhaps, by their use the body may be rendered coftive; or if so, at this period, from any other cause, gentle aperient medicines have been recommended; but glysters, (No. 25, 26.) every day till the drynefs of the pocks takes place, are more eligible, as from them there can be no danger of creating the fmallest disturbance in the habit, nor of determining the fluids too much to the intestines, so as to run the least risque of inducing a loofeness; and they will also effectually affilt in preventing an increase of febrile diffress, which might arise from collections of acrimonious matters in the fieft paffages.

Sometimes after the incrustation is perfectly formed, from the reforption of pus, offensive acrid matters in the first pasfages, or the absorption of acrimonious or sætid particles from soul linen, the secondary sever is apt to arise. In order to prevent which, the patient should have his linen changed, be put into fresh sheets well aired, every thing be removed from him which can be supposed to harbour offensive matter, and a purge, (169, &c.) (No. 19 to 22.) given as soon as the crust is

actually formed.

Though fome conjectured, with equal if not with more probability, that this fever arises from the imperfect separation or expulsion of the variolous matter, and that it becomes the instru-

ment of nature to free the habit from what remains.

However, be the case which it may, if it runs high, and is attended with violent head-ach, great oppression, and difficulty of breathing, bleeding may be necessary, and so long as the pulse can support the operation well, it may be repeated—blisters should afterwards be applied—and purgatives administered, if the pulse does not slag—and vegetable acids should be mixed with common drinks—but should the strength fail, we must have recourse to cordials.

If it goes not off by these means, it will, in all probability, put on the appearance of a remittent sever, and as such must be considered—for the subduction of which, we must, as in cases of those

those fevers before specified, (252.) apply to the bark, (253) and with respect to the quantity to be applied, the age of the patient,

and violence of the difeafe, must regulate our judgment.

Some, in order to mitigate or prevent this fever, have advised the puffules, as foon as they are fully matured, where they are of the confluent kind, to be opened as they ripen, in the order they make their appearance. I am, however, far at prefent from recommending the adoption of fuch a plan, as I should be fearful of the most dangerous consequences ensuing from such a practice, particularly where the fever, after the eruption, still continued with any degree of force; for it is very probable that, from thence, there is not a due separation of the morbid materials, and that the fecondary fever is very often, at least, an effort of nature to throw what remains out of the habit-and that by the irritation on the skin this purpose might better be effected, than by its being taken off; for from fuch attempts, there has been reason to believe death the confequence. Much mischief has accrued from applications made to gouty limbs, from the impetuolity of the fufferers to take off the pain ariling from that cause, before the whole of the gouty matter had been deposited; and in these two cases the reasoning is nearly similar, as well as some others; and it is well known, that nature frequently makes pain arising from fome irritating power the fole cause of constitutional relief. I would therefore advise great circumspection on the present point. which only can be warranted by practical certainty, not whimfical, though ingenious, conjecture.

Sometimes the small-pox will be attended with a remittent fever. (250, &c.) verging to the inflammatory class; then the difease must be treated in the same manner as we have delivered

when treating on that fever. (210.) (See 252.)

Sometimes the eruptions will put on different appearances, (263.) which from thence are called CRYSTALLINE, and be attended with a nervous fever; in this case therefore, we chiefly depend on blisters and vinous cordials, with such other aids as we have specified in the treatment of the flow nervous fever. (216.) Or SANGUINEous or BLOODY, and have for their concomitant a putrid sever; in which case, without some service can be done in the beginning, not one ray of hope remains for our success—for which purpose we must depend upon bark, and such other antiseptics, (192.) as are supposed to have the most powerful and immediate action, the principal of which is alum, (137, &c.) (No. 56.) and pursue the mode of management throughout, as recommended in the putrid sever. (223.)

Or, they are attended with extreme pain, and violent flux from the bowels, putting on the appearance of dysentery, (268.)

—in this case we must endeavour to retard the slux, by some gentle cordial antacids, of the shell or earthy kind, (191.) called absorbents, (No. 42, 43.) or the white decoction, with red port or

claret, or aftringent draughts. (No. 75, 76.)

But in this complaint much nicety is required—for alvine fluxes are not always to be confidered morbid, they are fometimes critical, and the means of which nature makes use to carry morbid virus out of the habit—if, therefore, the pulse does not fink, but continues to move with strength and greater freedom, and the oppressive symptoms are all alleviated, the use of astringents should be cautiously administered. It would be more advisable, to support the patient by mild cordials, and exhibit such medicines as would sheath the bowels, and suffer the matter to pass through them with the least uneafiness—small doses of ipecacuanha (No. 57.) will be beneficial, and preparations from the class of the demulcents, as mixtures of gum tragacanth, Arabic, slarch, and such like; and, towards the conclusion, opiates, joined with some of the mild astringents, might be used. (No. 77, 78.)

With regard to the diet, it is always to be adapted to the nature of the fever, during its continuance, which may be collected from what has been faid on this head, when treating of the inflammatory, nervous, and putrid fevers. The apartments must be kept cool, and the patients fit up some hours every day, if the circumstances of their case will permit—and after the complaint has sinished its course, purgatives should, at proper intervals, be repeated, to clear the habit of any remains of morbid particles; and the same course pursued for the recovery of the strength, as after the conclusion of other severs, where the con-

flitution has been much harraffed.

Long experience have enabled practitioners to make the following observations respecting the good and bad omens in this disease:

The later the small-pox make their appearance in winter the less dangerous they will be—they are also more mild in the young subject than the strong adult—the longer the first, or sebrile stage, continues before the eruption, so much more mild; the shorter, so much the more violent may we expect the disease to be—should there be an acute pain in the side, or in the upper orifice of the stomach, they are bad signs—the more the pustules crowd togewher, the more numerous they are in the sace and trunk of the body; the more stat or depressed, the slighter the remission in the second, or eruptive stage, so much greater will be the danger—a delirium succeeding the eruption imports no little mischies—desiciency of the salivary discharge, in the depressed or confluent sort, is one of the worst symptoms—the more slorid the spaces between the pustules

tules are, the greater may be our hope; palenefs there affords us

no flattering prospect.

If the matter in the pustules be white, viscid, and full, it is a fortunate appearance; but if, on the contrary, it should be brown and thin, and the puftules grow yellow, or have their tops indented, it is the reverse-if the spaces between the pustules, and they themfelves, are livid, death is at hand.

It is also a bad omen if the secondary fever appears before the retrocession of the pustules-if the face subsides, and the salivation or spitting ceases, and the bands and arms swell not in the same propor-

tion, in the confluent fort, it is a fign of death.

If, on account of being too heated, the patient cannot bear the bed-cloatbs upon bim, it portends a delirium-great inflammation of the fauces, quickness in breathing, clear urine, with little cloudiness floating in it, grinding of the teeth, picking of the flocks from the bed cloaths, threaten diffolution-nor are we to build any hopes on the remission of delirium, if the fever continues in the fame

state.

Before we close this part of our subject, we must beg leave to make one general observation respecting all eruptive fevers, as well as the fmall-pox-that as many, though their eruptions arife from the confequence of their peculiar action on the conftitution, and produce specific cuticular appearances, are ushered in by some fever, either of the inflammatory, nervous, or putrid kind, in general; yet, should they be attended, as sometimes they are, with those of the mixed class, where we cannot perfectly diffinguish to which of the more simple fort they belong, we must treat them according to the ideas given in the mixed fevers. (240, &c.)

2. INOCULATED SMALL-POX.

It is rather fingular, that after fo many years experience of the advantages accruing from inoculation, that there remain any fo blinded to their own interest and happiness, as to be defirous ftill of abrogating the practice—which is the preferver of life, beauty, and health, fo perfectly clear to common observation.

The mere recital of the benefits annexed to it are fo conspicu-

ous, that reasoning is unnecessary.

It supplies us with the opportunity of having the body properly prepared for the reception of the morbid matter; fo that it may be freed from such materials as would supply an active cause to increase and prolong febrile affections; and thus prevent the fever, which always attends in the fmall-pox, from running too high, or producing otherwise dangerous effects, according

to the nature of the constitution—it occasions a smaller quantity of eruptions, and the pullules to be more superficial—hence not leaving those deep pite, and often unseemly scars as in the natural small-pox—it supplies us with a knowledge of the disease at the first onset, and enables us to provide against its consequences—it empowers us to throw in the matter into the constitution from places far distant from the vital parts, and prevents the lungs being primarily affected—and, what is of great consequence, it enables patients to escape the secondary sever, so satal to numbers; for in this artificial sort it rarely attends—add to this, the operation is so extremely trisling, that it is performed almost without the slightest pain, in the following manner:

The scarf-skin, of one or both arms, is clevated by a lancet, upon which some of the infectious matter, taken from a patient labouring under the small-pox, remains, then pressing the scarf-skin upon the lancet, and with drawing it from under that pressure, the variolous matter is left upon the true skin, and taken into the habit by the absorbent inhaling vessels, which open up-

Subjects of every age may be inoculated, even such as are at the breast; by some esteemed the best time of life; but it should be before they begin to cut their teeth—certainly their constitutions are at that time in the most proper state—and, could we be assured that no accident would occur that might need the aid of medicine, there could not be a moment's hesitation respecting the preference; but, on this account, I shall rather recommend inoculating at two years old, when complaints could not arise from teething when the constitution was not in so irritable a state as to be inconvenienced by slight causes—and, in cases of necessity, should they arise, the application of medicines would be less resisted.

With regard to the feafon, practitioners have differed in that point—the hot months in fummer 1 confider as the most exceptionable, and give the preference to those which are the most temperate—the spring, or latter part of autumn, taking care, during these periods, to avoid performing the operation when inflammatory or putrid severs or other acute complaints were epidemic, for very obvious reasons.

The modes of preparation should be adapted to the constitution

of the patient.

on its furface.

Generally living cool and temperate for three weeks, feeding on acefcent food, with now and then a gentle mercurial purgative, for those of healthful habits, will in common be sufficient—but those of puny constitutions, whose system is relaxed, should live more freely, and be allowed animal food once every day, of

the

the light and eafily digestible kind, and in moderate quantity.

mixed with acefcent vegetables.

In fine, preferving the conditution in a moderate degree of strength, clearing the first passages, removing glandular obstructions, making that system act with freedom, and loading the machine, as much as may be, with acescent sluids, seems the most

rational mode of putting the body into the best state.

By these means, the nervous and vascular system will be enabled to perform their functions properly, and the humours not become prone to run into an acrimonious or putrescent state hence nature will not meet with any impediment to prevent her from separating and throwing out the offensive matter, after it has

produced its effects on the mais of circulating fluids.

It has been thought, and I am of opinion, rightly, that it is immaterial from what fort of small-pox the inoculating matter is taken, as the different kinds produced depend not upon the nature of the morbid particles, but the constitution into which it is thrown—for there will be a bad fort arise from matter that has every mark of mildness, and a good fort from such as appears more of a malignant nature; nay, indeed, different people inoculated with the same matter taken from the same pushule, have been known, and that commonly, to have different forts of the small-pox.

However, I would always advise it to be taken from such sublects as labour under the disease in its mildest state, and have the most favourable appearing pus—for it is our business to take matter from those constitutions which, by the appearance of the pocks, bespeak the greatest purity, and freedom from any morbid taint—for all people are not agreed upon what the maligniby of this complaint depends; and many conclude that other disborders may be inoculated with the small-pox—these, therefore, surnish arguments sufficient for great cautions in our elec-

ion.

DESCRIPTION. After the punctures are made in the arms, on the second day, if the parts are examined by a good magnifying glass, there appears commonly about the puncture an orange-coloured stain, whilst the skin around it seems to contract; but ometimes an inflammation takes place on the second day, then lisappears totally—this though, may arise from irritation from the puncture, trisling as it is; we remain, therefore, doubtful whether or not infection has taken place—but if it has succeeded, on the fourth or sifth day from the operation, a hardness and teching, with an apparent inflammation of the part, is perceptible; and a kind of blister, silled with a transparent liquid, is obervable.

On the fixth day, a pain and stiffness affects the arm-pits.

On the seventh, but more frequently upon the eighth, symptoms which precede the eruption make their appearance; and these are commonly such as shew themselves in general at the commencement of fevers-cold chills and heat alternate with each other, a flight degree of languor, heaviness of the eyes, and flight pains in the head and back, are, now and then, perceptible; and thefe remain pretty constant till the small-pox manifest themfelves.

The inflammation now begins to spread very fast, and, round the punctured part, a great number of small eruptions may be feen crowding together, which increase during the course of the difeafe.

Surrounding the incision, and extending itself half way round the arm, but more commonly describing the breadth of a shilling, a circular, or oval, efflorescence is observable. The larger this inflammatory appearance is, which is fmooth to the touch, and not painful, the fewer are the general pullular eruptions-and, indeed, I have observed, when the thread was made use of, this was the case, if the discharge from the incision was very copious -now all the fymptoms cease, and the business seems to be periealy finished.

UNFAVOURABLE SYMPTOMS. Though this is the progress of the disease in general, yet it sometimes happens that there are deviations, and that we have not inflammatory appearances on the wounded arm till the eighth day, then it will fuddenly thew itself, with the other concomitant fymptoms-this is not recorded as a favourable omen-still it sometimes is in this point

deceptive.

But if the colour around the puncture continues pale, though it is barely perceptible that inoculation has fucceeded, instead of becoming red or inflamed-if the edges of the wound spread but little, and remain flat, unattended with itching, or any kind of uneafinefs-if, instead of a red inflammation about the incision, it should have a purplish cast; if red, and the circle round the puncture should be narrow and deep, and the incrustation around it should be depressed and concave in the center, they are considered us unfavourable figns.

FAVOURABLE SIGNS. On the other hand, if on the fecond day there should be an orange-coloured stain round the incifion -an itching there in two or three days -a kind of elevation of the scarf skin, resembling a blister, without much inflammation, on the third or fourth day-a pain or stiffness in the pit of the arm, a large efflorescence round the puncture, on the tenth or eleventh day, or fooner-a hardness spreading circularly from

the

the puncture, the inflamed part of the arm elevating itself, and forming a point, terminating in a dry scab; these are said to form very pleasing prognessies, and flatter us with the most agreeable expectations of a happy conclusion.

CAUSES. These are similar to what we have before recited in the small-pox—for if the constitution is not possessed of the predisposing cause, no effect will be produced, though the vario-

lous matter should be thrown into the habit.

CURE. In the evening after the puncture is made, it hath been thought adviseable to give a few grains of the calomel powder, as much as will procure two or three evacuations, purging it off in the morning with some gentle cathartic. (No. 79,

80.

Or, instead of the last, a dose of Glauber's or Polychrest salt, proportioned to the age and constitution of the patient—these are advised to be given every second morning and evening, till the appearance of the eruption. This is superstuous, two doses will be in all common cases sufficient, immediately after the operation, and a day or two before the attack. If the instammation is slight at the puncture, the dose of calomel must be increased.

Afterwards we have nothing to do but to guard against the febrile symptoms, which are in general so mild, that there is lit-

tle occasion for medicine.

At the commencement, if necessary, what has been just above prescribed are advised; and repeated two or three times, if the disease appears to be of a late or unsavourable fort.

In the intermediate days, should the fever run high, Clutton's febrifuge spirit, or the æthereal spirit of vitriol dropt into any aqueous sluid, so as to make it agreeable, may be taken of-

ten in the day.

As foon as the symptoms of the eruptive fever come on, the patients should continue to be exposed to the cool air as much as possible; for it is the best cordial and corrector of sebrile as-fection in this case, as I have repeatedly experienced.

Indeed, when the febrile fymptoms appear to be violent at the onfet, great good has occured from the administration of an an-

timonial emetic and purgative.

Where the fever appears to be languid, and the patients are of weak and delicate conflitutions, some caution is here necessary; for these, perhaps, it will be sufficient to be kept in a large well ventilated room, especially if the weather should be very cold; and they should be supported on something of a more cordial and stimulating, nature, than if things were otherwise, and the patients more robust, who should be kept, during the eraption, on a mere accessent diet.

After the eruptive state is over, and the pussules begin to maturate, small broths, jellies, white wine whey, or such like ma-

terials, may be allowed.

In this state of the disease, the weakly and more delicate may require to be kept in bed, and supplied with more cordial applications, in order to perfect the suppuration of the pustules, and totally free the constitution from any remains of the variolous matter.

If we proceed in this prudent manner, adapting our mode to the particular conflictation of our patient, we shall very feldom have much trouble; but should there arise uncommon complaints now and then in the inoculated small-pox, it will be necessary for us to proceed as directed in the natural disease, (265, &c.) observing whether it verges to the nature of inflammatory pervous, putrid, or mixed sever, and conduct ourselves confident with what the symptoms point out to our judgement.

§ 3. MEAZLES.

Called by the Latins morbilli, as being a disease of less consequence than the small-pox; as by morb llus, we understand morbus parvus, a trisling disease—they have also been named rubeo-læ and roseolæ, from the redness attending the eruption, or putting on a colour similar to roses—like the small-pox, this disease appears to be a native of the East, and has certainly a great affinity with that complaint, as they are both generally of an instantant nature, equally infectious, and never affect the constitution twice—some authors say, except very rarely indeed—because the habit cannot be brought a second time into such a state, as to feel the essential the second time into such a state, as to reproduce the disease, should they circulate ever so plentifully in the sluids a second time.

They generally make their appearance in the month of January, rage most violently about the vernal equinox, and disappear

in July.

They commonly attack children; but all constitutions, which have never before felt their influence, are the objects of this infection—hence, in the more advanced stages of life, many with them are afflicted—they are propagated by the particular constitution of the air, and become highly epidemic.

Some have confidered the attendant fever of the simple inflammatory fort; others as a catarrhal, or inflammatory remittent; some say it is of the peripheumonic kind, and conceive the eruption, not as critical, but symptomatic, as the cough and affections of the lungs will remain after that is over.

Accord-

According to my conception, it is in general a febrile disease of the inflammatory kind, always infectious, electively affecting that membrane, called scheiderian, which lines the infide of the nose, throat, and lungs, and, in its progression, the skin—though I have seen the affection of the lungs to extremely slight, as not to call forth the least attention, where there was a diarrhœa attended through the whole course of the disease.

DESCRIPTION. Its progress is divided into three stages the first precedes, the second attends, and the last succeeds the

completion of the eruption.

At the commencement there are chillness and heat alternately fucceeding each other-foon after, on the fecond day, the fever increases, attended with confiderable fickness, great heat, thirst, languor, and loss of appetite-the tongue is white-there is a heaviness of the head, and drowfiness-fneezing-brightness of the eyes, from whence flow a thin humour .-- the eye-lids fwell, and, most commonly, there is a dry and very troublesome cough --- fometimes vomiting and loofeness are associates with these, the last of a green colour, when children are getting their teeth --- and all thefe fymptoms gradually increase till the ERUPTIVE, or SECONDARY STAGE begins, which occurs generally on the fourth day; about which time fmall red spots, like flea-bites, make their appearance in the face, which run into clusters, forming larger spots, rising above the skin, perceptible only to the touch, not the fight; afterwards broad spots spread over the body downwards, not quite fo prominent, though of a higher colour than those of the face --- when the eruption is finished, the vomiting ceases, but the fever increases; and the cough, with the difficulty of breathing, become more violent --- a fweat and diarrhæa now and then supervene.

On the fixth day, or thereabout, the THIRD STAGE commences, on which the spots on the sace grow dry, and give it a rough appearance; and in three days more they totally disappear from the whole body; for on the ninth day nothing is to be seen, except a dark coloured fine farina, or appearance like bran all over the surface of the skin---at this period, the sever and cough are sometimes alleviated; sometimes increased, and terminate in a dangerous peripheumony---and not unfrequently a looseness suc-

ceeds the dileafe.

After this we are not to conclude the patient free from danger, unless, during its course, some considerable evacuation has taken place, either by sweating, vomiting, urine, or looseness; for without something of this kind occurs, the cough will continue, the sever will return with additional violence, and the N n strength not be recovered except with great commotion in the

fyflem, and, confequently, extreme danger.

Though what we have described is the most frequent mode of the meazles appearance and progress to their termination, yet sometimes they disser so much, that authors have denominated them ANOMALOUS, or IRREGULAR, as deviating from the common course, or as in the eruption putting on the appearance of the small-pox—both which we shall describe before we proceed to the cure.

The anomalous differ from the mild fort, because the eruption happens not on the fourth day, but sometimes before, and sometimes after—the symptoms preceding, as well as accompanying the eruption, are more severe—the eruption does not begin so much on the face as on the shoulders and trunk of the body—and because it is attended by more dangerous consequences.

Besides the symptoms which are common in severe severs, there are some which are more peculiar to eruptive ones of this sort; for here the pulse is small and frequent—respiration is short and quick—there is an oppression of the hypochondres--(33.38.)
--the urine pale—a great drowsiness—twitching of the tendons—spass—delirium, with redness and watery appearance of the eyes—load on the eye-lids—and pricking pain in the skin---a foreness of the throat comes on, with a shrill hoarseness, and violent cough, in which children appear almost sufficated, vomit up their food, and grow black in the face---when, after so severe a struggle, the eruption appears, the sever in part deposits its malignity, the disease is at its height; and the sever persists in the same manner to the drying of the spots, which yet, according to Sydenham, did not seem to put on that branny appearance as before described.

The event of this fever is often dreadful and deadly; for, on the eruption receding, the fever and difficulty of breathing are augmented---a peripheumony and diarrhea, occasioned by the striking in of meazly particles, comes on; which last is not without danger, as happens often in the milder fort, because bere it is acrid, dysenteric, and excruciating---sometimes a cough, difficulty of breathing, and hectic fever succeed---at other times, a general dropsy, but oftener obstinate inslammatory affections of the eyes.

The OTHER is faid to be common at PARIS, wherein the eruption is different from that of the common regular meazles; for they are more prominent, suppurate perceptibly like the small-pox, and occasion the face to swell considerably; but then they are attended with the cough, watery eye, and other affections,

arifing from defluxions, which chiefly diftinguish them from the fmall-pox.

CAUSES, whether inducing or proximate, are fimilar to those of the small-pox, (269.) the peculiar particles only creative of

the disease being altered.

CHARACTERISTIC SIGNS. An infectious inflammatory fever for the most part, with which are associated, a defluxion of a thin watery humour from the eyes, tick ling in the nose, sneezing, dry cough, more or less violent---on the fourth day, sometimes sooner, sometimes later though rarely, small spots running together, perceptible to the touch on the face, but broader on the body not perceptibly elevated above the skin, break forth, which in three days after are converted into branny scales in part, and totally disappear upon the ninth day.

CURE. In fo mild a manner will the measles sometimes affect patients, that little is necessary to be done, except abstinence from all animal food, or heating applications; and drinking freely of thin watery acescent liquids, such as common sig drink, made agreeably acid with lemon-juice, apple water, or some such

like fluids.

But should the febrile symptoms run high, we must proceed as directed in the small-pox, (26.)—but great attention must be paid to the affection of the lungs—oily emulsions and linctures, (No. 81 to 83.) may therefore be prescribed occasionally, in conjunction with the other remedies, calculated to keep the febrile affections within proper limits.

Should oily medicines disagree with the stomach, as is sometimes the case, we must have recourse to the class of demulcents, (187.) (No. 84.) using the pectoral decoction, or that of linseed

as common drink.

After the eruption is completed, flight opiates are serviceable—but as nature generally performs her criss either by sweats, looseness, or urine, we must observe what way she directs her efforts, and proceed as we have before directed in cures of this kind,

where they occur in fevers not eruptive.

As foon as the redness of the skin goes off, and the spots begin to die away, gentle purgatives must be administered, at proper intervals, and the patient return to his usual mode of life gradually, (209.)—care also should be taken, that patients expose not themselves too early to the cold air, for these are apt to bring on a very disagreeable cough, asthma, and consumption, from affections of the lungs, or of some other parts.

Some perplexing fymptoms, notwithstanding all our attention, will now and then present themselves, which ask for our utmost

exertions.

Should a delirium come on the fourth day, wherein the pulse is small, it is an unsavourable omen; still by the application of leeches to the temples, it may be mitigated or subdued.

It is also a bad sign if the fever should increase and become violent, accompanied with intense thirst, about the termination of the disease—and should there appear great danger of suffocation, as will sometimes happen from too great an afflux of serous humours on the lungs on the ninth day, we must sly to bleeding, according to the strength of the patient, and apply blisters, to prevent an inflammation coming on from that cause—which, if it cannot be done, suffocation may be the immediate consequence—or, escaping that abscess will probably succeed, a hectic sever and consumption.

A diarrhaa, or dysentery, is apt to come after vomitings of green materials; and continue, though the meazles have finished

their course-these complaints yield only to bleeding.

The meazles which put on the appearance of the small-pox, re-

quire the same mode of treatment as the mild fort.

But in cases of the anamolous species, we must be directed by the nature of the fever, and proceed in our modes of cure, as pointed out in our treatment of the different kinds of the small-

pox.

A moderate loofeness, with a softness and gentle moisture of the skin, alleviate all the sebrile symptoms—but the slower the eruption, so much greater will be the danger—of which also we may have strong suspicion if they make their appearance on the second, or the firth and fixth day from the attack—if they should retrocede, and be associated with delirium, or become livid, the worst is to be dreaded—too high a degree of redness or paleness of the pustules, great prostration of strength, vomiting, great restlessiness, difficulty of swallowing; or other spots, purple-coloured, like slea-bires, are also dangerous appearances—the contrary of all which will flatter us with most pleasing expectations.

Few people have thought the meazles to be a difease of sufficient consequence, to avail themselves of those assistances which, as in the small-pox, might be derived from inoculation in this complaint. As for my own part, practically I cannot say any thing on the subject; but if we may believe the authority of some who have made the experiment, or be allowed to depend on reasoning from analogy, our labours might be happily rewarded—for it is afferted, and appears probable, that from inoculation from infected blood, on the fixth day a slight sever manifests inself most commonly, though it is very moderate, unattended

tended with loss of sleep and inslammatory symptoms; and it is neither succeeded by a hestic fever, cough, nor inslamed eyes; so that we find we should be freed from a train of the most dangerous symptoms, and consequently relieved, in many cases, from the most distressing apprehensions.

§ 3. WATER-Pox.

This obviously takes its name from the fluid with which the

pultules are filled.

DESCRIPTION. This is a difease which attacks children about two or three years old, without any remarkable sebrile symptom or indisposition; it chiefly appears on the face, in small red pustules sull of a clear or whitish watery sluid, about the size of a lentile; some of which dry off in two days, whilst others increase; and all fall off in a dry state within the space of sour, generally leaving no pits in the skin, as they are commonly attended with no inconvenience.

There is another variety which frequently affects infants 2 week old, and push forth similar watery pustules, about the navel, arm-pits, and singers, which grow dry within three or four

lays, and fall off in a fcab.

The cure left totally to nature is always fufficient; and nothing more necessary, than, if it is cold weather, keeping in bed, iving upon gruels, weak broths, and warm liquids.

§ 4. CHICKEN, OR SWINE-POX.

Having had in the course of practice so little opportunity of tending the complaint throughout, and when called, there being so little to be done, I confess it scarce ever awakened my observation, as nature, after the stomach and bowels were cleared, such attempts appeared necessary, always performed the cure, am happy to have it in my power to supply my readers with account drawn by the pen of so accurate an observer as Dr. IEBERDEN, who says, in enumerating the

SYMPTOMS, that the pocks in many break out without my previous figns or illness; in others they are preceded by a light degree of chillness, lassitude, cough, broken sleep, wandering pains, loss of appetite, and severish for three days—the pusiles in most of them are the common size of small-pox; but

me are less-they are never confluent or numerous.

On the first day of the eruption they are reddish—on the seand there is at the top of most of the pustules a very small adder, about the fize of a millet-seed; this is sometimes sulf

of a watery and colourless liquor, sometimes it is yellowish, contained between the cuticle and skin-on the second, or at the fartheft, on the third day from the beginning of the eruption, as many of these pocks as are not ruptured seem arrived at their full maturity, and those which are fullest of that yellow liquer very much refemble what the genuine small-pox are on the

fifth day.

A thin fcab is formed at the top of the puffule from the cuticle being burft, on the first or second day, which contains this thin fluid, by accident, or, perhaps, from rubbing to allay the itching; the swelling of the other parts abates without its being ever turned into pus-those which escape being burst, have the little liquor turn yellow and thick, and dries into a fcab-on the fifth day of the eruption they are almost all dried and covered with a crust.

The patients suffer little, except some languor of spirits, strength,

and appetite.

This disease wants no remedies.

It is diftinguishable from the small-pox by the appearance on the second or third day, from the eruption full of serum upon the top of the pock.

From the crust also, which covers the pock upon the fifth day at which time the small-pox is not at the height of its suppuration

But of this disorder there appears a more malignant fort.

For three or four days all the symptoms which precede the eruption run much higher-on the fourth or fifth day the erup. tion appears, with very little abatement of the fever-the pains. likewise, of the limbs and back continue-to which are joine pains of the gums-the pocks are redder than the common chick enpox, spread wider, and hardly rise so high, at least not in pro portion to their fize-instead of one little head, or vecfile of ferous matter, there have been from four to twelve-they go o just like the chicken-pox, and are distinguishable from the small pox by the fame marks.

Besides, the continuance of the pains and sever after the erup tion, and the degree of both thefe, though there be not above

twenty pocks, are not observable in the small-pox.

From the fimilarity of the chicken, or fwine, and fmall-pos we may be able to account for the tales we have had of peop being affected with the small-pox twice, or having them after being inoculated, and fucceeding-for fome may have been in culated from the chicken, instead of the small-pox-and this one of the strongest reasons that has induced me to insert this a count, that the error may be avoided—as very little is necessar in this case to be done by medicine more than what has been t

fore recited—taking care, that if the febrile fymptoms run high, to treat it in the fame manner as the small-pox under similar circumstances.

It is also worthy of observation, that those who have had the fmall-pox may have the chicken pox; but those who have had the chicken-pox cannot be infected again by it; though, to such as never had the distemper, it is as infectious as the small-pox.

5. SCARLET FEVER.

This takes its name from the scarlet coloured efflorescence upon the skin.

This fever is inflammatory, and attended with different kinds of eruptions; whence it has been divided into two species---one called SIMPLE SCARLET FEVER---the other, SCARLET NETTLE RASH FEVER, from its eruptions being similar in appearance to

those marks left by the stinging of nettles.

DESCRIPTION. At the commencement the fymptoms attend which we find in continued fevers, among which there is no great degree of fickness; but on the fourth day the face swells, the eruption manifests itself externally, which are red, more copious, broader, and of a much more florid colour, but not at the same time so uniform as those which attend the meazles; but they arise without any cough or watery eye, which distinguishes them from the meazles; they appear and recede two or three times during the disease; besides, the redness shews itself to be uniform, as if the skin was suffused with red wine, not breaking in clusters of pushules upon the breast as the meazles do---in three or four days it entirely ceases --- the scars-skin soon after peels off, and there continues on the surface of the body sine bran-like scales, which are successively supplied for two or three times.

Sometimes eruptions break out on the face and rest of the body like the stinging of nettles, with much itching, which are elevated above the skin, soon increase, of a pale rose colour; sometimes with protuberances almost erysipelatous, and roughness like tetters---sometimes, on the sever remitting, they disappear; but about the evening shew themselves, with sever, and a troublesome hot itching---and, in three or sour days, like the sormer, entirely cease, when extremely small scales separate from the

fkin.

CAUSES. The fame may be advanced here as in the mea-

zles. (283.)

CHARACTERISTIC SIGNS. This is an infectious inflammatory or remittent fever, of short duration, with a swelling of the face on the fourth day, attended with a storid redness all over the skin, with broad spots, running at last together, not elevated above the fkin; or with fpots like the flinging of nettles, which in three, four, or five days disappear, occasioning the scarf skin to peel off, and covering the furface of the body with fine bran-

ny icales.

This is of the most simple nature-abstinence from CURE. animal food, keeping out of the cold air, free use of watery liquids, thin gruels, and moderate warmth whilst in bed; but should the symptoms run very high, and the pulse be very quick, full, and ffrong, bleeding may be necessary, once, perhaps, and the use of saline mixture, (No. 1.) or small doses of antimonials, (180.) or nitrous powders, (No. 2.) keeping the body gently open, by the use of the mildest aperients, if cottive, (171, 172) (No. 3. 22 to 24.) and, after the whole is over, and the fcarfskin begins to peel off, two or three doles of gentle physic should be given. (172.) (No. 19 to 22.)

But fometimes convultions, or great drowlinels may come on in the beginning, particularly with infants, a large blifter may be applied between the shoulders, and a quieting draught, similar to No. 4, given every night, agreeable to the age and conftitution of the patient-uling, for common drink, milk and water, balm tea, in which may be dissolved some gum arabic, and small

portions of nitre.

Doubts have arisen about the existence of this sever, Dr. Cul-LEN having never feen it in its fimple state-however, it certainly does exist, and as described by SYDENHAM, of which repeated experience has convinced me; nay, indeed, I have known it feize feveral children in the fame family, and most generally at the end of fummer.

There is another species arranged here by some authors, sliled the MALIGNANT SCARLET FEVER-but of that we shall take the opportunity of speaking under the head of Sore Throat, as that is one of its peculiar and distinguishing symptoms, and may

probably be derived from that fource.

6. MILIARY FEVER.

This receives its name from being attended with eruptions in fize and appearance like millet feed, which are fornetimes red, at others white-the first filled with a coloured ferum; the last with a transparent fluid, called lymph, accompanied with scarce any redness at all.

Though the existence of this sever has been doubted by many, flill, it is generally now allowed, that there is a fever of this peculiar kind, originating from specific infectious particles getting into into the blood, and producing its effects upon the machine-yet it may, and often does arise from the injudicious management of other fevers, by treating them with too heating a regimen-hence it is confidered also symptomatic, and often joined with the smallpox, meazles, and other fevers.

Like some other of the eruptive class, this is simple and com-

plicated.

DESCRIPTION. At the commencement there is a chillness fucceeded by no extraordinary heat—the fever is mild, attended by an uneafy and copious fweating—there is no general pain, but the head appears flightly affected-no thirft-the appetite continues-the pulse depressed, and rather hard-and the urine appears healthful.

The patient foon after, on the feeond day, begins to be fearful and apprehensive, constantly fighing, from a sense of weight and tightness at the pit of the stomach—has uneasy dreams—dejection of spirits-the head confused-his sweats perpetually smell fourthere are a variety of fudden and involuntary motions, and conflant reftleffness-the pulse is /maller, and increased in quickness +-- and there is a certain fensation of tingling numbness in the

fingers-and the urine pale and limpid.

On the third or fourth day, feldom later, red or white eruptions break out on the neck, breaft, and back, feldom on the face. preceded by pricking pains, fometimes itching-at this period chillness and heat succeed each other repeatedly, and the sweating becomes profuse-from thence, for about the space of thirty hours, eruptions continue to come out, which are filled with a thin ferous fluid, having round their base an inflammatory appearance. The fymptoms now begin to be alleviated - the fweating continues, though not fo profufely—the mind begins to be less oppressed --- the urine puts on a higher colour --- the pulse becomes more foft and regular --- and about the feventh day the puftules for the most part grow dry, the scarf-skin peeling off in scales.

This is a pretty accurate description of the mild species of this fever, in which we may expect the eruptions will very foon make their appearance, when there are an uncommon dejection of spirits, watchings, confusion of the head, much oppression on the breaft, with a weak quick pulse; for these are considered as the certain fymptoms of their near approach.

CAUSES. Both the inducing and immediate are fimilar to what we have delivered when speaking of the meazles. (283.)

CHARACTERISTIC SIGNS. A mixed fever, attended with anxiety --- dejection of spirits --- frequent involuntary fighing --- ftrong fmelling fweats --- and pricking of the fkin-- fmall diffinct 0 0

ipots,

fpots, for the most part of a red colour, breaking out most frequently on the third or fourth day on the neck, breast, and back, seldom on the face, whose tops resemble, after one or two days, very minute pushules, which continue only for a short space of time.

CURE. The indications of cure are the same as in other erup-

Now this fever must in this place be considered of a mixed nature, (240.) verging rather more to the nervous than inflammatory class—however, if they attack those of strong, robust, full habits, and there should be a great degree of vascular action, bleeding may, perhaps, be necessary, but that rarely—we should rather proceed as we have directed when speaking of the simple continued sever, to the use of saline mixtures, with small doses of antimonials, (181.) (No. 6 to 9.) from whence, if the stomach should be foul, a vomiting will ensue; this will abate the sickness, take off the oppression, produce a gentle perspiration, determine the morbid matter to the skin, moderate the sebrile symptoms, and occasion, though not a less copious, a more expeditious eruption—and before that, cooling purgatives are beneficial, though not afterwards. (171, 172.) (No. 3. 22 to 24.)

Bleeding, it must be observed, is only admissible in the first stage of this disease—afterwards it is so far from being of any use, that convulsions and death itself are often the fatal conse-

quences.

Cooling acids may be also allowed in the beginning; but when the eruption has appeared they are prejudicial—diluting, emollient, and acescent liquids may be used—and from somenting the seet and legs with tepid somentations, great advantages have been derived.

But should the constitution be different from what we have specified, that is, rather debilitated than languid, and the nervous system appear to be in too inactive a state, we must apply to such things as are of more cordial nature, to support and invigorate the constitution; but out of them we must select those of the milder species; for, by stimulating the habit too violently, we should prevent the separation and expulsion of the morbid matter, and be instrumental in occasioning it to fall upon some of the nobler parts internally.

Hence, then, such cordial volatile medicines as we have defcribed in the nervous fever, or some things similar, should be administered—and wine and water, or white wine whey may be

allowed to be drank occasionally.

Blisters should also be applied; and as soon as one has ceased to discharge, another must be laid on, because it is observable that the evacuation produced by them, as well as keeping up the stimulus, affords great relief; for, on the evacuation ceasing, all things wear a more favourable aspect, which are always altered for the better, on the reproduction of the discharge.

But sometimes, instead of the convulsive symptoms being mitigated after the eruption, they increase, attended with such a train of symptoms as are indicative of greater degree of dan-

ger.

For the febrile affections grow more violent, increasing about mid-day and at night—the sleep is disturbed with dreadful dreams—the sweating decreases—the skin is hot and instance—the head is affected with pain, producing the sensation of inward distension—the face appears fuller—the tongue is dry and white—the pulse small and quick—and the urine copious, thin, and wate—ty.

On the third day of the eruption there appears a great augmentation of violence throughout—the heat is burning—the puftules fublide—the fweat ceases—the skin becomes rough—the tendons start—the patients are extremely restless, froward, and loquacious—they grow delirious, and are convulsed—they become thirsty—the pulse is hard and quick—and the urine copi-

ous, and like water.

The belly, which before was costive, is now the reverse, evacuating sectid bilious stools—should any sweat return, this violence on the pustules breaking out again is mitigated—and on the succeeding day the eruptions become more copious and larger, the former beginning now to dry—notwithstanding which, about the third day the second crop creates new and similar distress, though in a milder degree than the former—a third and fourth crop will succeed, until the last stage of declension, similar to what occurs in the milder species.—Still in this state of the disease there is a bilious sected looteness, with rolling of wind in the bowels, which continues—the urine sometimes feels hot, and appears like milk whey without any sediment.

Patients afflicted with this fever feldom recover before the fif-

teenth or twenty-first day.

This fever has been by fome confidered of the inflammatory class; by others it has been called the acute malignant—but it appears to be truly of the mixed kind, and might properly be

looked upon as a malignant miliary mixed fever.

Sometimes the progress of this fever is slower, and longer continued, the pustules not striking out with a proper redness, but sinking down in the skin or retroceding inwardly, liable to return at some other time, and occasioning a slow recovery; and some-

This fever is apt to feize the delicate and relaxed, who have a thin and acrimonious state of fluids.

In addition to the puffular appearance above specified, the tendons start continually—a delirium and convulsions come on—the head-ach, though considerable, is not very acute—the tongue trembles—the velocity of the pulse is not so great in the eruptive stage; but the freedom and quickness are irregular; sometimes it almost intermits—the urine is various, sometimes thin or higher coloured, but oftener turbid and small in quantity—but a viscid sweat breaking out which is setid, having for its associate some larger vesicular eruptions, and pustules of size more considerable, putting on an appearance almost similar to the small, pox, alleviate these symptoms

After this stage, now and then the patients become extremely drowly, and have continual twitchings of the tendons, and convulsive eructations, then become stupid, forgerful, and fall into a state of lethargy; to which succeed convulsions, which

are followed flowly by inoring and death.

This fever, should the patient recover, is apt to return about the same time in the succeeding year, and often seizes women during their lying-in—whence there is a suppression both of their milk and those discharges after child-birth, called lochia.

The mildest fort of the miliary fever generally terminates in feven, the malignant mixed in fourteen, and this in about twen-

ty one days.

There can be little doubt of the nature of this fever, if we pay attention to the fymptoms, for they befpeak it truly nervous—hence, for the cure, we must refer to what we have faid on the nervous fever, (216.) making, perhaps, a freer use of blisters, and observing a quicker succession, for the reasons advanced.

(290.)

Sometimes, added to the miliary eruptions, such a train of symptoms will attend, as clearly to shew its disposition to be of the putrid kind; little deviating from what we have recited when speaking of putrid sever, (221, &c.) and consequently will require similar applications—but still, though much cannot be expected from blisters in symptoms simply putrescent; yet such is the alleviation they bring in miliary eruption, that to neglect them would be an error of no trisling consequence—and, if to these we add the use of bark, mineral acids, and wine, little more can be expected to be done in this sever, as these are the principal materials from whence we can expect any considerable success.

Should

Should a loofeness come on under any of the circumstances of this fever, we must proceed in the same manner as we have before directed, taking care not to be too busy in putting a total stop to it by the use of astringents; for if that happens, we may expect a great increase of sebrile affections, which is invariably the case; we should rather attempt to solicit a flow of humours to the skin, by small doses of ipecacuanha, (181.) (No. 57.) and support the strength of the patient by wine, and other generous antiputrescent cordials.

Those signs which portend a favourable conclusion are,

If convulsions begin with, or precede the eruption, and, upon ceasing, the pulse becomes fost and full, the pustules filled with ferum grow large—if they are of the red kind, and manifest themselves with a gentle perspiration, free and easy respiration, and the pulse as above specified, the sever having remissions.

But if the fweat should be violent and premature, particularly if the pulse at the same time should be small, they indicate mischief.

A tingling stupor or numbues in many places, shews that the morbid matter is copious; but if it is slight, attended with watery urine, sweats, and a small pulse, it not only indicates the same, but shews the virus not easily determined to the skin; hence dangerous.

Should there be great dejection of spirits, the patient become very fearful, lose all hope, rise up terrisied, these are bad omens—nor is it a promising appearance if the skin does not swell from the eruption, nor be affected from the application of blitters or

cupping-glaffes.

If the bead-ach goes off before the fourth day, in those of full habits particularly, it is an unfavourable fign; and a fmall pulse, growing more so after the eruption, with tension, and quickuess increasing, denotes convulsions, and dissolution, or extreme danger.

If the urine is constantly watery, or changes to that from a reddish colour; this affords no good sign; but it beipeaks a long

continuation of the disease if it is like milk-whey.

Drops of blood from the nofe at any time befpeak great danger; and, when drawn, if it should be of a scarlet colour continually without serum, it is a bad sign.

If, at the conclusion of the disease, the fearf-skin peels not off at all, or only sparingly, the convulsive symptoms still continuing,

we may expect a relapfe.

WITH REGARD TO THE ERUPTION, the red are more favourable than the white; and the fooner they make their appearance, fo much the worse; for those which appear upon the third or fourth day often prove mortal on the seventh or eighth; they are less dangerous if they break out on the fixth; the later the safer; for the sooner they appear, the disease proportionably of longer continuance, and more apt to return.

After the eruption all oppressive convulsive symptoms are omin-

ous, and those which follow the subfiding detructive.

If the puftules are finall, and very numerous, they beforek danger—nor is it a favourable fort which do not prick, but itch when they are pushing out of the skin—but if they recede, and afterwards the patient vomits, fees badly, has a rattling noise in swallowing, hiccoughs, and stammers in talking, these import extreme danger.

By how much more copious and prominent are the puffules, by so much sooner will death make its approach, if they subside —and those which sometimes subside, and sometimes appear, in-

dicate a long continuance of the difeafe.

7. ERYSIPELAS, OF SEROUS INFLAMMATORY FEVER, commonly called SAINT ANTHONY'S FIRE.

This is considered as an inflammation of the skin, and subjacent sat, attended with an inflammatory sever, originating from an acrimonious humour and inflamed state of the thinner part of the blood, from which nature endeavours to free herself by expelling the morbid portion from the habit, and depositing it on some external part, chiefly the skin, in broad red spots, which creep from place to place—hence its name, from the Greek words erro, to draw, and pelas, into the vicinity.

DESCRIPTION. It generally commences with chillness and shivering, which in a day or two are succeeded by a violent sudden redness, and pain, attacking some part or other, chiefly the face; and has for its associates an acrid heat, rosy-coloured essociates, with great tightness of the skin, slightly swelled, which is broad and distused, not circumscribed—the sebule assections increase, with heat, anxiety, thirst, often also a white tongue and

flrong breath.

But it is often attended with greater degrees of violence—then it begins with great shiverings, succeeded by a burning heat, acute head-ach, retching and vomiting, till the erysipelas appears, which is sometimes deferred to the second or third day; when the febrile symptoms are alleviated, and the sickness ceases, tho', not unfrequently, they continue in a slighter degree to the height —-fometimes, when the disease runs high, the sever continues,

the brain is oppressed, delirium comes on, and matters wear an

unpromising aspect. svol

Upon the tumid part vesicles arise, and run along the forehead hairy scalp, eye-lids, neck, forming a circle round them, which, if injudiciously treated, become gangrenous, and creates delivium ---fometimes the humour filling the pustules, and issuing from thence, instead of being thin and serous, is thick and gluey, and forms a thick scurf or crust, continuing fixed before they fall off, for many days.

The disease frequently terminates in seven days; but sometimes it will proceed in a similar manner for eight, ten, or twelve days, and at last go off by a copious sweat, of which restlessness, with concomitant shivering, and some anxiety, though not much, for a small space of time, will be sometimes the forerunners; and from thence may the critical effort be prognosticated. During the progress of this complaint, the whole skin and inside of the

mouth is very dry.

CAUSES. The remote or inducing are said to be, violent mental affection, particularly anger and tear--a sudden cooling of the body, heated before by the strong power of the sun--drinking of, or bathing in, too cold water--a suppression of the natural or artificial evacuations---moist and rainy seasons---and, in sine, whatever occasions the obstruction of perspiration.

The proximate or immediate, acrimonious and heating particles derived from humours that are contaminated and retained, which

ought to be thrown out of the habit.

CHARACTERISTIC SIGNS. An inflammatory fever, for the most part, of a few days continuance, with a superficial, solitary, diffusive swelling, of a red rose colour, going off upon prefsure, and returning; of an uniform smoothness, unless made rough by eruptions; and is attended with an acrid burning, or itching heat.

CURE. As this difease, though neither insectious nor contagious, evidently arises from some acrid humours ejected out of the mass of sluids, and collected in the cuticular vessels, through which it ought to escape out of the habit, we must be very cautious not to lower the sever too much by excessive evacuations; nor hinder the exit, or cause the retrocession when discharged upon the skin by the injudicious administration of cold or assringent applications; for the indications of cure are, so to regulate the moving powers, as to enable them to throw the offensive matter out of the constitution, and prevent any retrocession on the internal and vital parts.

Hence, therefore, must we proceed, as in other cases, consistently with the strength of the habit. If it attacks those of strong full constitutions, we bleed in proportion to the strength, and give the cooling cathartics, such as purge off the serous humours in the most certain and easiest mode, as vitriolated natron, acetated tartar, Polychrest salt, Epsom salt, manna, tamarinds, crystals of tartar, jalap, &c. (171, 172.) (No. 1. 22 to 24.) and, on the intermediate days, we should give at intervals antimonials joined with nitre, acetated tartar, or the saline mixture; to which gentle aperients may be added, if necessary.

Emetics in this case have been found efficacious—mustard poultices applied to the seet, and bathing the legs and seet in warm water are very beneficial, where the head and sace are assected—and, under this circumstance, bleeding and purging may be repeated, till an alleviation of the symptoms are produced.

In all our endeavous we should attempt to promote gentle e-

vacuation by the fkin with cooling diaphoretics.

There have been different opinions with respect to local applications to the part affected; some advise mild and softening applications to the part affected, as fresh cream, the ointment of elder leaves, tepid watery somentations, or the use of the water of acetated litharge—however, the sine powder of senugreek, or wheat slour, sprinkled upon the part, and lying in bed—or, if a sluid begins to coze out of the vesicles, chalk or starch may be sprinkled on a soft cloth, and thus applied; for all repellents, whether of an aqueous or oily nature, are burtful.

Should the swelling be suddenly depressed, from a retrocession of the offensive matter, attended with internal oppression and anxiety, and at the same time the pulse becomes weak and sinks, we must immediately apply blisters, and have recourse to vinous and other cordials; wine may be exhibited freely, volatile and other stimulants, which have more permanent action, such as the

nature of the circumflances require.

Sometimes this disease attacks the trunk, cheft, shoulder-blades, or sides, and frequently makes its appearance lower, encurcing the middle of the body, like a belt—hence called by the Greeks zoster and zon A, a belt; and by the English SHINGLES, from the Latin word cingulum, a girdle.

In this complaint little yellowish pimples, but more frequently of a livid hue, arise which are wont to corrode, like a tetter,

which species they resemble.

The fever which is the affociate of this eruption is only flight; but, fould the pumples be pushed back, symptoms of greater con-

fequence present themselves.

There have been inflances where the eryfipelas has begun with fhivering, heat, delirium, violent pain of the back, head, and other parts of the body, where there was no inflammation; but upon upon the third or fourth day, the hot burning humour was deposited in the glands under the arms, or in the groin, and there formed abscesses; or descended into the seet, and brought on mortification; and from a retrocession of the morbid matter, life was

in the most extreme danger.

For if this matter cannot be made to re-appear, the peccant humour is deposited upon the brain or breast, and death is shortly the consequence—if the deposition happens upon the brain, delirium immediately succeeds, the visage is stushed, the eyes sparkle very quick, then follows madness, terminating fatally in lethargy; but should it be upon the lungs, the heat and anxiety is intolerable, of which no words are adequate to convey a perfect idea.

Notwithstanding these appearances, our modes of cure vary not from that which we have before described.

Though, in general, the eryfipelas very feldom comes to suppuration, still, when that is the case, it does not maturate kindly, and frequently forms disagreeable and ill-conditioned ulcers.

Sometimes a mortification will threaten, then must we apply fuch things as are calculated to stop its progress, as decoction of bark, lime-water mixed with camphor and spirits of wine, or camphorated spirits of wine, with tincture of myrrh.

In the flighter kinds of eryfipelas there is no great danger; but if a violent inflammation, attended with stupor, drowfiness, or delirium, should seize patients with an acrimonious state of

fluids, much are the confequences to be dreaded.

Should the inflammation recede or be repelled, it brings on delirium, internal inflammations, asthma, convulsions and mortification; or should the tumid part grow livid, we may conclude the latter of these assections at hand. With respect to the pustules, the thicker and whiter the matter, the less will be the degree of danger; but should it be thin and pale, so much more in proportion will it be increased.

The PLAGUE, and that fever called PEMPHIGUS, from the Greek word pemphix, bulla, a bubble or vehicle, or BULLOUS OR VESICULARY FEVER, should be next treated on; but as I have had no experience in the former, I shall proceed to speak on the latter only as far as it has fallen under my observation, as the

difease itself seems not to be perfectly settled by authors.

§ 8. PEMPHICUS, BULLOUS OR VESICULARY FEVER.

This takes its name from the blifters with which it is accom-

panied breaking out on the furface of the body, of the fize of hazle nuts.

In three instances they were attended with a fever of the continued kind, purely instammatory; and in one it appeared to be contagious, attacking the wife of one man labouring under the disease a few days after the eruption, who would not sleep from him during his illness. It was in these cases treated as an instammatory fever, free use being made of the saline diuretics, parti-

cularly the acetated kali.

The other two had scarce any febrile symptoms, but copious eruptions filled with yellow serum, which went off, and returned at
different periods—diuretics in these two cases were used in the
beginning, and, at the conclusion, back was joined along with
them, and cordials, there appearing obvious remissions of the sebrile affections, which were slight, and seemed to point out the
nervous system to be the seat of the disease, from the languor
and lowness with which the complaint was attended, and the
pulse at the same time being weak, small, irregular, and
quick.

SECTION XIII.

INFLAMMATORY DISEASES.

CHAP. I.

ON INFLAMMATION.

IN a former section we have spoken of inflammatory sever, (201.) which we have said depended upon a peculiar state of the vascular system and blood, the moving powers, or part of them, put into too strong motion, and supported in the violence of their action by the peculiarity of that state: here the affections were general, produced not by, or dependent upon, any other disease.

But in this place we are to treat of local affections, having a fever for their affectate; hence it is to be confidered, not as a primary, but as a fecondary difease, produced by, or dependent on, some other; consequently only a sign that some other malady reigns in the habit—the first of these severs is called IDIOPATIC, the second SYMPTOMATIC.

Now, in inflammation there are fome particulars observable, which, on examination, will lead us to the cause, and enable us to lay down certain rules for the cure.

In a part under a state of inflammation there are more than na-

tural beat, rednefs, tenfion, pain, and fwelling.

The FIRST is produced by the blood circulating to the part with more than usual force, and being there collected in too great quantity; and wherever that is the case, there is a proportionate increase of warmth—the SECOND is owing to the blood being pushed into those vessels, which, in an healthful state, are only permitted to carry the serous or thinner sluids strained from the sanguinary mass—the THIRD arises from a too great quantity of sluids crowding into the containing vessels, by which they are distended, and their sibres distracted, which produces the FOURTH, or FAIN—and the FIFTH deduces its origin from the distension, and the sluids being too freely pushed into the cellular membrane; or exuding through the coats of the vessel, by their natural parts being too permeable, from the superabundant quantity of liquids they contain.

Now all these effects may be produced by stimulus of some nature applied to the parts affected, increasing the action of the vessels, which solicits the sluids to these parts too rapidly, and

produces distension.

Hence it appears obvious, that these two causes are adequate to create these effects—one of which acting will occasion only a slight degree of inflammation, of no long continuance—but if they both are conjoined, then arises an inflammatory disease of greater violence and duration; inasmuch as, from these two causes co-operating, the effects produced will be more vehement.

But in the parts which are most solid, or in which the vessels continue their course in a straight direction, should any inslammation arise, there will consequently be greater degree of pain, than if it happens in the softer viscera, or glandular parts; because there is always a higher degree of tension in the vessels—hence in firm membranous parts, the skin, ligaments, tendons, cartilages, and bones, (21, 22, 24.) inslammations are found more acutely painful, whilst in the softer parts before-mentioned, the pain is sometimes slight, and always inserior to that of the other.

But external accidents will, by producing the two causes asfigned, (298.) create local inflammatory symptoms, whilst the vascular system in general shall perceive no disturbance, which will not at all be indicated by the pulse, or other sebrile assections; so that if a fever should arise, as it generally does in all considerable inflammations, it is to be considered as owing its ori-

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gin to this cause, and is a consequence, therefore only esteemed a symptom; for excessive heat, thirst, and restlessness, are concomitants of vascular affection, and generally attend inflammatory diseases, independent of any sever, except what they themselves create; whilst weakness and loss of appetite, essential symptoms attendant on primary or idiopathic (298.) severs of any continuance, are wanting, and seem to belong to affections of the nervous system.

But some inflammations owe their origin to sever, and may be occasioned by peculiar causes; either from the elective power of morbid matter thrown into the habit, that is, a predeliction for fixing on some peculiar part or parts in preference to others, as in the small-pox, meazles, gout, rheumatism, &c. or from local constitutional impersection—hence we find, different parts may become the seat of inflammation from general causes also; for if the resistance of any part is supernaturally increased, and a stimulus should be applied to them from acrid humours circulating in the mass of sluids, and fixing there, an inflammation will be the unavoidable consequence—and these very often terminate satally, should it in severs fix in some of the nobler parts; and to these is often to be attributed in many severs the death of the patient.

If we reflect on the cause of inflammation, we shall find, that every part of the human machine, which is plentifully supplied with blood vessels interwoven in their texture, is subject to this affection—and mostly so are those parts which are liable to be exposed to external injuries; or to stimulating materials, which circulate and are buoyed up in the atmosphere; though some of the very thin membranes, the scarf-skin, hair, and nails, may be

confidered as exceptions.

Hence, according to the consequence of the part affected, will be the disturbance of the constitution, and the degree of danger; and these will manifest themselves according as the use of those parts is most immediately connected with those actions of the constitution on which life is immediately dependent, by which the machine is nourished, and its parts kept in proper order, and from whence it has its power of motion, distinguished by the terms vital, natural, and animal—upon all which, acting in unifor, is constituted the welfare of that machine.

With respect to the termination of inflammation, there are five modes, RESOLUTION, EXUDATION, SUPPURATION, MORTIFICA-

TION, and SCIERHUS.

Inflammation is confidered to terminate in RESOLUTION when, in the first instance, the flow of blood is diverted from the part affected, the violence of vascular action allayed, and strength giv-

en to the coats of the vessels, so that they may be properly supported, and the dissipation of the load of sluids which have been collected be procured; or they may be resorbed into the habit—by EXUDATION, which occurs only in superficial inslammations on the skin, and membranes lining internal cavities or passages, or covering the different viscera, when distension of the arteries, and an enlargement of the pores of their sides takes place, by the rapidity of motion producing more than usual force on the vessels in an inslammatory state, occasioning great increase of heat,

and expansion of the contained fluids.

In this manner frequently ends eryfipelas, by pulling forth little pustules or blitters, and freeing the vessels which are inflamed-fo also in burns and wounds matter exudes, which is termed digestion; and as this comes on and continues, fo are the parts affected alleviated, and totally cured. Nature also makes use of this expedient in catarrhal and other flightly inflammatory complaints of the lungs, as well as in the gonorrhea virulenta, or clap; for all these are superficial inflammations-by ABSCESS, or SUPPURATION, when neither of thefe processes takes place, but the violence of motion continues or increases, and the weakness of the veffels still remains: then the fluids which have been collected in the cellular membrane are either too copious, or become fo thick and viscid, that they cannot be absorbed and received back into the circulating fluids, nor pushed out, and thus evacuated through the pores of the fkin-amongst these another procels takes place, termed FERMENTATION, wherein the veffels, cellular membrane, and mufcular fibres are melted down, and a white thick matter is formed, called pus; but this happens chiefly in more deep feated inflammations in some viscous, fleshy, or glandular parts-by MORTIFICATION, when the force of circulation is fo violent against the fides of the inflamed vessels, that the coats are ruptured; or when the arterial coats are fo very weak, that the blood burfting into the cavities of the cellular membrane there stagnates, and quickly corrupts, forming what is called in medical language GANGRENE, or SPHACELUS; the first confidered by some as mortification in its incipient state, the last when it is perfectly formed; but others, when the skin and cellular membranes are the parts affected, give it the former name; when the muscular, the latter; when the bones, it is called CA-RIES; fo, in fact, they are all truly mortifications, though only of different parts.

When mortification takes place, there is a ceffation in the part of all pain, from the destruction of the living solids; hence the protrusion of blood, which becomes of a darker colour than before, or has a livid appearance; hence its stagnation and corruption, and deprivation of its natural colour—after this, a sponts neous separation of the parts which compose it takes place, the thinner part is driven forwards towards the surface, and elevate the cuticle into blisters.

From what has been faid, we may form a judgment why more tifications are most likely to occur in those whose sluids are in a acrid state, old people, and those of dropsical habit; because the folids are soon broken down, and many slight accidents are sufficient to produce these dangerous, and often fatal effects, which we at first observe with an unsuspicious eye, when they are at tacked by inflammations of some force; for, indeed, in constitutions not labouring under these detects they rarely happen.

The last termination we shall mention is, SCIRRHUS, here considered as a hard indolent tumour only, and chiefly presents itse in the spongy viscera, as the lungs, mesentery, womb, and par

ticularly the glands in various parts of the machine.

And this generally arises from the circulation in the gland generally being too languid—hence are obstructions formed from the fluids inspillating within the small capillary, or hair like tubes, and only producing vascular distension so gradually, that there is no great excess of pain, nor any violent increase of heat so that proper power is wanting to create that process which in duces suppuration, and also force sufficient to break down the vessels, and produce mortification, which in these parts are saifeldom to take place, except from acrimony of the sharpest nature pouring down on the vessels of any particular gland, an being there deposited.

Inflammation then may be confidered only as one cause of feirrhus, which induce these tumours by imperceptible degrees and very flow beginnings, which are attributed to some peculia indescribable desect of the humours, terminating frequently i

cancerous affections.

They are, besides, productive of great mischief from the compression of the neighbouring parts, as palsy, impeded deglutition barrennels, and many other complaints.

From what has been faid on this subject of inflammation, w shall be readily and forcibly struck with the most eligible mode

of termination.

The first is by refolution, the second by exudation, if the mat ter exuded can have a free exit out of the habit; but in those inflammatory affections which make the membrane that lines the cavity of the breast, and abdomen, or belly; or which cover the different viscera contained in them—the objects of their attack and if the matter which from that cause exudes from their surface should remain there, a hestic fever will be the consequence

though

though the original pain ceases, and a fresh concourse of symptoms will then succeed. But suppose neither of these terminations can be brought about, we then wish for ABSCESS, because only the inert solids suffer chiefly, and seldom have any permanent bad effects, if they can only be permitted to clear themselves; for then the parts heal up; nor have the nerves or blood-vessels suffered any material destruction, though the last may have been distended, and suffered greatly from such distension; yet, once freed from the impelling cause, soon recover their tone, sufficiently to perform properly their constitutional action; and as for the inert solids, they are again soon supplied, by the digestive powers of the machine forming fresh materials from nutriment, in order to renew the substance lost, by the application of homogeneous particles poured into the interssices of the celullar membrane.

In all our attempts to cure inflammatory complaints, our first aim is refolution, whether the part affected be external or internal; the former of which is obvious to ocular demonstration; the latter, by heat and pain affecting some inward part, accompanied with general sebrile affections; of which we shall speak more particularly when we come to treat on parts labouring under this complaint; at present we shall shew how we attempt to bring about resolution, when any considerable inflammation calls for our affishance.

If it occurs in habits which are plethoric and strong, the pulse full and quick, and much increase of heat, we pursue the same course as was delivered when treating on inflammatory sever, § 2. Section VIII. attempting to allay the intenseness of motion in the vascular system, and abating the excess of heat, which is the natural concomitant.

But here fometimes the complaint yields not to general bleeding, we then should have recourse to local, by the application of leeches or cupping-glasses near the part assected, which will very often succeed; and as there is too great a flow of shids to the part, we endeavour to lessen that by smart cooling purges, (No. 3. 22 to 24.) giving freely in the intermediate times between the purges, nitrous powder, (No. 2.) mixed with small doses of antimonials, (180.) gentle aperients, (171, 172.) and other cooling saline diuretics, (176.) applying to the parts themselves somentations, (No. 85.) with which let the part affected be somented three or sour times a day, and continued at each time for half an hour, or longer, taking care not to apply it too hot, but only moderately warm.

Afterwards the inflamed part should be covered with a white bread poultice, in which a sufficient quantity of ointment of marsh-

mallows

mallows has been used—some advise a poultice of bread boiled in litharge water, called vegeto-mineral water; others of wine-less thickened with bran; and several prefer that of bean-meal and simple oxymel, softened with oil of roses—and should the tumor and inflammation be by these means dissipated, the poultices should be changed for stupes moistened with the camphorated lotion, (No. 86.) and occasionally applied to the parts.

By these means commonly resolution will take place, the humours collected in the part being dissipated, and the remainder absorbed back into the habit, by the lymphatic system being freed sufficiently, and stimulated to a reproduction of its action

in the part affected.

But, notwithstanding our efforts, if the common symptoms should gradually increase, such as great heat, throbbing in the part affected, suppuration will take place, and an abscess be formed—here, then, our mode of cure must be altered, and we must aim at soliciting the matter externally, and freeing the habit in a proper time, by the application of those things which promote suppuration, thin the external skin, and determine the contained matter towards the surface.

Hence poultices made of mallow leaves, boiled in milk with linfeed, or linfeed itself—boiled lily roots, or onions—the maturating cataplasm—or the gum plaister, will answer the purpose; for these, by clogging the pores of the skin, prevent the distipation of the humours, increase the heat of the contained sluids, promote the process of fermentation, and render the humours more active in dissolving, or melting down the solid parts, as well as soften the integuments, and, by their stimulus, solicit the sluids to push outwards.

From these applications, then, the abscess will soon be in a proper state for opening; which must be performed in the most dependent part, if the swelling is equally soft throughout, and the skin of a similar thinness; if not, where the part is softest, and the sluctuation of the matter most perceptible; and the aperture should be made of safficient width, in proportion to the size of the tumor, that a free egress may be allowed for the mat-

ter.

After this, the healing of the wound in good constitutions is feldom attended with any difficulty—dry lint placed gently in the part, and that covered with the ointment of yellow refin, spread thin upon lint or tow, are the general dressings at first; and from these fresh granulations will appear; and in time fill up the cavity occasioned by the loss of substance; but should the sore appear foul, covered at the bottom with a white or brown appearance, instead of red granulated slesh, we must apply some of those

things-

things considered detergent, or cleaning; as the ointment of gum elemi, of yellow resin, mixed with a proper proportion of red precipitate, or green basilicon; these will cleanse the ulcer; and then dry lint as before, and proper bandages, will in common perform a perfect cure.

But sometimes, instead of a thick well-coloured landable matter, there will be a thin ichorous discharge, occasioned by an acrimonious state of humours, while, at the same time, there will

be febrile hectic fymptoms.

Under these circumstances, in order to produce a laudable suppuration, and take off the hestic assections, in relaxed habits, joined with an acrid state of the sluids, bark is the most essicacious remedy; but where the discharge depends more upon the state of the sluids, in order to correct or evacuate the acrimony, a course of mercurial medicines, as the alternative mercurial pills, two of which may be taken twice a day, with one or two pints of the decoction of the woods, (No. 87, 88.) bid fairest for success.

There is a species of complaint very common belonging to this place, which here calls for our attention, and that is, a

Both, or Bile, though this feldom terminates by resolution, but commonly maturates—it is a hard circumscribed tumour, rising to a point, hot, red, and very painful, which, maturating, may be let out, or less to burst, from whence a small portion of matter only will issue forth, in proportion to the swelling, leaving a slough behind, which is called a core, and must be cast off before the wound can be healed.

In its hard and painful state, we can have no expectations of discussions; our endeavours, therefore, are to be confined to haftening the suppuration, as we have before directed, (304.) or apply bean-meal and honey, which is a savourite remedy with some—when it is opened or burst, we must proceed as before under the same circumstances in abscess (304.)

But these eruptions very often originate from a depraved state of the sluids, which occasion their frequent returns, and are extremely troublesome—here we must have reference to the alterative course before recommended, (305.) which must be persisted in for some time, now and then interposing gentle cooling purgatives.

Thus far we have spoken of those inflammations which lie superficially, and are alleviated by appearing applications; but
sometimes the seat of the complaint will be too internal for them
to become effectual, we then apply over the part stimulants,
which have been found highly efficacious in producing resolution—indeed, where complaints have been slight, applications
of hot sand or salt, stimulating cataplasms, as of mustard, pellitory, horse-radish, Burgundy pitch, volatile liniments rubbed
well upon the part, have been found serviceable auxiliaries; but

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when the fymptoms have been more fevere, bliffers applied over the part contribute the most readily to promote resolution.

These remedies, and the sedatives and emollients we have before spoken of, where the cause has been excess of the vibratory motion of the vessels dependent on some stimulus, and external remedies can be applied, have been thought necessary—or when instammation proceeds from fractures, wounds, contusions, or such like causes, discutient somentations, (No. 85.) are most of all to be relied on—when it depends on local relaxation, or a decrease of vascular resistance, as it sometimes does, particularly in instammations of long standing—bleeding and purging should be cautiously advised, and all emollient poultices and somentations omitted; for these, by their relaxing properties, will add to the cause—a contrary plan must be adopted, calculated to give strength and activity to the vessels, that the offending cause may be repelled.

For local applications, alum, white vitriol, acetated litharge, lapis calaminaris, and turty prepared, mixed with rofe-water, are occasionally used; as are also tincture of roses, and slight decoctions of bark, and eye-waters; gargles made of these well adapted to relieve inflammatory complaints arising from a debilitated and relaxed state of the vessels—and where the general state of the habit is so relaxed, as to demand the use of tonics, or such things as invigorate the system, bark and cold bathing are

highly uteful.

By the modes we have laid down, we shall almost always be able to conquer any common inflammation; or conduct our patient through with the greatest case and satety, if abscess should take place—but there are some niceties to be observed, which we shall

particularize.

Fomentations should never be pushed too far; for, after taking off the violence of vascular motion, if continued, they induce a state of relaxation in the fibres, from which succeed debility and obstinate tumours—instead, therefore, in persevering in their use, when excess of vibratory motion is subdued totally, and in many cases when it is allayed, corroborants then become necessar

ry, (No. 86.) or fomething of a fimilar nature.

With regard to abscesses, we must observe, that they all point, and the contained matter endeavours to make its way to the parts where it finds the least resistance—hence those formed in the lungs rupture internally; those in the viscera of the belly move externally—those which are deep seated, and formed under strong tendinous expansions, run along the spaces between the muscles, and appear at a considerable distance from whence they first originated.

Besides, they do not all originate from inflammation preserving its regular course; they are sometimes critical, the effect of nature freeing the constitution from some morbid matter, by throwing it out of the circulation, and depositing it in some local situation, which is attended with the most happy consequences, admit the vital organs, or the parts of high importance in the habit escape, from its being deposited in them. Abscesses of this kind are generally preceded by some sever; and this depotion of matter is called metastasis, or translation, which occurs chiefly in parts where the vessels labour under some uncommon weakness, from some cause which has left them in that state.

Under this circumstance, as foon as ever the skin is in a proper state of thinness, the matter must be let out by incision, if it can be come at, else would it, by too long continuance, dissolve too much of the solid parts, destroy the texture of the nerves and blood-vessels, produce a caries, or mortification of the bones, by penetrating through the membrane which covers them, and lay the soundation for a hectic sever, from the matter being taken up by the absorbent yessels, and carried into the habit.

In cases of EXUDATION, (300.) where the surface appears only excoriated, not ulcerated, we can give the happiest assistance, when it shews itself externally by internally exhibiting such things as tend to promote resolution; and having recourse externally to

fuch as are calculated to cleanie, heal up, and firengthen.

And when such is the circumstance on the membranes of the breaft, of the belly, or the external furface of the vifcera, as it fometimes is, we are affored, from the appearances on diffection. where there has been no perceptible ulcerations or destruction of the folids, though matter has been found in these cavities; by early advice judiciously given, many might be faved from some of our most fatal complaints, pulmonary, and some other confumptions; for many of these arise not, in the first instance, from ulcerations or little glandular tumors in the lungs, called tubercles, but from matter exuded from membranous furfaces, which acquire a degree of acrimony, and then, by melting down the folids, cause ulcerations: and I have no doubt but by a very early application tofuch modes as we have specified for resolution, these mischiefs might be often prevented-but here the great misfortune is delay; patients, in the infancy of this complaint, by dabs, nollrums, and old family prescriptions, losing the favourable opportunity which ought to be given to the well-informed physician, applying for fuch aid only when fome of the internal parts have fuffered irrecoverable injury.

Though we have before spoken of the erysipelas, or Saint Anthony's sire, which arises from a febrile cause, there is another fort which sometimes succeeds external injury; and in this, if the inflammation runs high, bleeding and purging are highly efficacious; and in the intermediate times, betwixt the administra-

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ting of purgatives, I depend upon faline diuretics, (176.) and even those purgatives which I prefer, are such as most powerfully evacuate the serous humours, such as vitriolated natron, Rochelle salt,

regenerated tartar, jalap, fyrup of buckthorn, &c.

The external applications in these cases should be such as will expel the obstructed sluids through the pores of the skin; hence diluent somentations are recommended, decoction of linseed, and white poppy heads, with elder and chamomile slowers, and a proper proportion of soap liniment, one ounce and a half to two ounces to a quart, whilst there is no break upon the skin—chalk, or fine flour, spread upon the part, and confined with a sine rag—and lotions of the vegeto-mineral water are thought by some highly serviceable, where resolution is the aim.

But when pimples or painful blifters make their appearance, equal parts of lime-water, oil, vinegar, and comphorated spirit of wine, form an efficacious composition to lay on the inslamed part, by means of a rag dipped into, and well loaded with it—or the ointment called unguentum tripharmacum, or that of accetated cerus, have been considered as proper applications.

We must now proceed to speak on mortification, another termination of inflammation, (301.) which generally proceeds in the following manner. At first the swelled part begins at the point to grow yellow, the pain is mitigated, and a dingy colour comes on; the skin is slabby and soft, retaining the impression made by a singer upon it, it loses almost all sensation, and grows livid—a turnid elevation of the part is perceived, which dissusses itself around—there appears postules of a thin yellowish acrimonious liquid, which are black at their basis—then the skin and parts underneath corrupt, become dead, black, losing all sensation, and dissolve into a social stinking sanies—the mortification creeps onwards, and seizes the neighbouring parts—at length shivering, sever, cold sweats, small and weak pulse, and fainting, bespeak the approach of death.

In the beginning, when the fource of this mischief has been external injury, and there is much strength of constitution, indicated by a full, hard, quick pulse, high degrees of heat, pain, and dryness, the cooling method is to be pursued, as if resolution was to be brought about; and though in this we cannot hope to succeed, we are warranted in this mode of procedure, by the extreme violence of the symptoms, with intent to bring on a state of suppuration, by checking the vehemence of the circulation, and preventing the vessels from being suptured—besides, exudation would be favoured from the continuance of relaxing

and emollient fomentations.

But mortifications arise from very different sources, and affect different constitutions—should they happen to patients, therefore,

fore, whose blood is in a thin, acrid, putrescent state, which will be indicated by debility of the pulse, loss of strength, lowness of spirits, fœtid thin acrimonious discharges, and, should blood be taken, by its texture being very weak, we must have recourse to invigorating and cordial remedies; as bark, wine, mineral acids, and fuch like, in order to prevent the access of gangrene, and produce a separation of the part affected; and, in cases of great pain, opiates have been advised with very fortunate effects; indeed, whether the cause is internal or external, the free use of opium is directed, and confidered as the greatest internal cordial known-as an external application, the antiputrescent lotion, (No. 90.) is recommended to be applied frequently, warm, as it is also stimulant and digestive-cataplasms of cummin-seed, and the carrot poultice, are much approved; but if emollients are mixed with antisepties, (192.) they are said to affift in the feparation of the putrid parts, and stopping mortification.

The last termination of inflammation is SCIRRHUS, (302.) or indolent tumor, which arises from obstructions forming in some of the glandular parts, as before described, where either no suppuration takes place, or if it does, it is in no small a degree, that it has not power to melt down the folids sufficiently to remove the induration—or it may be brought on by the too long use of warm somentations, soliciting too free and long continued flux of humours, relaxing the vessels of the parts, hence occasioning

hard fwellings, which are not eafily removed.

Now these swellings which we here consider are totally free from all acrimony of any peculiar nature, and, as the suids are in a sound state, it is often the most eligible practice not to interfere by any applications—because in young subjects they will very often gradually wear away; in older ones continue generally without creating any uneasiness or inconvenience—but should the hardness be so considerable as to require particular attention, warm vapour or steam directed to, and consined to act upon the part affected, is one of the most efficacious applications in this case.

Sometimes these tumors are soft and flabby, then frictions, and well adapted bandages, where they can be applied, are useful; or letting cold water fall from some height upon the part, or

pumping upon it, feems best calculated to fucceed.

Thus far has it been necessary to premise, before we enter on the instammation of the different parts, wherein the treatment of the instammatory symptoms will be nearly similar; but there will be some deviation necessary on account of the parts affected—for the INFLAMMATION OF THE BRAIN will require a different treatment from that of the eye—of the Eye from that of the

the lungs—of the LUNGS from that of the intestines, &c. to which we shall now proceed.

CHAP. II.

INFLAMMATIONS OF THE HEAD AND NECK.

6 1. PHRENITIS, INFLAMMATION OF THE BRAIN.

THIS is fo called from the Greek word phren, mens the mind;

because the brain is supposed to be its feat.

DESCRIPTION. The fymptoms at the onfet are, with refpect to the general affections, fimilar to what occur in the beginning of the inflammatory fever, only the head feems to be more violently affected; for in this there is pain and pullation of the head, with a founding noise, a ringing in the ears, and disturbed sleep-the eyes are painful and inslamed, almost always fhunning the light—the countenance is puffed, the hearing acute, and the patient is irritated from the flightest noise—the pulse, for the most part, is weak, sometimes hard, always low and depreffed—the urine looks pale like water—and continued watchings are protracted to the eighth day—the pulfation of the carotid arteries is perceptible-fometimes blood flows from the nofe—there is great debility, anxiety, and frequent fighing—the tongue is fometimes white and moilt, fometimes black and drythe patients are uncommonly irafcible, labouring under a ferocious delirium and convultions.

CAUSES. The remote or inducing, severe drinking of inebriating liquids, particularly ardent spirits—watchings, long exposure to the scorching rays of the sun, particularly if the head is uncovered—violent rage—too deep and long continued thinking—excessive grief—violent love—a suppression of the piles, and those discharges in women after child-birth, called lochia.

The proximate or immediate CAUSES, a true inflammation of the membranes of the brain, or a congestion of blood in the bo-

dy of the brain, or both conjointly.

CHARACTERISTIC SIGNS. An acute febrile affection, attended with pain of the head—reducts of the face and eyes—incapability of bearing the light or found—perpetual watching—a violent delirium, or delirium attended with fome degree of apparent drowfiness.

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This disease terminates between the seventh and sourteenth day, by resolution—hæmorrhage from the nose; in women, by a flow of the menses—looseness, or deposition of a copious sediment in the urine;—but should not some of these occur, suppuration or mortification is the consequence: it often, though, degenerates into other diseases, as mania, i. e. delirium or madness without sever, lethargy, melancholy, or idiotism—when people recover, they will be affected a long time with giddiness, weakness and pain of the eyes, quickness of hearing, and a heaviness of the head.

We should be particularly careful in distinguishing this disease from the delirium, that common attendant in many severs: and this knowledge may be acquired by observing, that in this species the delirium comes on first, and is perceptible and violent before there is any great degree of sever—in other cases it is consequent to sever which has continued for some days before the delirium is manifest; and the degree of phrenzy is correspondent to the degree of sever; but in the true inflammation of the brain the degree of sever is nearly adequate to the delirium, which is equal to what we meet with in real madness, from which the inflammation of the brain is scarcely to be distinguished, but by the snortness of the continuance; as in the space of a sew days it must either inevitably terminate in recovery or death.

This difease is either idiopathic, (299.) or symptomatic, (299.)—the first, wherein the head is primarily affected, rarely appears in temperate climates—but the second very often occurs, and most frequently about the criss of severs; and is generally attended with chillness, tremor of the joints, distension about the pit of the stomach, coldness of the extremities, thin urine discharged too copiously, or too sparingly; and most commonly, if violent, proves mortal, from the constitution being reduced to a

flate of great weakness from the preceding disease.

From the great consequence of which the brain is to the life of man, this becomes a most dangerous disease, from that part being affected—men experience greater degrees of violence in this disease, and recover with more dissiblly than women—the more the patients are, and the more they recede, from their natural slate and disposition, the greater is the danger—bleeding at the nose is a good omen; but if the phrenzy changes into a lethargy, it is bad; and total loss of, or a trembling voice, convultions, hiccorgh, may be looked on as extremely unfavourable symptoms.

CURE. In a case so desperate as this, without we can diminish the violent force of the circulating sluids against the sides of the vessels, remove the obstruction, and take off the congestion, and that soon, from the delicate texture of the brain, it must end

fatally

fatally—our applications, therefore, must not only be powerful in themselves, but most expeditiously administered, with intent to divert the slow of blood from the head, at the same time attempting to allay the violence of vascular action, and strengthem

the veffels of the part affected.

For these purposes, therefore, we should have recourse to bleeding-fome advise in an erect posture, copiously, and from a large orifice, till the patient faints, giving preference to the large vein of the neck, called jugular, or the temporal artery; or, where the menses are obstructed, to the veins of the feet; and this must be repeated according as the ftrength of the patient will permitt -if the pulse, as sometimes happens, will not allow this, particularly after the third day, then capping-glasses or leeches must be applied to the temples, or the internal part of the noftrils muft be fearified, and blood taken away in one of these modes-and immediately after fmart purges of the cooling kind, (171, 172.) must be administered, or glysters—the lower extremities should be bathed in warm water, or the feet and legs wrapped up in warm moift cloths or flannels-the head thould be shaved, and washed with cold vinegar, or cold water poured upon it; nay, fome advise even the application of ice; and after proper evacuations, when there appears a reduction of frength, a bliffer may be applied to the head-large doses of nitre, mixed with a little camphor, may be given every four or five hours, or fixed fal ammoniac, (176.) or CLUTTON's febrifuge spirit, to called, may be mixed freely with the patient's drink, which should be of the diluting and watery kind-mustard poultices may be applied to the foles of the feet; and, in fine, every thing which can folicit the blood from the head, and abate the violent motion of the fluids.

The bedchambers should be large, dark, and cool—every thing should be kept extremely quiet; the posture should be as erect as possible, or, at least, the patient should lie with his head ele-vated.

If matters, by the means here made use of, take not a favourable turn within the first four or seven days, there comes on a drowliness, and propensity to sleep, which soon puts a period to

the unhappy patient's existence.

Sometimes we find it goes off by the efforts of nature producing some evacuation, (311.) which, should they come on before the vessels of the brain suffer much from being over distended, the termination of the disease may be very fortunate—if not till the vessels have been much injured, the senses seldom return perfectly to their original standard—nay, some assirm, it ends in stupidity, and madness, which are rarely curable. § 2. OTITIS, or OTALGIA—from the Greek words, ous, auris, the ear; and algos, dolor, pain;—

INFLAMMATION OF THE EAR.

By this is meant an inflammatory state of the internal parts of the ear, whose membranes, from their being well stored with nerves, are extremely sensible; and from being attached to bones.

feel pain very acutely.

DESCRIPTION. An inflammation of the more internal parts, attended in common with great pain, and that pulfatile, or throbbing head-ach, and some slight feverishness; sometimes when it affects in a more severe degree, the sever is stronger—the head

more painful, accompanied with delirium.

CAUSES, remote and inducing. Any extraneous body infinuating itself into the ear, that has the power of exerting any stimulus—acrid humours falling upon the membranes of the ear —obstructed perspiration—currents of cold air pouring forcibly into the ear, through narrow crevices, or cracks in doors or windows.

The proximate, or immediate, are fimilar to what we have before specified, and which occurs in all inflammation, where the parts are in a state of predisposition, sufficient to feel the effects of those acting causes which are more remote—indeed the proximate and immediate causes of these complaints are so exactly si-

milar, that we shall have no occasion to specify them.

CURE. When the affections are flight, a little warm oil, with a few drops of the tincture of opium, may be dropped into the ear—or a decoction of poppy heads may be injected—these will sometimes take off the complaint when trisling:—but should it be more severe, bleeding and purging may be requisite—applying also cupping glasses, or leeches behind the ears, and blisters—bathing the feet also in warm water—and when the pain is violent, an opiate, No. 4, may be administered at bed-time.

But should the throbbing pain, notwithstanding our efforts, still continue, suppuration will be the consequence; which we must endeavour to promote by warm poultices applied externally; and wait for the bursting of the abscess—which, when it happens, we must endeavour to keep the ulcerated part clean, by injections of warm water in which is dissolved a little soap—or of barley water, to sour ounces of which add—one ounce and a half of honey of roses, and half an ounce of tincture of myrrh—this will assist the discharge of matter, keep the ulcerated parts clean, and expedite their healing.

\$ 3. OPHTHALMIA—from the Greek word ophthalmos, oculus, the eye;—

INFLAMMATION OF THE EYE.

This discase is so very obvious to every common observer, that there seems scarce a necessity for putting down the appearances, in order to distinguish it; however, to preserve the regularity we have adopted in other complaints, we shall give of it a concise view.

DESCRIPTION. This complaint at the beginning is attended with heat, redness, and swelling, or fulness of the eye-and often feels as if a particle of fand, or a fmall fly, had got into it, and there fixed-the eye is painful, tears flow, which appear hot and fealding-the angles of the eye are often filled with a vifeid yellowish matter, particularly after sleeping-the fight is weak, and all light is offensive-in the more severe species, the pain is very acute-the pulse quick and rather hard-the light intolerable-there is a perceptible pulfation of the arteries-and the eyelids, with the circumjacent parts, fwell; but when it is still more fevere, the membrane covering the white of the eye elevates itfelf above the darker coloured part, called cornea, from its horny appearance-and the patients complain of flies flying before them, and feel other unpleasant fensations of this kind, the effect of imagination .- Afterwards fucceed suppurations, spissitude, of the humours-fpots upon, and thickness of the cornea itself.

From this account there appears to arife three material confiderations: First, whether it is flight, affecting only the veffels of the outward membrane of the eye;—SECOND, whether it is very fevere, extending itself to the eyelids, and their edges, called tarfi;—THIRD, whether it is extremely violent, fixing its feat in the internal veffels of the eye itself, and in those of the membrane called retina, at the bottom of the eye, which is considered the seat of vision; in which case it is attended with high degree of fever, intolerable pain, and often delirium. For these distinctions will make some alterations in our modes of cure.

CAUSES. The remote, or inducing, are—external injuries occasioned by blows—dust getting into the eye, or other stimulating bodies—a free admission of cold wind—sweats suddenly suppressed—looking frequently or long at the fire, the sun, or other strong glaring colours—exposure to the cold air of the morning and evening, which succeeds hot and sun-shiny weather—acrid and metalline sumes—couching, or extracting a cataract. It also may proceed from internal causes—such as the suppression of salutary evacuations—humors repelled—drying up of issues—fetons

fetons---fillulas---or ulcers---indigestion---too long watchings---night studies---other diseases of the eyes---small-pox---and mea-zles.

CHARACTERISTIC SIGNS. Redness, and pain in the

eye---with incapability of bearing the light.

CURE. With regard to this we are to take into our account the immediate cause—whether it is an increased irritability in the vessels; or a want of proper resistance in their coats; or they both co-operate together—for, according to the acting cause, so should our applications differ; as what would in one case produce a good effect, would in the other be attended with dangerous, or at least disagreeable effects.

In the slighter degrees of this complaint, the cure is perfectly easy, as little more is requisite than external applications—washing the eyes with warm milk and water, mixed with a little brandy—conferve of roses—roasted apples, and some such reme-

dies.

But in more severe affections, if the habit is full, general bleeding and purgatives are necessary, with a cooling regimen ---to which, if the disorder does not soon give way, not less than three leeches should be applied, as near each other as possible, in the hollow of the temple nearest the eye affected---opening the jugular vein is often serviceable; --- bleeding in the eye itself has by some been strongly recommended; but the operation is apt to irritate, and is only necessary when the insammation is kept up by a speck in the eye, which is fed by one or more blood vessels, then they may be divided.

In obstinate cases, keeping the head shaved is highly proper, and applying blisters about the size of half a crown over the orifices made by the leeches, is useful;—bathing the feet in

warm water should not be neglected.

With respect to the local applications, the chief, and most use-ful, is the tinctura Thebaica of the London Pharmacopæia as an opiate, joined with some stimulant, for without, it will not answer;—at first the anodyne eye-water (No. 91.) may be applied to the eye two or three times a day. In slight cases, this is often sufficient; and, indeed, in the more obstinate, two or three drops of the tincture may be dropt into the eye two or three times a day.—The body should be kept cool by proper diet and medicines, and the eyes free from any thing that can irritate them.

In some cases, though, where the inflammation has been long continued, its duration will be apparently owing to want of proper resistance in the vessels—hence must recourse be had to such medicines as give strength and activity to them; still some cau-

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tion is here ncceffary—they should only be applied when the eye is in the weakest state of inflammation, which generally happens in the morning, after the eye has been kept some time free from any irritating cause.—In these cases the coagulum aluminosum of the old London Dispensatory may be mixed with a common poultice, and applied to the eye affected for three or sour hours in a morning—and in the remainder of the day, tincture of opium—afterwards as the eye gets strength the vitriolic solution, No. 92, may be used.

By this method I have seen inflammations of the eyes of long standing, cured, which had resisted every other mode---the quantity of the vitriol may be gradually increased to 10 or 12

grains.

In all inflammations of the eyes arising from common causes, one of the modes above specified will generally succeed---only we should be careful not to use any of the more stimulant applications, till the inflammation begins to relax of its violence, for if they are used too soon, they will rather increase, than sub--

due the malady.

But sometimes this disease will be occasioned, and supported by some morbid humour in the habit---as that called scrophu-lous---venereal---or some other which we are incapable of discovering.---In the two sormer cases, we must make use of those remedies pointed out in the treatment of those complaints---in the latter, a course of alteratives in which mercury has the greatest share, will be most efficacious. Under these circumstances I have known small doses of calomel, with antimonial powder and rhubarb, or jalap, given twice a day, and washed down with the decostion of the woods, interposing proper purgatives once in a week or ten days, be very successful---and greatly assist the application of external remedies.

In obstinate cases, where blisters have been inessectual---issues, and setons in the neck, have been recommended; --- or having the lobes of the ears pierced, and exciting a discharge by skains of silk being passed through them in the manner of setons.

The gluing of the eyelids together, should be prevented by infinuating a little mild unctuous medicine between them, be-

fore the patient goes to reft.

Notwithstanding what has been said respecting inflammation of the eyes resulting from a relaxation, or attended by that state of the vessels, it is sometimes owing to intenseness of motion--which is discoverable from the great beat,--dryness, and very severe pain,---which are concomitants;---then bathing the eye with warm milk and water, in which poppy heads have been boiled, afterwards applying a poultice of this decoction thickened

thickened with crumbs of bread, inclosed in thin cambrick, will be necessary. But in order to prevent the accession of these complaints in those who are subject to the returns, besides guarding against the remote causes (315.) issues have been recommended---taking away blood about the equinoxes---purging occasionally---a cooling diet---avoiding reading in the night, particularly small print---or, in sine, doing any thing, that can too much fatigue the eyes.

6 4. QUINSY.

An abbreviation of the word from the French fquinancie, fore throat—the Greeks term it, CYNANGHE, from kuon, canis, a dog, and anko, strangulo, strangulate—because patients afflicted with this complaint were supposed, in the difficulty of perspiration, to use their tongues like a dog—and by the Latins ANGINA, from the Greek word anko.

This is an acute affection of the throat, divided into two species---the inflammatory, and malignant---of the first of these some authors form varieties, according to the different parts they affect.

1. TONSILLARY QUINSY.

Because it affects the membrane on the superior parts of the throat, particularly the tonfils, with tumor and redness.

2. TRACHEAL.

In Scotland called CROUP, because it affects the muscles of the trachea, or membrane covering its upper part, the windpipe; in which disease in inspiration the voice is rattling and hoarse, there is a shrill cough, with no apparent tumor, and a little dissipulty of swallowing.

3. PHARYNGEAL.

Because the pharynx, in the lower part particularly of the fauces, is affected with redness, the swallowing is very difficult and painful, though perspiration is sufficiently easy.

4. PAROTODEAL.

In England called MUMPS, in Scotland, BRANKS, because there

there is a confiderable swelling of the parotid and maxillary glands, respiration and deglutition slightly disturbed.

All these are attended with an inflammatory fever, though

the last, or the parotidæal, is of a very mild fort.

The fecond species is called the TONSILLARY MALIGNANT, OR ULCEROUS QUINSY, because it affects the same parts as the inflammatory tonfillary, (see above.) with tumor, redness, and with white or grey coloured sloughs, spreading and covering ulcers, attended with a nervous or putrid sever, and red efflorescences---hence stiled by some the malignant scarlet sever. (288.)

Of all these we shall proceed to treat in the order they are set

down---and, first,

THE TONSILLARY INFLAMMATORY QUINSY, OR COMMON SORE THROAT.

DESCRIPTION. In this the tonfils and superior part of the fauces are affected—in general the inflammation begins in one tonfil, then spreads across the palate, seizes the uvula, and other tonfil.

Though confiderable pain attends the action of swallowing if only one side of the fauces is affected, yet can that action be performed tolerably well; but the pain becomes intolerably severe when both sides are affected, and swallowing is performed with extreme difficulty; indeed, the pain is sometimes so great as, in delicate and irritable habits, to occasion convulsions.

It may, however, appear fingular, that more pain should be felt in swallowing liquids than solids; but this is the fact, because a greater portion of muscular sibres are employed in the

deglutition of the former than the latter.

So long as the inflammation confines itself to the parts above described there is little danger, more particularly if the neck appears puffed up, for this seems to indicate less danger of suffocation, and is therefore considered a favourable omen.

But if the inflammation extends itself to the muscles of the larynx, in that degree as to impede the opening of the glottis, or superior part of the windpipe, the complaint becomes extremely precarious, because then there will be great apprehension of suffication.

Or should the brain or lungs be affected by a translation of the morbid matter, from the one occasioning violent head-ach and strong delirium; and from the other oppression of the chest and dissiculty of breathing. If to what we have here said we add the febrile symptoms which commonly attend inslammation, and the

appear-

apppearances in the throat, (315.) we cannot avoid distinguishing

the complaints.

CAUSES. The remote or inducing are, perspiration obstructed, particularly in the neck—the admission of cold air into the fauces, especially if it rushes rapidly into the mouth, and strikes them forcibly—violent and long continued singing—shouting, or too severe exercise of the part—any aerid stimulating particles, or hard pungent bodies adhering to the parts—drinking too cold water—suppressed or impeded evacuations—or a peculiar state of the air rendering this complaint epidemical.

The proximate or immediate, fimilar to those of other inflamma-

tory complaints.

CHARACTERISTIC SIGNS. Redness, tumor, heat, of the tonfils, rendering deglutition painful, attended with febrile

inflammatory fymptoms.

CURE. The same rules are to be observed as in other inslammations, respecting the general treatment, such as bleeding, purging, cooling, diluting medicines, and regimen. With regard to local application, it is of use to apply stupes of slannel dipped in spirits of sal ammoniac, or hartshorn, mixed with a little oil, and applied to the throat in the slighter cases—in the more severe, blisters; for these solicit the matter from the internal to the external parts.

Gargles also of sage tea and vinegar, or infusions of elder and chamomile slowers, in equal parts of water and vinegar, applying the sleams of this to the throat; they are of infinite use, and give great relief, savouring the exudation and dissipation of the

obstructing fluids.

After the imflammation is abated, gargles more aftringent should be used, made of tincture of roses, or red port, with the vitriolic or muriatic acid, sweetened with honey—also to them may be added a small portion of alum, or weak decoctions of bark, with the acids above-mentioned, or alum; for these will give strength to the fibres, which, from over distension, have been weakened and relaxed—and, for gargling the throat, perhaps, syringes had better be made use of, both on account of ease and certainty in reaching the part affected.

By this mode the cure in common will be completed within the course of sour or sive days; but if within this time the inflammatory symptoms should not become milder, and the inflammation itself subside, then will little doubt remain of suppuration taking place; discoverable by the following SYMPTOMS OF ABSCESS forming: the febrile symptoms continue though in a slighter degree, the pulse grows softer, the florid colour of the inflamed part

abutes,

abates, the pain becomes more bearable, and flight shiverings come

on frequently.

Here we must endeavour to promote suppuration as fast as possible, by applying maturating poultice to the throat externally; and internally, decoction of figs; or infusion of linfeed should be drank very warm, and swallowed gradually; carefully, at the same time, watching for the appearance of abscess, which generally discovers itself in a few days, by a whitish tumor, and fluctuation of a fluid to the touch -- should not this burft of itself in a few days, which, though, is generally the case, it should be opened as early as may be, and detergent gargles of barley-water, honey of rofes, vinegar, and tincture of myrrh, may be had recourse to. (No. 93.)

When the abicefs is perceptible to the fight; and within the reach of external remedies; this method must be purfued; but fometimes it forms itself to low down as not to be within the reach of instruments; we must therefore wait for its bursting; and should, before this happens, the tumor be so large as to prevent fwallowing, the patient must be supported by broth or milk glyfters; and blifters and flimulant poultices should be applied to the throat externally, in order to folicit the morbid matter

outwardly.

The confequences in these cases is very rarely fatal, when there is a suppuration; however alarming may be the appear-

ances, or tedious the process.

But, now and then, this complaint arises from the want of proper resistance in the vessels of those parts, discoverable by the relaxed state of the solids, manifested by weaker degrees of heat and pain, and more flight inflammatory appearances respecting the colour of the parts as they are less red, than in the former.

In these cases copious bleeding is rarely necessary; purgatives are more to be depended upon, and the application of ftimulants and blifters locally and externally --- gargles should be of the pungent kind, made of the infusion of horse-radish, or mustard seed, or some other of the pungent stimulants, (145, 146.) for these attenuate the viscid mucus which clogs the follicles or cells of the tonfils, and other contiguous glandular parts, that crowd the fauces, by stimulating the vessels to an increase of proper action on their stagnating mucus; for these fore throats are considered as pituitous.

In habits like these of the phlegmatic kind, (60.) abscesses seldom arise; but should that be the case, they require the same mode of treatment as above specified; to which must be added tonic and corroborant medicines internally, as well as externally, in order to give tone and firmnels to the vellels after proper de-

tergents,

tergents, and add firength to the conflitution, as bark, fleel, with

a generous and nutritious diet.

The same mode must be pursued in the SECOND and THIRD SPECIES, in their inflammatory state; to which if the disease does not yield, and there is reason to be afraid of suffocation, from the high degree of inflammation of the must less of the larynx, preventing proper respiration, recomfe must be had to bronchotomy, or opening the windpipe, though not without extreme necessity, and then it must be performed by the hands of the most skilful

furgeon, for it is attended with the utmost danger.

But sometimes the inflammation not only attacks the membrane lining the upper part of the trachea, but extends itself down on the interior surface into the lungs, which surface is found, on diffection, to be covered over, and the passage for the air almost filled up with a thick slough, having a fibrous membrane-like appearance, which is concluded to be the viscid remains of mucus thrown off by exudation from the inflamed surfaces—and is discoverable by a peculiar shriliness of the voice, like the crowing of the cock, with a cough, but no sickness, nor at first much dissipated of breathing.

This difease is at certain times epidemic, and seizes chiefly children, and runs to its satal termination so extremely rapid, that little chance is given to any medical applications, from the want of time—immediate vomiting, and blistering the throat, are the whole we can, perhaps, depend upon for any the least prospect of success. This variety of the trackel quinsy is called the

CROUP, and is more frequent in Scotland than elfewhere.

The FOURTH SPECIES, or the PAROTIDEAL QUINSY, or MUMPS, called also MAXILLARY, from its affecting the maxillary as well as the parotid glands, and also the muscles and ligaments which raise up and connect the upper with the lower jaw, from which is necessarily selt severe pain in opening the mouth.

In this the fwelling is generally external, increasing fo much in a few days, particularly in the lower part of the face, and under the chin, as almost to obliterate the features, though the at-

tendant fever is but flight.

Saline purgatives, with nitrous medicines, moderate bleeding, and external itimulants, chiefly volatile liniments, are all that are required, keeping at the fame time the head and face warm, and free from external cold.

But there is a lingular peculiarity now and then attending this complaint; for fometimes on the swelling of the glands subfiding, a similar affection of the testicles of men takes place, and of the breasts in women—however, no alteration in the cure is required;

i to

322 MUMPS.

for it has been observed, that to the same it yielded, nor were the parts, particularly the testes, ever known to suppurate.

Sometimes a hardness will remain in the parotid and maxillary glands; these yield to small doses of calomel, and gentle purging; sometimes the application of the quicksilver ointment hath been necessary.

5. Tonsillary Malignant Ulcerous Sore Throat, (318.) OR MALIGNANT SCARLET FEVER.

This has often raged in England, and appears to be a quinfy, or fore throat, of a more malignant nature, attended with a remittent fever, verging more to the putrescent than inflammatory fort; or running very rapidly from the former into the latter.

This difease oftener attacks, and with a greater degree of violence, infants and young children than adults; girls than boys; the infirm than those in the vigour of health; those of a pale, wan complexion, and relaxed habit, with an acrimonious state of sluids, than the robust and sanguineous; and appears particu-

larly in autumn, preceded by a hot fummer.

DESCRIPTION. In its commencement, it first seizes the patient with chillness, languor, fickness, and extreme oppression at the pit of the Stomach-great dejection of Spirits-very Sudden weakness -great beaviness on the breast-and faintness-these are succeeded by extreme beat, naufea, vomiting, with forenefs of the throatfometimes the affection of the throat makes the first appearance -in general the pulse is frequent, small, and fluttering, though fometimes depretled, and undulating-the tongue meift, especially towards the root—the eyes heavy, reddish, and watery—the countenance frequently full, flushed, and bloated, though now and then pale and tunk-the breathing quick and laborious-the Skin, though extremely hot, not perfectly dry—the urine commonly pale, thin, and crude; in many adults, however, it will be made in small quantities, high coloured, or turbid like whey-the throat fore and inflamed, exhibiting a flining rednefs, of a deeper colour than in common inflammatory fore throats, and having a puffy appearance which covered the tonfils, and spread over the fauces, the tonfils at the same time ulcerated, and in some degree, though not greatly, enlarged-a delirium fometimes comes on in the day-time, the fymptoms appearing flight; yet is there in the night a confiderable increase of violence, and that through the whole course of the disease-the swallowing is difficult, and more to on fwallowing the faliva only, than of any liquid or folt diet.

On the third day, or thereabouts, an efflorescence on the skin generally appears, but without any alleviation of the distressing

fymptoms; indeed, they frequently increase, and, added to them there is often a purging - at this time the patient begins to throw about his arms and legs, lying in a state of great inquietude; or he becomes drowfy-there now comes on great profration of strength-the constitutional powers fail-swallowing grows more difficult-the breathing more laborious-and before the fixth day

the patient expires in a state of suffocation.

CAUSES. The remote and inducing, as in all difeases arising from any specific infection, or contagion, is a predisposition in the habit to receive and feel the effects of the morbid matter, which we conceive to be of a peculiar nature capable of creating the difease, communicated from the air, or bodies before affected, which constitutes the proximate or immediate cause; for frequently the difeafe, either from the breath, or contaminated matter spit up, will attack the attendants, and a whole family-a frong proof that the difease is infectious and contagious.

CHARACTERISTIC SIGNS. (See page 319.) And here it is of the utmost consequence to distinguish this from the simply inflammatory fore throat, which may be done by the loofenels and vomiting-the puffy and dark-coloured rednels attending the fwelling-from the fætid nicers of the throat, covered with a white flough-from the hoarfenels of the voice-the flight delirium coming on fo foon- and from the fudden and great proftration of firength --- because much depends upon the mode of cure first adopted --- for what will be the means of laying a foundation of a cure in the fimple inflammatory, would be the cause of death in the malignant quinfy.

The redness of the tumefied parts, brightness of the eyes, no great degrees of debility and fainting, the flough being white, and the florid appearance of the eruption on the ikin, are favourable omens.

But if the debility faculd be violent; if the ulcers are alh-colouved, black, or livid; if there should be a diarrhora, rigor, weak and fmall pulse; the body put on a cadaverous appearance; the eyes lofe their fplendour; the eruptious disappear. or become livid; and particularly if the note bleeds-the worst must be expected.

CURE. The indications of cure are fimilar to those of putrid fever, (223, &c.) to which we must add, the healing of the

In the most malignant kind, little can be expected from our

endeavours, the progress to dissolution is so vapid.

In the more mild fort, whatever may have been faid by men whose medical characters entitle them to attention, with respect to bleeding, nothing except the most distressing inflammatory fymptoms, which rarely occur but at the commencement, can Ss 2 authorite authorife the practice; for I have generally observed, that those who have undergone the operation in this species of fever, ran

very quickly into extreme danger, or died.

If, then, at the onset, there appears to be strong vascular action, saline mixtures, with slight antimonials, and acid gargles, slightly astringent, with occasional gentle aperients, or emollient glytters, if necessary, after the administration of a vomit, may be persisted in, till symptoms of putrescency make their appearance, which will soon be the case—then we must rely on blistering under the throat, and antiseptics, as bark, mineral acids, acescent drinks, and vinous cordials, for relief. SEE PUTRID FEVER, (223.) where we have treated on these remedies, except gargles, which may be made as directed No. 94.

Or the vehicle to the other ingredients may be pectoral decoction; the more antifeptic ones may be made of decoctions of bark, with tincture of myrrh, red port, and the mineral acid fome advice a gargle made of honey, barley-water, and spirit of sea falt—and after the sever has remitted, drying the ulcer with

quick-lime ley mixed with honey.

CHAP. II.

INFLAMMATIONS OF THE BREAST.

§ 1. PLEURISY, OR INFLAMMATION OF THE PLEURA.

THIS is an affection of that membrane called PLEURA, from the Greek word pleos, plenus, full, which lines the infide of the cheft, covering the ribs internally, and intercostal muscles (33.) and lungs, (28.) and forming the mediastinum and pericardium, (28.) attended with an acute sever, great pain, and diffi-

culty of breathing.

It is divided into the TRUE PLEURISY, when the membrane itself is affected—into the SPURIOUS, when the intercostal musce's; and also into MOIST, when expectoration is an associate; and DRY, when there is no such appearance—indeed, at the onset it puts on generally the appearance of the latter, and of the former in its progress, if not conquered by resolution; for then most commonly expectoration takes place.

DESCRIPTION. At the commencement, the patientis generally attacked with chillness and shivering, which are succeeded by heat, restlessness, pain in the head and side, the last



veffels-after the first bleeding, and in the intermediate times, fuch things should be administered as will co-operate to promote these intentions-we must, therefore, have recourse to fuch things as are diluting, relaxing, and emollient, with cooling and aperient dirretics-hence may the patient drink copioully of petioral decottion, bran or tinfeed tea, almond milk, apple-water, lemonade; in all which portions of nitre may be diffolved; and the body should be kept open with cooling and relaxing glysters, (No. 25, 26.)-a large founge dipped in warm vinegar applied to the mouth and noffrils is ufeful, as well as diluting drinks, that the vapors may be received with the air into the lungs, relax the pores of the pulmonary vehicles, promote exudation, and bring on expectoration, by unloading the diffended blood-veffels, and making them permeable-or, for this purpole, the fleams of warm water, or some emolicent decollion, might be received into the lungs by inhaling them from the fpout of a large tea-pot; or by Munge's inhaler, contrived for that purpose.

Emollient fomentations, or bags filled with boiled berbs, might be applied over the pasts—oily medicines, forming emultions or linches's, (No. 81 to 84.) might be taken internally occasionally—and nitre, mixed with a little campbor, or antimonials—and fa-

line mixtures given every two, three, or four hours.

In the beginning of this difease, there is little doubt but this, like other inflammations, may be carried off by resolution; but if the power and firength of the vessels have been so weakened, or there has been a plentiful deposition of morbid matter upon the lungs, which has changed the nature of the pulmonary fluids, we must then endeavour to promote, by all means, expectoration, as the only remaining means of saving the patient from extreme diffress, or death.

For this purpose, added to what we have above delivered, as an attenuant, seneka, or rattlesnake-root, (159.) is esteemed a powerful one, and has in these cases been attended with success, given three or four times a day; it promotes perspiration and expectoration; but when we find the latter is remiss, expectorants must be had recourse to, (No. 95.) four spoonfuls of which

must be taken every third or fourth hour.

When people begin to expectorate, some authors forbid any farther use of the lancer; but so long as the violence of the symptoms go on to increase, we may pursue it to a fourth or fifth time; nay, indeed, farther, according to the strength, till we find them alleviated, and the patient perceives himself considerably relieved.

This alleviation will be perceptible on the fourth or fifth day, by the head being freer from uneafiness, the tongue more moift; the the cough will be less troublesome; the breathing not so difficult; the expectoration more eafy; the matter less tinged with blood; and by some alleviation and freedom in the pulse, which will beat

more regularly, and with more quietude.

Under these circumstances, we should perfet in the use of di-Inents and expectorants, keeping the body open with gentle catharties, fuch as the electarium e cassia, oil of castor, manna, Rochelle falt, &c. (169 to 171.) or by the use of emollient gly-

fters --- defifting now from farther bleeding.

Though the discase in a few days generally terminates favourably, if the expectoration continues free and copious, yet fometimes it stops suddenly, and no other discharge succeeding, the breathing becomes difficult and laborious; we must then endeavour to renew the discharge, lest the patient should die suffocated, by bleeding, inhaling warm steams into the lungs, the application of blifters, and antimonials, sufficient to promote gentle vomiting.

As the mode of treatment mult be similar in the simple inslammation of the lungs, heart, mediastinum, pericardium, and diaphragm, (28, 29. 33.) we shall now only describe them, to shew

how they may be discovered --- and, first,

Q 2. PERIPNEUMONY, fo called from the Greek words peri, circum, about, and pneumo, pulmo, the lungs.

INFLAMMATION OF THE LUNGS.

DESCRIPTION. This begins with shivering or chillness, fucceeded by heat-after which there comes on anxiety, debility, and refflefinefs, watchings, and delirium-the blood drawn is fimilar to that in a pleurify-belides, there is a redness of the countenance and in the eyes-the tongue is white and dry-the respiration laborious, quick, and hot, attended with a dull, not an acute pain-the patient cannot lie on the fide affected-there is a pain in the shoulder-dry cough at first, afterwards moist, and vomiting - the pulle is full and fost-the urine high coloured, which, after standing, sometimes becomes turbid-at length the mind is disordered—the fight fails—a kind of histing noise attends the breathing-the pulse rather creeps than beatsthe extremities grow cold-partial fweats breaks out in the fuperior parts-and death closes the scene.

Now this complaint is obviously distinguished from a pleurify, by the breath being bot, the pain dull, not acute, and the pulse also

ull and foft.

CAUSES. The remote or inducing, (see page 325.) Proxinate or immediate, inflammatory obstructions of the terminations of these arteries of lungs, (30.) called pulmonary and bronchial, either separately or conjointly.

CHARACTERISTIC SIGNS. Febrile affections, attended with an obtuse pain under the breastbone, or betwixt the shoulders-anxiety, and difficulty of breathing-a cough, generally, though not always, moist-the face swelled, and of a purplish colour.

CURE. (See Pleurify, page 326.) But here it may not be useless to observe, that there seems to be a material alteration between the termination of an inflammation of the pleura and that of the lungs-the folution of the farft often happens by a plentiful fweat, or a copious discharge of loaded urine-of the last, more frequently by expectoration --- and in both cases, when these evacuations of sweat, urine, or expectoration have been perfect, a full and falutary crifis is formed, all the oppressive fymptoms vanish gradually, and the re-establishment of health happily fucceeds.

The inflammation of the mediaslinum, which is only a duplicature of the pleura, manifests itself by an acute pain in the middle of the breaft, between the breaft-bone and the spine, or clavicles or collar-bones, attended with frequent and quick

breathing, and the rest of the pleuritic symptoms.

The inflammation of the heart, and the membrane furrounding the heart, is accompanied with a deep-feated pain-weight, anxiety-very quick, and frequent respiration-great thirst-a heat in the cheft-palpitation of the heart-with a hard and unequal

pulse, and frequent fainting.

The same affection making the diaphragm, or that part of the pleura which covers it, (27.) the feat, has for its attendant fymptoms, an acute fever-restlessness-anxiety-and delirium-an acute pain between the spurious or short ribs, and the vertebræ of the back places opposite to them, agreeable to its situationthe breathing is quick and short, accompanied with convulsive catchings in inspiration-a dry cough and hiccough-the hypochondrium, or part below the short ribs is drawn in towards the back, and the abdomen, or lower belly, has little or no motion during the action of breathing.

The three complaints we have now mentioned are called by fystematic writers, CARDITIS, from cardia, cor, the heart-PE-RICARDITIS, from peri, circum, about, and cardia, - and PARA-PHRENITIS, in contradillinction to phrenitis, or the inflammation of the brain, because, though a delirium always attends it, the brain is only sympathetically affected in this case, whilst in

the PHRENITIS it is the feat of the difeafe.

With respect to the cure, we must pursue the same plan as advised in pleurify, exerting our strongest efforts to produce resolution, the only falutary termination; for all the other either

bring

bring on immediate death, or lay the foundation for fome irremediable complaint, of which we shall treat, as soon as we have taken notice of another species of the peripneumony; for in this place we have confined ourselves to such as were purely inflammatory.

MALIGNANT PERIPNEUMONY.

This complaint is by far more dangerous than that we have before described—as it generally attacks those where humors are in an highly acrimonious state, scorbutic habits, and failors

after long voyages.

DESCRIPTION. In this complaint, the blood is in a diffolved state, livid, and when drawn has no coriaceous, or leatherlike appearance upon its surface, as in the inslammatory species
—there is also great restlessiness with extreme debility;—pains
all over the body;—profuse sweats, and red, or livid cruptions,
like slea-bites;—the patients are apt to faint on the least motion, have a difficulty of breathing, and cough or spit up a thin,
fanious, bloody matter, which smells offensively—the pulse is

fost, and depressed, and the urine very high coloured.

CURE. The fever attendant on this feems clearly to be of the putrid kind, and as such must be treated—Bleeding, therefore, must be avoided, without at the beginning the pulse should be strong, for otherwise it does great injury, particularly if it should be repeated. Blisters also are mischievous.—Our chief dependence rests upon vegetable or mineral acids—campborated vinegar, (No. 55.) with a nourishing and aceseut diet—vinous liquids, particularly such as are attringent, the best of which are rhenish, claret, and red port—Opiates also have been found ferviceable in thickening and rendering more mild the thin, acrimonious humours deposited upon the lungs; but then they should be given with great caution, taking care not to increase the difficulty of breathing by their use.

Of the spurious peripneumony we shall take notice, when we come to treat on ashma; and now proceed to treat on some of the consequences of pleuritic and other inflammatory affections

of the breaft, forming different diseases.

For when the pleurify, or peripneumony is not cured by refolution, or expectoration, matter is generally formed within the cheft, which, according to its fituation, has received different appellations; when in the body of the lungs, though no more than an abfcefs, it is called vomica—from vomo, to vomit, because they vomit forth, as it were, matter—when between the pleura, EMPYEMA, from en and puon, pus, matter.

1. VOMICA.

DESCRIPTION. Upon the formation of matter, which, occurs, if the inflammation goes not off within fourteen days, there is an abatement of the feverity of the fymptoms—the pain ceases—and the pulse, still quick, is weaker and softer; yet the cough, dissiculty of breathing, and oppression still continue—and if in this situation the patient seels a slight shivering, succeeded by heat, little doubt remains of an abscess taking place;—add to this, if the cough increases upon the least motion, the patient cannot lie but on the side affected, and the symptoms grow daily more severe, accompanied with debility, and emaciation, these appearances make it more certain.—And should the vomica burst suddenly, a sufficcation may be dreaded—or should the matter not find its way into the branches of the windpipe, so that it may be coughed up, and make its exit out of the habit, all hopes of success are at an end,

2. EMPYEMA.

DESCRIPTION. An increased difficulty of breathing upon the reclension of the breast, preceded by an unresolved inflammation---inability to lie on the side unaffected; a sense of weight above the diaphragm, and many symptoms common to a dropsy of the chest—because the immediate cause is a quantity of matter lodged in the cavity of the thorax, or the matter may form a sac in any of the membranes of the breast; though they commonly burst, pour out their contents into the cavity of the chest, and by pressing upon the diaphragm, or other parts, according to the position of the body, occasion the symptoms before specified.

CURE. In both these cases every prospect of success depends upon freeing the habit from the offensive matter, which, should we not be able to accomplish, either the patient will die sufficiated—or consumptive. In an EMPYEMA there are no hopes, except making an aperture between the ribs into the chest, as low as possible, to avoid wounding the diaphragm.

In a VOMICA, if from the expectoration of matter we have reason to believe that it has burst into the branches of the wind-pipe, and the matter be white, smooth, and free from any offensive smell, and continue to be freely discharged; if all the oppressive symptoms from day to day abate, particularly the cough and laborious breathing, we must not despair of a recovery, which we must endeavour to promote by the use of expectorant balsamics conveying the steams of the ætherial spirit of vitriol—or Sterne's æther dropt into hot water, and inhaled into the lungs, in order to cleanse and heal the ulcer.

Ground ivy, hyffop, chervil tea, whey, fweetened with honey, are proper drinks---all animal food and broths should be avoided, and their place supplied with milk---rice, spinage, turnips, or any other diluent, cooling vegetables, properly prepared: these will keep the body cool, and dispose the humours to be mild and soft---and proceed farther in the manner we have laid down in pulmonary consumption.

Sometimes matter will be so situated by being locked up in a fac, whose sides are formed so thick, that the matter cannot be absorbed into the habit, but communicating with the branches of the windpipe, be from time to time expectorated---under this circumstance men will live a long time, as I have in two instances known, where nothing was ever attempted but putting

the patients on a milk diet.

Sometimes an adhesion will be formed between the membrane covering the outer furface of the lungs and the pleura which covers the inside of the ribs, forming a cavity, and points itself outwardly; or manifests itself by a constant fixed pain in some particular part—under these circumstances, when all hopes of a cure by expectoration are past the vomicæ and ulcers have been conquered essectually by an aperture being made into the cyst in which the matter was lodged. Cases attending the success of this practice, with the mode of management, may be found in Dr. Barry's treatise on the three different digestions, and discharges of the human body, to which our reader is referred.

§ 3. PULMONARY CONSUMPTION,

called Phthisis Pulmonalis, from the Greek word pthino or pthuo, corrumpo, to corrupt.

This difease is a wasting away of the whole body, attended with a hectic fever, cough, and spitting up of matter, from an

ulcer on the lungs.

Authors have divided them into different species; THE DRY, or TUBERCULOUS CONSUMPTION; --- THE MOIST, OR CATARR-HAL--- and THE SANGUINARY, from their attendant symptoms and causes; but by dividing this disease into two stages, and adverting to the cause, we shall, by a concise view, render it less perplexing; the FIRST, comprising its state of inflammation; the SECOND, of suppuration.

DESCRIPTION. The inflammatory stage begins with chillness, succeeded by heat, low spiritedness, and pain-shrillness of the voice, salt taste in the mouth, and dry cough-there is generally an oppression in the breast, especially after motion-thirst--

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a weight in that part of the lungs affected--lofs of appetite, and vomiting up fometimes of the food foon after taking it--the pulse is quick, fost, and small; fometimes full, and rather hard--and frequently a spitting and coughing up of frothy and florid blood --this forms the first species--and when blood is coughed up, the third, or sanguinary; and this by some is considered as a confumption in its incipient state.

After some time, matter is expectorated of different colours, white, yellow, green, bloody, either without smell, or offensive—the body begins to sall away, and grows cold even in summer—the hectic sever increases in the evening, and in the morning abates by dissolving sweats—there is a burning heat frequently in the palms of the hands—and in the day loosenesses come on, or the patient makes a larger quantity of water—sometimee the tongue will be beset with small ulcers—and, after eating, the patient will have a fixed red colour in his cheeks—the singers grow thin, though the ends are bulbous, and nails curve inwardly—the feet swell—the hair salls off—and pit of the stomach seems to be pulled inwards and upwards—all the sunctions grow languid—the body dry—and the eyes sink deep within their cavities—at length, from debility, the patient pays the debt of nature, at the time when he is stattering himself with the hopes of a recovery.

CAUSES. The remote or inducing are, acrid matters separated by the lungs, and, by their slimulus, exciting a cough-small glandular tumors, called tubercles-sumes of arsenic, or other noxious materials, getting upon the lungs-moist air-spitting of blood-a diminution or suppression of evacuations to which the constitution is accustomed-inordinate passion-sedentary mode of life-too luxurious living-extraneous bodies getting into the lungs-wounds-retropulsion of acrimonious humours-besides, it is occasioned very often by a variety of other diseases; as scrophula, pox, small-pox, meazles, scurvy, asthma, pleurify, and peripneumonic diseases; scarlet sever, and other continued and remittent severs; besides, it may by contagion be acquired; and is also hereditary.

The proximate or immediate is, in the first stage, an inflammatory state of some portions of the lungs, particularly the glandular; in the second, almost always ulcerations, which the opening of dead bodies who have died of this complaint verify; though sometimes the cause has been found to be, an induration and swelling of the bronchial glands, which are dispersed through the lungs, hard and black, not suppurated in the center, but running together, and sirm, of the size of hazle-nuts or nutmegs, and oozing out a purulent mucus into the terminations and branches of the windpipe, not observable in the spits—some of them form

earthy concretions, do not suppurate kindly, but remain in a state of hardness, and, when cut, ooze out a thick purulent mucus, and thick black blood.

CURE. Now, whether we consider them as different species, or as different stages of the same complaint, we must adapt our mode of cure accordingly-hence, then, IN THE FIRST STAGE, we must endeavour to conquer the inflammation, by gentle bleeding, renewed at proper intervals, and the applications of blifters to the back and fides, frequently repeated; we should also give oleaginous and incraffating demulcents, to sheath the humours, and prevent the coughing-gentle vomits should be, after proper evacuations, repeatedly had recourse to, at least every morning, by giving a few grains of ipecacuanha, white or blue vitriol; though the first is preferable-a course of goat's whey would be uleful-living upon vegetable diet, and being extremely temperate-when the inflammation abates, gentle dofes of fome deobstruents; fuch as ammoniacum, millipedes, myrrh, ammoniacal iron, &c. would be serviceable to some; to others Seltzer water; those of Mosfat, Harrowgate, Kilburn, Islington, to others; using at the same time riding exercise.

Small doles of mercury have been thought efficacious in refolving the tubercles after the inflammatory stage is over, of which quickfilver with chalk, by some, has been preferred to every other composition of that class; but, whatever of them are administered, should be given in small doses, in proportion to their

activity.

IN THE SECOND STAGE, the indications are, to discharge the offenfive matter from the constitution by expectoration, or any other
mode agreeable to nature, permitting her always to point the way;
heal the ulcerations, strengthen the lungs, and give tone and sirmness to the habit in general; for which purposes chalybeate waters,
mineral acids, particularly elixir of vitriol, have been recommended; gentle exercise, especially riding on horseback; a clear, dry,
warm air, and such amusements and company as will moderately exhibitate, not fatigue the spirits—venery, all painful mental
affections, or too great solicitude about business, should be avoided.

In order to clear the lungs, and produce freedom of expectoration, we advise gentle emetics, (see above.) and failing, for these are greatly conducive towards giving strength to the part affected—the myrrh mixture, (No. 96.) has been in many cases highly serviceable—and, in order to prevent the absorption of matter from having any bad effect upon the blood, antiseptics, not of the stimulating kind; and demulcents, with vegetable and mineral acids, should be used, if the patient has no looseness to forbid their

admini-

administration—bark also in this point is beneficial—at the same time the patient should be kept on all such things as are cooling and nutritions, and what we comprehend under the term milk diet—and if neither riding exercise or failing can be procured, swinging in the open air must be substituted in their places.

Nothing is more necessary than an exact observance of regimen in point of diet in these consumptive cases; but of this, and other particulars, we have before spoken when on hectic sever, to the cure of which we shall refer our reader, (261, &c.) and proceed to treat on some other species of consumptions, which arise not from affections of the lungs, but from matter formed in some other of the viscera, and these are called

TABES,

from the Latin word taheo, to pine away.

DESCRIPTION. Emaciation of the whole body, attended with an hectic fever, loss of strength, without much cough or spitting of matter; and these are generally owing to formation

of matter in some of the interior parts of the machine.

If it happens in the LIVER, it is known by pain extending itfelf up to the shoulders—a swelling, and pain on touching the region of the part affected—nausea, vomiting, and looseness there is frequently a cough—the skin has a sallow or yellowish look—and the sediment in the urine is either brown or yellow.

If in the STOMACH, it manifelts itself by foetid offensive belchings—a cough without expectoration—a vomiting of purulent matter—fainting frequently—sweats—and pain, either during

the time of swallowing, or just after.

If in the INTESTINES, it is discoverable from the situation of

the parts, and the separation of matter by stool.

If in the MESENTERY, the figns are nearly fimilar to those which occur when in the liver, (see above) though a hectic fever, joined to a tense swelling of the belly, and a frequent diarrhea, are distinguishing marks of this disease.

If in the KIDNEYS, there is a weight in the part affected, the patient lies on his belly, the urine has matter mixed with it, and

there is a disticulty and pain in making water.

If of the WOMB, it is known by a pain of the loins, and a flow

of matter externally through the vagina. (51.)

A tabes may also be occasioned by matter being lodged in some parts more external, where an evacuation of pus may be procured by opening the abscess; which done, and the ulcer healed, the cure will be completed; but where this cannot be accomplished, as is generally the case in almost all of the imposshuma-

tions

tions we have specified, we must attempt to correct the acrimonious state of sluids brought on by the absorption of matter, and guard the constitution against its essects, by the use of Peruvian bark, and such a regimen as we have before laid down in cases

of confumptions from ulcers of the lungs.

Sometimes, though there will be a scirrhosity, or hardness of the parts, particularly the liver and mesentery, arising from the vessels being obstructed; to the latter of which children about seven years old, without any signs of a scrophulous taint in the habit, born of common prostitutes, are said to be the most subject—they grow pale, spiritless; have a voracious appetite, sometimes a depraved one, longing for things uncommon and improper to eat; with a relaxed state of the intestines, and a looseness, in which the food taken passes away almost in an unaltered state, soon after eating; they fall away, are consumed by a low lurking fever, and often fall into a dropsy of the belly, or a local instammatory affection comes on, and closes the scene in death.

CURE; This, in all cases of their kind, is to be attempted, by steel medicines, or waters, goat's whey, fossile alkali, or so-da, (Page 185.) or such of the mineral waters as abound with them, joined to ass' milk---deobstruent gums, particularly myrrh, ammoniacum, with soap, and preparations of steel, rhubarb, and tartarized kali, may, when opening medicines are necessary, be given; and, with the use of these, a milk diet should be persisted in, with great regularity.

Though we have faid that most of these consumptions, not of the pulmonary kind, arise from so mation of matter, or obstructions, there is one which deduces its origin from another cause;

and this is called

TABES DORSALIS, OR THE DORSAL CONSUMPTION.

from the Latin word dorfum, the back; which, besides the common symptoms of a tabes, is to be distinguished by others, as a constant discharge of mucus, or feed so called, through the urethra, with frequent nocturnal emissions—dissipulty of making water—costiveness—pain and weakness in the small of the back—violent and acute head-ach—with an uneasy creeping sensation down the spine from the neck to the loins—dissipulty of breathing, and weariness, with an heaviness of the head, and ringing of the ears.

The general CAUSE of this complaint is, excels in libidinous indulgencies, which often ends fatally, as the unhappy victims are generally fo weak as to perfift in them; and, without total

abstinence, the most judicious advice will be inessicacious.

CURE.

CURE. This depends upon our attempts to invigorate the fystem, and increase the strength and activity of the solids, by a course of als' milk, steel waters, the cold bath, with bark, and elixir of vitriol---the patient living in a pure air, using gentle exercise, light, and moderately cordial diet, given in small quantities, such as will not be too great for the strength of the digestive powers---these applied in time---and no disease requires more early application---before the hectic sever, and violent night sweats come on, may give relief; but, after that period, there is little hope for success.

§ 4. INFLAMMATION OF THE STOMACH, or GASTRITIS. from the Greek word gaster, ventriculus, the stomach; in which case the stomach is said to be inslamed wholly, or only

in part.

DESCRIPTION. In this complaint the GENERAL SYMPTOMS are, extreme anxiety--watchings--reftlessness--tossing
about of the body-fainting-with a most acute fever, soon accompanied with nervous and putrid sebrile assections—the Local; great thirst-difficulty of breathing-pain in the region of
the stomach--excessive heat, and a sense of burning--continued
painful vomiting-biccough, and extreme pain from throwing up
of wind, and particularly after taking any sharp acrid medicines
-fullness and tension of the stomach--the pulse rather hard, con-

tracted, and frequent-with coldness of the extremities.

CAUSES. The remote or inducing are, a prevalent predifpofition in the flomach being prefent—bruifes on the region of
that organ, or wounds in the flomach itself—drinking of cold
water, fermented liquors, strong acrid emetics or purgatives, or
other acrid medicines thrown into the stomach—corrofive poifons—acrimonious humours generated in the blood, or repelled
from the exterior parts of the machine, and thrown upon the
coats of the stomach, such as that of the small-pox, miliary
eruptions, gout, acrid bile, or any hard substances swallowed,
and lodging in the stomach; or, in fine, any thing fixed there
capable of producing strong irritation—which naturally bring on
the proximate or immediate cause, inflammation.

CHARACTERISTIC SIGNS. These may be known from

the Italics in the description.

CURE. This will in many cases depend upon adverting to the causes acting upon the stomach, and taking off that action; but if it arises only from those which commonly induce instammation, our chief dependence must be upon copious bleeding, fomentations, cupping upon the parts, and local blistering, and keeping the body open with emollient glysters—very little

can

can be expected from internal remedies, from the propentity the stomach has to reject whatever is taken down—hence all we dare venture upon are demulcents, only moderately warm, such as solutions of gum arabic, tragacanth, or spermaceti, with nitre; to which may be added, a very small portion of camphor, and three or four drops, now and then, of the tincture of opium—nitre may also be added to the glysters, and thrown up freely into the bowels—slannels also, soaked in warm solution of nitre, may be applied as a somentation.

But what we must most insist upon must be bleeding—nor must we be directed by the pulse, as in this case it is apt to deceive us, for it is generally small, quick, and irregular; sometimes intermittent; the operation should therefore be repeated till the pulse rises, and beats with some degree of freedom.

Indeed, if resolution is not accomplished in the very begin-

ning, mortification will very rapidly fucceed.

Suppose Poison should be the cause, at a very early period a quickly acting emetic should be given, such as white or blue vitriol, instantaneously, and afterwards large draughts of new milk, or fresh butter melted, and oil; these are extremely salutary; or any other sheathing liquids, drank in such quantity as to fill the whole alimentary canal, in order to guard the coats of the stomach and intestines from receiving any injury from the acrimony of the poisonous stimulus—when even arsenic has been taken, these have been found efficacious.

Should the poisons be compounded of any metalline substance joined with an acid, suppose corrosive sublimate, before the inslammation comes on, alkaline salt dissolved in water should be freely administered; this will disunite the compound, and ren-

der it inactive.

Admit it should be occasioned by any eruptions receding from, and thrown back into the habit from the surface, and fixing on the stomach, we should apply blisters, in order to recal to the skin the offending matter, by soliciting a more copious flow of humours there.

5. INFLAMMATION OF THE INTESTINES.

Perhaps there is not any complaint to commonly talked of as this; yet it certainly does not occur any thing like to often as is imagined—fome species of the colic is frequently, I am persuaded, mistaken for it—practice warrants me in faying thus much.

manner: after the body has been coffive, there comes on acute
U u pin,

pain, and distension of the body, particularly near the navel; the costiveness then becomes more obstinate—the patient complains of sickness, and throws wind upwards—then succeeds vomiting of the contents of the stomach, afterwards of viscid phlegm and bile—should this continue, the sæces come up, nay, even the glysters, by the mouth—there is much difficulty of breathing—an obstruction of urine—the pulse quick and small—thirst—and great debility—the pain at length ceasing, saintings, hiccough, delirium, and convulsions, close the scene in death, occasioned by a mortification having taken place.

CAUSES. Those which are remote or inducing are said to be, ruptures in the groin—worms—stimulating medicines—poisons—or too acrimonious bile—too long retention of seces—unripe fruit—or any hard substances lodged in the intestines—an
introsusception, or running in of one of the bowels into the
other, and there confined by some stricture—tumors or hard

fwellings in the intestines or neighbouring parts.

The proximate or immediate, what occurs in other local inflammations, attended with the natural motion of the bowels, called periffaltic, inverted and turned upwards, arifing from the bowels

being obstructed.

CHARACTERISTIC SIGNS. Great internal pain, and foreness about the navel, so that it can scarcely bear the touch, with a distension of the belly, accompanied with thirst, heat, great profration of strength, and a quick small pulse.

CURE. Whatever may be the cause, we must labour to bring bout, as quick as possible, resolution, lest mortification should be the consequence, which may in a very short space of

time fucceed.

The treatment recommended in the inflammation of the flomach will be here proper; though more reliance may be placed on internal remedies, which must be calculated to gain a passage through the bowels, check the vomiting, and subdue the inslammation.

To answer the first purpose, the mildest aperients should be tried; if they avail not, those which are stronger; and should they be rejected, we may couple them with opiates; the doses should be small, and often repeated. (See No. 97 to 99)—If liquids will not succeed, solids may supply their place, (No. 100, 101.)—or should these not answer, in conjunction with them, suppositories, (No. 102.) and irritating glysters, (No. 103.) or the use of tobacco, (155.) may be tried; or crude mercury may be taken, an ounce at a time, three or four times a day.

Should some acrimony be suspected to be the cause, the purging antimonial mixture is recommended, (No. 104.) of which fet three or four spoonfuls be taken every second hour, till the patient vomits, and has a free passage downwards. Indeed, when every thing has been tried in vain, cold water thrown suddenly upon the feet, legs, thighs, and belly, laid bare, has succeeded.

If these remedies, added to the applications we have advised in inflammations of the stomach, do not answer our purpose, mortification will take place—and here we must be careful that we are not deceived; for people, for ten or twelve hours before their death, being freed from pain, flatter themselves with the hopes of recovery, even when the fatal scene has commenced, and they die in a few hours—but if the pulse should be low, the countenance become pale and ghastly, and cold clammy sweats come on, we may be certain of the dreadful event.

But, should our efforts prove successful, great care should be taken to avoid a relapse; for, unless the bowels have acquired

proper strength, the malady is apt to return.

The diet therefore should be, for some time, of the lightest kind, and not slatulent—the patients should be kept quiet, free from cold, and unrussed by mental inquietude—nothing crude and difficult of digestion should be taken; nor should they use much walking exercise, or any severe motion of the body.

6. INFLAMMATION OF THE LIVER,

called HEPATITIS, from the Greek bepar, jecur, the liver.

The liver itself may be inflamed, still manifest itself by different symptoms, which authors have thought necessary to specify, in order to avoid any errors which might occur for want of such

proper distinction.

DESCRIPTION. If the inflammation happens on the interior concave part of the liver, it is discoverable by a fixed obtuse
pain, and weight in the right side under the short ribs, attended
with heat, uneasiness about the pit of the stomach—the pulse on
the attack being almost in the natural state; though afterwards
much quickened—there is in the right side also a distension—
the patients lose their appetite, are sick, and troubled with vomiting—the tongue becomes rough and black—they complain of
pain in the stomach, have a very troublesome hiccough, and their
countenance is either pale, of a citron colour, or yellow like
those in the jaundice.

If it is on the superior or convex part, they feel an acute pain in breathing, extending either towards the throat or snoulder—the pulse is quicker—they have a dry cough—lie down with difficulty

ficulty on the left fide-are troubled with hiccough and vomit-

ing, and grow extremely weak.

CAUSES. The remote or inducing are, too violent and repeated shocks from vomits—hard tumors of the liver—extremely tenacious blood—too great a load of fat in the omentum or caul, (37.)—cold air, or cold liquids suddenly affecting the liver, at a time when it experiences too great a degree of heat.

Though some do not consider the complaint as originating in the liver itself, but communicated from the parts which lie contiguous to it, being thus primarily assected—to all which we may add, amongst the number of inducing causes, all such as are com-

mon to other fevers of this kind.

CHARACTERISTIC SIGNS. A tension and pain in the right side under the spurious ribs, sometimes pungent, like that of a pleurisy; sometimes more obtuse, with a sense of heat and weight—a pain at the collar-bone and top of the right shoulder—an uneasiness on lying down on the left side—a difficulty of breathing—dry cough—vomiting and hiccough—the sace of a yellowish colour, accompanied with thirst and a loathing of food.

CURE. This disease in our climate is considered as rather uncommon, though, if properly treated, it rarely becomes dan-

gerous.

In this, as in other cases of visceral inflammation, we must have recourse first to copious bleeding, nor wait to be sed till it is indicated by the pulse; after this, a blister should be immediately applied over the part affected, where the pain is selt; the belly should be somented, the legs bathed in warm water, and emollient and attenuating glysters frequently administered, (No. 25, 26.)—faline neutral mixtures, with antimonials, should be given, to which should be added as much rhubarb as will keep the body constantly soluble, (No. 8.) and when the pain and other inflammatory symptoms are perceptibly abated, mercurial purgatives, joined with antimonials, will be of the greatest advantage. (See No. 105, 106.)

These means, if early and judiciously applied, will generally conquer the inflammation—if not, an abscess of scirrhus is formed—the consequences of which are very frequently incurable tabes, jaundice, and dropfy—though there are sometimes peculiar circumstances by which the patient in cases of abscess is preferved—should the inflamed part of the liver form an adhehon with the membrane covering the inside of the right hypochondrium, or part under the spurious ribs, so that the matter confined in a sac is prevented from falling within the cavity of the belly, and pushes outwardly, occasioning a swelling which points

to the feat of the abscess, an incision made into it, sufficiently large to evacuate the whole matter, may save the life of the patient, (see page 331, &c.)—sometimes the matter formed will be thrown out of the habit by the kidneys, sometimes by the intestines; but from whatever cause matter is formed in that organ, we must wait for the operation of nature, and have recourse to such remedies as the circumstances of the case will admit, labouring chiefly to support the constitution in the manner we have before specified, when treating of consumptions from internal abscesses.

§ 7. INFLAMMATION OF THE SPLEEN.

called SPLENITIS, from the Latin word fplen, the spleen.

This, though a case which very rarely occurs, still, in consequence of certain severs of the remittent and intermittent class, the spleen will frequently be loaded, and remain in a hardened and indolent state—however, when it does make its actack, it

puts on the following appearances:

DESCRIPTION. There is a pain, generally dull, and fixed in the left hypochondrium—also a weight attended with a remittent fever—there is generally a protuberance on that side externally, attended with a throbbing pulsatile pain—the fever, for the most part, increases every fourth day—the feet and knees grow red—the nose and ears sometimes pale, attended with a difficulty of breathing.

CAUSES. These are similar to those which induce the same affection of the liver, if we except the morbid defect of the o-

mentum or caul.

CHARACTERISTIC SIGNS. Distension and pain of the left hypochondrium, increased on pressures, without any symptoms of an inflammatory state of the kidneys, attended with a remittent sever.

CURE. Similar to what we have delivered in cases of in-

flammation of the liver.

But, without much previous diffress or disorder, an abscess will here sometimes be formed; which, bursting suddenly, pours its contents amongst the viscera of the belly, and in a few days destroys the unhappy patient.

§ 8. INFLAMMATION OF THE KIDNEYS, OF NEPHRITIS.

fo called from the Greek nephron, ren, the kidneys.

DESCRIPTION. Those who are seized with this complaint feel a heat and pain, and sometimes have a reducts in the region

of the kidneys, attended with febrile affections—they complain of a numbres of the thigh and leg of that side in which the affected kidney is situated; they make water with dissipation of which is at sirst pale, afterwards high coloured—and complain of a painful uneasiness in sitting down or standing—they lie down with most ease on the side affected—they complain of coldness of the extremities—are sick, and vomit, and breathe with dissipation at length, if resolution takes not place, a suppuration or mortification succeeds.

This has not unfrequently been mistaken for in inflammatory lumbago, or pain of the loins; but from which it is distinguishable; sirst, from the patient's being able to raise himself into an erect posture; from being bent forwards without any remarkable pain, which in the lumbago is very severe; from the pain following the course of the ureters (50.); from the difficulty of making water, and the urine being more changed, which is not the case in the lumbago.

CAUSES. The remote or inducing are, whatever causes an irritation in the kidneys, so that the blood is determined too freely and obstructed there, such as wounds and bruises--calculous concretions--food which generate flatulencies in the bowel, called colon, (43.)--heating diuretics--shaking in a carriage, or on horseback--suppressed evacuations--fullness of blood, or any

ftrong spasmodic contractions of the kidneys themselves.

The proximate or immediate are fimilar to what induce other local inflammations.

CHARACTERISTIC SIGNS. Pain in the region of the kidney, often pursuing the course of the ureters—frequently making water—the urine being either pale, thin, or of a very red colour—numbness of the thigh—retraction or pain of the testicle of the same side, and vomiting.

CURE. If it proceeds from common causes, such as induce other local inflammations, the same mode must be pursued as has been repeatedly advised in the foregoing part of this work.

But suppurations are often formed here, which are discoverable, notwithstanding the abatement of the pain, by a sense of weight perceptible about the region of the loins, with hot and cold sits succeeding each other, and the urine, from being high coloured, without sediment, becoming whitish and turbid—under this circumstance people will live many years, from there being so free an exit for the matter out of the machine by the ureters—however, in ulcerated kidneys, goat's whey, balsam of copaiva, (P. 165.) Canada balsam, (P. 175.) and also sossile alkaline waters are recommended—solutions of kali impregnated with sixable air, (P. 199,)—demulcents, (P. 187.)—the leaves

of the bear's wortle berry, (P. 139.) in powder, have been highly recommended in these cases; and, from experience I speak,

much may be done by its ufe.

But those calculous concretions, called stone, or gravel, are the most frequent source of inslammation in the kidneys---this cause is discoverable by the pain increasing, and being more acute from exercise, or riding in a carriage---being more violent at intervals---from the urine being sometimes gravelly, bloody, or mucous---the numbness of the the thigh---retraction of the testicle on the side assected---pain following the course of the ureters---as well as nausea and vomiting being more violent.---. The indication of cure in this case is, not only to take off the inslammation, but to procure a passage for the offending materials, whether gravel or calculus, by relaxing the parts, that it may slip away, and be evacuated.

Here then, befides bleeding, warm bathing is effentially necessary; fomentations copious use of demulcents, (P. 187.) particularly the internal emollients, (P. 142.) oily emulsions and draughts, (No. 81, 98, 99.) emollient glysters, with turpentine and opium, (No. 116. 121.) diluent mucilaginous liquids sweetened with honey, as bran tea, linseed tea, decoction of marshmallows, or that of barley, in which last is dissolved gum ara-

bic, or gum tragacanth.

Nitrous medicines joined with the fame gums may be admi-

nistered, and opiates in small doses.

By these means the ureters will be relaxed, and sheathed, for the easy and quick passage of the calculus, or gravel, into the bladder---besides, the irritation on the parts will be lessened, as they will become less susceptible of the stimulus.

Should the stone be small enough to pass into the bladder, and be evacuated, the complaint ceases—if not, a different one com-

mences, which we shall treat of hereafter.

9 9. INFLAMMATION OF THE BLADDER, OR CYSTITIS.

from the Greek word kuflis, vefica, the bladder.

DESCRIPTION. In this complaint, the patient experiences a pain and tumor of the lower part of the belly--a frequent defire, and difficulty in making water---fometimes a suppression of urine --- and frequent efforts to go to stool, attended with febrile affections --- to which we may add, the pain on touching is intolerable--- watchings, thirst, and delirium, with coldness of the extremities come on-- and, by retention of the urine, an increased hardness of the tumor.

CAUSES. The remote and inducing are, urinous acrimony

concurring with fullness of blood-an acrid state of sluids-inslammation of the urethra, from venereal ulcers or acrid injections-inslammation of the rectum-suppressed piles-taking Spanish slies in too large quantities-in which, besides the difficulty of making water, or severe strangury, bloody urine will be voided, and a priapism occasioned, sometimes bringing on convulsions-or it may originate from blows, bruises, compression, hard riding, or, indeed, from the stimulus of a stone in the bladder.

CURE. From whatever cause it proceeds, it must be cured, consistently with the plan laid down in inflammation of the kidneys; only, in this case, greater benefit may be derived from

fomentations and vapour applied to the parts affected.

There are also inflammations of some other parts of the lower belly as the peritoneum, that membrane lining the lower belly as the pleura does the chest---omentum, or caul, (P. 37.) mesentery, (P. 46.) which, as they all of them require the same mode of treatment, we shall particularize only those symptoms by which they are said to be distinguishable.

THE INFLAMMATION OF THE PERITONEUM, OR PERI-

fo called from peritoneum—is discoverable by a pain of the lower belly, which is increased by the body being in an erect posture, attended with fever; though not accompanied with signs peculiar to other abdominal inflammations.

INFLAMMATION OF THE OMENTUM, OR CAUL, NAMED OMETITIS.

This is diffinguished by an acute darting pain, perceptible, through the superior and middle part of the lower belly, below the skin, muscles, and membrane of the abdomen, increased upon pressure, with swelling and tension, accompanied by an inflammatory fever.

IFLAMMATION OF THE MESENTERY, OR MESENTERITIS.

In this there is a tumor and deep-feated pain in the region of the navel, or thereabouts---the habit is altogether costive, or nearly so---from the administration of glysters, after the sirst not any thing is evacuated---the fever is sometimes slight, sometimes remittent, at others violent---the urine high coloured--there is a bitter taste in the mouth---loss of appetite, thirst, and watchings watchings come on --- afterwards a thin, red, fætid, or white mat-

ter passes off by stool.

THE MUSCLES OF THE LOWER BELLY WILL BE SOMETIMES INFLAMED, and from thence theliver compressed—which physicians have sometimes mistaken for an inflammation of the liver—but which is easily discoverable, from touching the skin, pulsation of the tumor, and circumscribed sigure, extending itself beyond the limits of the liver, and above the ribs—from the absence of cough, dissiculty of breathing, vomiting, and hiccough—matter here forming between the muscle of the abdomen and the membrane which lines the inside of that cavity, has been mistaken for an affection of the liver itself—therefore necessary to be specified.

CURE. In all these cases we must have recourse to the same methods as have been repeatedly pointed out in local in-slammations, to prevent suppuration—which, if we cannot effect, a tabes will be the consequence, particularly in the three first mentioned—but we must here observe, that in cases of in-flammation of the peritoneum, or that of the must cles of the Abdomen, we must depend much on somentations—applying after each operation, volatile liniment, with tincture of opium, (No 107.)—and should not these succeed, blisters—which in the others may be useful—and in all, repeated glysters; for these act also as somentations, and in most apply closer to the part affected.

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SECTION XIV.

ON DISEASES WHERE PAIN IS THE CHARAC-TERISTIC SYMPTOM.

WE consider pain as arising from four different causes, either from nervous incitability, (P. 27.) vascular or muscular irritability, (P. 27.) distension, or spalm, creating stimulus; and when it is so oppressive as to become the most violent symptom, being of long duration, or frequently returning, it constitutes diseases of this class—which take their names either from the cause known, or supposed to be the agent, or from the feat of the affection.—Yet we mean not here to include all diseases which have pain for their associate, because it is attendant on all inflammations, settled severs, remarkable evacuations, and evident spalms; but confine ourselves to those diseases where X x

pain is the predominant symptom, unaccompanied primarily with any of the above-mentioned disorders.

CHAP. I.

§ 1. HEAD-ACH.

IN this complaint, it will be fufficient to enumerate the causes; because it requires not any particular description; and, according to the cause, to that is the cure adapted—but first we must observe, that it has been divided into three species, the two first agreeable to the nature of the affection; the last to its feat.

If there is a heaviness and uneasy dull sensation, occasioning a pain in the head, as if it was too full, internally distended, and overloaded, it is denominated CEPHALALGIA, from hephalos, caput, the head, and algos, dolor, pain;—and, by way of distinction, CEPHALÆA, if the whole head should not only be affected, but the pain be acute and violent, having severe exacerbations, or increase of severity on slight occasions, with spasmodic tension, and foreness of the integuments.

And should the pain attack either side of the head, chiesly at the temples, forehead near the eyes, and that should be violent, and often periodical, it is called HEMICRANIA, from emissis, di-

midium, half, and kranon, caput the head.

CAUSES. 1st, A too great fullness of blood—2d, suppression or retrocession of the menses or piles—3d, morbid particles occasioning intermittents—4th, from a load on the stomach, and indigestion—5th, different species of acrimony; as that of the pox, gout, rheumatism—6th, hysteric spasms—and, 7th, from latent causes undiscoverable, or irremediable when known—to each of which in our mode of cure we must particularly advert.

If it deduces its origin from the FIRST---a full flow pulle--florid countenance; though oftener pale---load and heaviness of the head, particularly of the fore part, immediately after rising in the morning, or stooping to the ground---a difficulty of thinking, of distinctly reasoning, and detect of memory, distinguish this.

Bleeding and purgatives will generally afford relief; if not, cupping at the nape of the neck, or back part of the head, may

be had recourse to.

If from the SECOND, bleeding during the fit will be necessary, and attempting to reproduce the periodic discharge, and solicit the renewal of the piles---bleeding in the feet in the former, and at the anus with leeches in the latter, may be attended with agreeable consequences.

If from the THIRD, and it puts on intermittent appearances, bark alone, or coupled with valerian, (150. 193, 194.) (No. 32.) becomes efficacious, and giving emetics, (No. 11. 12, 38.) at

proper intervals,

If from the FOURTH, it will be attended with throwing up of wind--nausea--load and pain in the stomach--a bad taste in the mouth--and vomiting; though this last will also attend both cephalalgia and hemicrania, (946.) without the origin of these diseases being in the stomach, but in the head only; hence

we should be careful in making this proper distinction.

Therefore, if it is owing to the stomach, we must apply to emetics, (No. 11, 12. 38.) should not any thing in the constitution prohibit their use; and afterwards to purgatives; taking care previously, if necessary, to empty the vessels of the head by bleeding; afterwards bitters and chalybeates, (No. 61 to 65.) to strengthen the stomach—we must also assiduously prevent costiveness, with proper aperients taken occasionally. (No. 66, 108.

If from the FIFTH, we must proceed to attack the discases from whence they originate, as under these circumstances they

are only confidered fymptomatic.

If from the SIXTH, or those called nervous headachs, penetrating, volatile, antispasmodic substances externally and locally applied, such as WARD's effence, æther, compound spirit of ammonia, camphor, will sometimes give immediate relief—plaisters also made of opium, applied to the part affected, in periodical partial affections of the head, I have known efficacious.

If from the SEVENTH, we shall be convinced how impossible the causes are to be discovered, and how little is to be done, if we only mention what has appeared on dissection of those who

have laboured under this complaint.

In fome the futures of the feull were so closely and sirmly conjoined, that no traces of the junction of the bones of the cranium, were to be found—in some the dura mater (26.) was thickened and indurated, and in others it held earthy concretions—the feull, in some, fent out little processes, like thorns, running through the membranes into the brain—and, in others, crude quickfilver was found in the ventricles of the brain, (27.) at the basis of the scull.

Some periodic headachs, from fuch latent causes, will continue for

for a long feries of years, without any fatal effects; whilst others, if they are constant and violent, terminate in apoplexies, some kinds of had severs, or spasmodic diseases.

Some general rules, however, are necessary to be observed,

whatever may be the precise nature of the affection.

Patients subject to these complaints should always keep their hands, arms. legs, and seet warm, particularly their legs, and have them well subbed at bed-time—avoid costiveness—eat very light suppers—lie with their heads high, and in thin night-caps—their food should be always light, and easy of digestion—their exercise moderate—and their minds kept in a state of cheerful ease.

\$ 2. EAR-ACH, OR OTALGIA.

from ous, auris, the ear, and algos, dolor, pain.

We have before spoken of the inflammation of the ear, § 2. in inflammatory complaints; but there are other causes which induce this complaint; as, 1st, worms, supposed to arise from the eggs of the slesh-sly deposited in the wax, which form for them a nest—2d, a defluxion of bumours—3d, from bard bodies pushed into the ear:

In the first instance, fracke of tobacco poured into the ear, and

afterwards warm oil, prove efficacious.

In the fecond, the fymptoms are not violent—there are pain and swelling in the vicinity of the ear—running at the nose—cough—but oftener a foreness of the throat—frequent sounds and ringing of the ears—with painful sensations from those which come externally.

This complaint is apt to be occasioned by cold itself, or moist cold winds striking the cars and head, exposed to them without

covering.

Local bleeding behind the ears with leeches, and bliflering there, or the back part of the head, and, at the fame time, the liniment, (No. 110.) may be dropt into the ear; fedative fomentations, (No. 111.) are useful, with fedatives and diaphoretics, (No. 4 to 10.) given internally.

In the THERD, the bodies must be extracted in the gentlest manner. We have an account of acute pains, attended with other melancholy circumstances, by FABRICIUS HILDANUS, occasioned by a ball of glass falling into the ear, and continuing

for eight years, cured by extraction.

And we are also told, that some surgeons, mistaking a swelling of the bony part of the ear for some extraneous body, destroyed the patient, by the violence exerted for its extraction.

Thefe

These cases shew the necessity of caution and circumspection, even in cases considered in themselves as trivial.

6 3. TOOTH-ACH, OR ODONTALGIA,

from odous, dens, a tooth, and algos, dolor, pain.

This complaint is known by a throbbing, gnawing, darting, or some other species of pain in the teeth, attended with watchings; sometimes with a swelling of the cheek, great discharges of saliva from the mouth, &c.

Its feat is supposed to be the nerve creeping over the internal, sometimes the external, membranous covering of the tooth.

CAUSES. 1st, Caries, or decay of the tooth or teeth affected—2d, an acrid defluxion, or flux of acrimonious humours, as of the scurvy, rheumatism, gout, from the obstructed perspiration—3d, nervous or hysteric affections—and, 4th, pregnancy.

If it arises from the FIRST canse, it is generally perceptible to the fight—the caries though sometimes lurks between the teeth—fometimes begins internally, sometimes externally—however, when it is not perceptible to the eye, it may be discovered by the teeth being almost pellucid like pearl—or by the shock of some metallic instrument, which increases, or renews the pain—by a feetid breath—a sharp darting pain from cold water, or cold air received into the mouth—from a gnawing pain—from the obstinacy of the disease, without any considerable tumor of the gums—from sidulous ulcerous gums, having a small circular tumour round the orisice, and a purulent discharge—from rotten teeth, ulcerations have been formed, and swelling on the chin, and about the cheeks, which are never cared without drawing the tooth.

CURE. Drawing is the first remedy—though, if at the beginning a small speck or portion should be perceived discoloured, that should be immediately taken off, by which its progress would be stopped—applying oil of vitriol to the part affected, or muriatic acid, and neutralizing it with kali prepared, and then filling the hollow tooth with lead, or gum massich, has been successful—a pill of opium and camphor, or of opium and calcined quicksilver—burning the part affected with a hot iron—cauterizing the ear—applying oil of cloves or cinnamon with lint to the rotten eavity, have been recommended; if this disease returns from slight causes, and many of the teeth are in a state of decay, experience approves of washing the mouth every morning with warm urine—though indelicate, this remedy has it advocates—perhaps, using in the same manner lavender-water, spirits of wine, or brandy, properly diluted, may be considered as good a preservative.

If from the SECOND, it may be discovered by the teeth being in a found state--by the pain not confined to one or two teeth, but the whole jaw of that side being affected; and by the swelling of the gums, attended most commonly with a copious dis-

charge of faliva.

CURE. The gums in the beginning should be scarified, or leeches applied; also mustard plaisters behind the ears, long enough to occasion a redness—or, in more obstinate cases, blisters—the mouth should be washed with warm milk and water—and internally, diaphoretics, coupled with sedatives, (No. 4 to 10.) should be given; smoaking tobacco, chewing pellitory of Spain, ginger, sweet reed, pepper, &c. to cause a flux of saliva; applications of warm resinous plaisters, (No. 112.) with opium to the temples should be administered; stannels impregnated with the sumes of frankincense, amber, sugar, &c. applied warm to the cheek, and the mouth washed with spirits of wine and camphor.

If by these means the disease is not conquered, which generally happens to be the case, but the pains persist, and the gums increase to swell, an abscess will be most likely the consequence; under these circumstances a roasted sig should be kept upon the part to promote suppuration, which once accomplished, must at a proper time be opened, cleansed, and healed, by the applications of pledgets, dipped in a mixture of honey of roses and tincure

of myrrh.

If from a defluxion of any specific humour, we must proceed as in the ear-ach (348.) from similar causes, making use of those applications calculated to alleviate the local assections.

If from the THIRD, it generally yields to a course of antispasmodic and sedative medicines, such as we find advised in hyste-

ric affections.

If from the FOURTH, there is no remedy, particularly in habits full of blood, fo efficacious as bleeding.

§ 4. PAINS IN THE SIDE, OR PLEURODYNES,

from the Greek words pleuron, pleura, and odune, dolor, pain.

DESCRIPTION. This disease consists of pungent pain affeeting the chest on one side, attended with difficulty of breathing, but without any acute sever, by which it is distinguished from pleurify.

CAUSES. 1st, Too great fullness---2d, worms---3d, spasms---4th, adhesions---and 5th, flatulence; to the cure of which

must our remedies be adapted.

If it arises from the FIRST, it may be discovered by the pain not being deeply seated, but affecting only the intercostal muscles, eles, (P. 33.) the difficulty of breathing unattended with oppression : though accompanied with a cough, still the pulle is unaltered. nor is there any febrile heat; it generally originates from catching cold, or an obstruction of the menses.

CURE. This Nature often performs by a return of the menses, and indeed it will in healthful habits precede their ap-

pearance.

If from the FIRST, thin spare diet, gentle diaphoretics, (No. 1. 6 to 10.) and bleeding, are highly ferviceable; volatile liniments, (No. 107.) mustard plaisters; warm stannels impregnated with aromatics, or warm water; bags of hot falt, or bladders, applied to the fide, will expedite the cure -- but should they fail, local bleeding, by cupping, and blifters to the part affected, we must call in aid.

If from the SECOND, there generally attends an erratic fever, but not of the inflammatory clais---with a dry cough, pleuritic pain of the fide; and worms are fometimes evacuated -- in the breath there is a particular offenfive fmell -- but thefe happen chiefly in infants.

CURE. Though one bleeding may be fometimes necessary, if the fever runs high, to abate its violence, yet the chief dependence is on cathartics, (P. 171, 172, 173.) emetics, (No. 11, 12, 38.) and vermifuges, (197.) -- the purgatives though should be of the milder class.

If from the THIRD, it generally proceeds from fevere exercife, or strains; and is muscular --- for pains in the breast from fuch causes are attended with such sensibility of the part affected, that it cannot bear the touch, and feels as if the part had been bruifed .--- This though is feldom attended with a cough.

CURE. Bleeding .-- with emollient fomentations, (No. 111.) oily liniments, (No. 107.) and gentle purging, (No. 3. 19 to 24.)

If from the FOURTH, as it proceeds from the lungs adhering to the pleura, occasioned by preceding inflammation, it is often attended with a dry cough; fometimes with bloody fpits; febrile affections coming on after eating, without fweating; but with difficulty and shortness of breathing; great uneafiness in

lying on the fide affected, and pleuritic blood.

CURE. The cause is irremediable, alleviation of the oppresfive symptoms is all for which we can hope, - and this must be attended by bleeding, diluent drinks, oily emulfions, or lindufes, (No. 81 to 84.) emollient decoclions, (142.) gentle fedatives and diaphoretics, (No. 4 to 10.) nitrous medicines, (No. 2.) and a thin, spare diet-and all fuch remedies as take off fulness from the veffels, and render the circulating fluids thin.

If from the FIFTH, the pain in the fide is sudden, and acute,

foon vanishes, and resembles the cramp; though sometimes it will be so violent for some minutes as to become intolerable; the pulse is small and slow; there is no cough; but the pain is so troublesome that it impedes the breathing. This most commonly arises from cold, and chiefly affects the melancholy, hypochondriacal, and those who devote themselves to study.

CURE. Warm flannels, bladders filled with warm water, or bags of hot falt generally remove the complaint; and it will now and then be necessary to give some nervous tincture, (149,

15C.)

But these pains, or stitches, have generally indigestion for their cause; therefore, to prevent their return, we must proceed in the same manner as we advise for assisting the digestive organs in preserving their functions, see Dyspepsy, and increasing their power; in order to prevent an accumulation of offensive matter in the first passages; or crude chyle from being thrown into the mass of circulating stuids.

If pains of the fide thould arise from the action of any specific

actimony-we must proceed as before directed, (\$56.)

§ 5. PAINS OF THE STOMACH, CALLED GASTRODINIA.

from gafter, ventriculus, the stomach, and onune, dolor, pain.

These, according to the peculiarity of the affections, have been

differently denominated.

When there is an acute and conflant pain in the region of the stomach, unattended with fainting, as in the CARDIALGIA, or fever as in the GASTRITIS, (336.) often attended with a swelling

in the fromach, it is called GASTRODYNIA.

When there is an uneasy sensation belonging to the stomach, or epigastric region, attended with a degree of saintness, as if a swooning would come on, CARDIALGIA, from cardia, os ventriculi, the mouth of the stomach, and algos, dolor, pain—for this is supposed to be an affection of the upper orifice of the stomach.

When the principal symptom is a fewle of heat in the stomach and gullet, which sometimes arises into the sauces, unattended with any acute sever, Pyrosis, heart-burn, from pur, ignis, fire,

or its effect, heat.

However, we think in a practical view, they may all come under one head, particularly as the modes of treatment depend upon the specific causes from whence they proceed—we should say therefore,

PAIN OF THE STOMACH, OR GASTRODYNIA, is discoverable by an acute and constant pain, unattended with any febrile affections—sometimes affociated with a propensity to faintings, at others with a fense of heat there, and in the gullet arising now and then to the fauces—then called beart-burn, and not unfrequently with a considerable discharge of saliva from the mouth

-then flyled WATER BRASH, OF BLACK WATER.

CAUSES. 1st. Foulness from indigestion—2d, statulence—3d. bile—4th, poisons—5th, hard substances taken into the sto-mach—6th, inslexion of the lower part of the breast-bone, (called xyphoid, or ensistent cartilage, from its being pointed like a sword)—7th, gout, worms—8th, debility, ulcers, or excertations.

CURE. From confidering the causes in the first five, the indications are very nearly similar, except in the statulent, to evacuate the contents, and so to invigorate the stomach and intestines, that digestion not only may be properly promoted, but the remains, or what is indigestible, may be carried out of the machine

regularly by the increased power of the intestines.

If, therefore, it arifes from foulness of the Romach occasioned by indigestion, which passes not off scon by vomiting, or purging, but continues, the orifices of the flomach will be contracted, and preffing upon its contents, occasion severe pain, with a sense of weight, restraining free respiration; sometimes the pulse will be hard and quick; at others depressed, and slow-this will be the case where the complaint is recent, and proceeds merely from indigestion, and matter which the stomach contains being in a crude state only; but if it is viscid, acrid, bilious, putrid, or rancid, there will be a difagreeable tafte on the palate-foul tongue -unpleasant eructations, added to the uneasiness at the stomach, nausea, and load in the region above the navel, with a loss of appetite; besides, if the matter is acrid, there will be a heat in the stomach, the nature of which will be denoted by a taste in the mouth if any thing is thrown up, whether acid, fale, bitter, rancid, or oily ;-in cases where the matter is merely viscid, there is a kind of watery infipid taffe in the mouth only.

Which ever of these causes are prevalent, if the habit is costive, I clear the first passages with some opening medicine, (No.

108, 109.)

Afterwards wash the stomach well with warm water and oil—chamomile slower tea drank plentifully—or stimulate the top of the gullet with a feather, or prescribe an emetic, (No. 11, 12. 38.)—if great expedition is requisite, a few grains of white or blue vitriol, (No. 259.) should the cause be mere load from indigestion; these will be sufficient, giving for a little time a few drops of e-lixir of vitriol in cinnamon tea twice a day; but should this circumstance often occur, from the debility of the coats of the stomach, I have recourse to bitter stimulants and chalybeates, (No.

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61 to 65.) and recommend riding exercise, or sailing—also the use of some chalybeate water, particularly those of Bath, which contribute much to invigorate the tone of the stomach—but should the offending cause confist in the quality of the offending matter, such things must be prescribed as counteract their properties.

If it is of an acid nature, magnefia, abforbent earths, alkalines, or those medicines termed antacids, may be applied to (191)—if acrid, the stomach should be well washed with weak chicken broth, or warm water alone; then gentle aperients should be giv-

en, (No. 3. 22 to 24.) and occasionally persisted in.

If merely viscid, saponaceous medicines, (No. 109.) are use-

If rancid, or putrid, the antalkalines, particularly the mineral

acids, (190.)

And in all these cases the stomach should be invigorated with stimulant bitters, &c. advised (353.) and such mode of living prescribed as will prevent the generation of these offensive materials; avoiding such viands as are apt to turn acid, alkaline, viscid, or rancid; and perhaps the only thing we can depend upon for completing the cure, is a course of such mineral waters as upon trial best suit the constitution, which can only

from experiment be afcertained.

If the complaints arise from flatulence, it is caused by wind distending the stomach, and throwing its orifices into a contracted state, hence there is a violent tensive pain at the pit of the stomach, with dissiculty of breathing;—the pulse grows small and depressed—the extremities are cold, with great anxiety—and the body is often solicited to bend forwards, to promote the emission of wind; which always brings some alleviation—in this case the region above the navel can bear pressure with the hand, which it cannot do in instammation of the stomach, nor pain from some other causes.

CURE. In full fanguinary habits bleeding is adviseable;—and to remove costiveness glysters, (No. 25, 26.) which is very often an attendant; notwithstanding which, should it continue, opiates (No. 113.) are requisite; though, in slight cases, peppermint water will be sufficient—till the pain has totally ceased for a day or two, cathartics, even the milder ones, should be avoided. In order to prevent its return, the patient should abstain from all food difficult of digestion; all crude, slatulent, or leguminous vegetables;—the body should be kept open, and a course of bitters and chalybeates be persisted in for some time.

If from acrid bile the pain is extremely acute, accompanied with vomiting of green materials like a leak, or verdigreafe-

fometimes

fometimes yellow, with fuch tenderness above the navel, that the part cannot bear the least pressure—there is extreme debility, with great dejection of spirits; indeed the pain is sometimes

fo acute as to bring on convultions.

We must proceed as recommended (353.) where acrid materials were the cause; afterwards, when the stomach is perfectly cleansed, opiates must be taken internally, (152.) or by way of glyster; and perhaps it may first be necessary to premise bleeding, if the pain is extremely acute, to prevent inslammation.—

The bilious colic seems to have the same origin, the seat of the affection only differing—to that, therefore, we must refer.

In case of poison being the cause, we must proceed in the same manner as in inflammation of the stomach from the same source es—in gont or worms—such remedies are serviceable as are ad-

vifed in those particular diseases.

If from debility, we must proceed as directed (353:)

If from extraneous bodies, which are small, and blunt, we must have recourse to emetics—if long and pointed, the stomach should be kept distended with materials of the demulcent class, so that an opportunity may be given for them to pass through the lower orifice of the stomach, and along the course of the intestines; for if emetics are had recourse to, there is great danger of their getting across the upper orifice, or sticking in the passage, and most probably terminating fatally.

If from the inflexion of the lower part of the breast-bone, there is a constant pain of the stomach, attended with vomiting, loss of appetite; and from a continuance of the disease, a consumption, called ATROPHY—the sood and liquids are immediately rejected as soon as taken, and the pain continues to torment the

unhappy patient for years.

Cupping-glasses applied to the region above the navel, and

afterwards an aftringent plaister, have been advised.

A reduction of it, by the manual operation of a skilful surgeon, has been afferted by Bonetus—as for my own part, palliative remedies I think the only things to be depended upon—the
utility of which I have experienced. Keeping the stomach as
empty as possible, eating small portions of the most easily digestible food, of en in the day—refraining from all which are slatulent—taking very moderate exercise—avoiding costiveness, and,
in sine, so conducting the patient, that the stomach shall be but
slightly distended, is all that can be done in this case.

If from excoriations, or ulcerations of the stomach, or its lower orifice, it is the most obstinate and dreadful, for this may continue for many years—this is known by extreme increase of heat and pain on taking any thing acrid or hot—vomits here may be-

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come

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come detrimental, and dangerous in the extreme—in this case nothing can be done but giving all those things which are soft, mild, and sheathing; and what bids fairest for relief is living

folely upon a milk diet.

Besides what we have here enumerated, the heart-burn will be attended sometimes with an essua of clear lymph like saliva, sometimes tasteless, sometimes acrid like the taste of lime, and comes up at intervals in considerable quantity. This arises from a spasmodic contraction of the stomach, and increased action of vessels which secrete the thin sluids of the stomach and salivary glands, (20)

In this case, the rough acerb fruits and warming vegetables may be useful, as horse-radith, mustard, quince, sloes, medlars, &cc.—watery fruits and vegetables should be particularly avoided, as cherries, cucumbers, melons, and such like; and astring-

ents flightly cordial, (No. 61 to 65.) exhibited.

6. COLIC-COLICA,

fo called from the colon, (43.) one of the intestines, being confi-

dered as the feat of this complaint.

plaint of the inteffines, originating from a constriction, or obstruction in some part, or parts of them, brought on by some internal stimulus, attended with an acute burning pain of the abdomen, particularly running round the navel, disticulty of breathing, heart-burn, nausea, or vomiting of a bilious or vilcid matter, cossiveness, the appetite and digestion weakened—a distension and instation of the lower belly—thirst—high-coloured, or yellow urine, often an obstruction in making water—hiccough—fainting—delirium—convulsions, a rupture of the intestines, or mortification.

or biliary concretions, stopping the ductus communis choledochus, (36)---acrid bile---different kinds of foul offensive materials in the bowels---hardened fæces---worms---ruptures---remains of folid food---earthy or stony concretions lodged in the intestines---compression of them formed in any of the contiguous viscera---introsusception, or the running of one intestine into another, and there confined by some stricture---a thickening of the coats by scirrhus, cancer, &c.---particles of lead---unripe acid wines---or drinking too freely of things acerbly acid---or, in sine, whatever is possessed of the power of inducing the

CAUSE, proximate or immediate; which is a confiriction or obstruction in some part or parts of the alimentary canal, com-

COLIC. 357

monly the upper or lower orifice of the stomach, the lower portion of the duodenum, (42.) at the valve of the colon, (43.) and at its slexure which it turns up under the short ribs on the left side, (43.)

CHARACTERISTIC SIGNS. Pain of the abdomen, or lower belly, running round the navel, attended with vomiting

and costiveness.

CURE. The indications are, a removal of the confiriting or obstructing cause, by taking off the spasms, and evacuating the irritating matter, from whence they deduce their origin.

We have before treated of the inflammation of the bowels, between which, and the colic attended with local inflammatory fymptoms, some make a distinction; this may be systematically right, but cannot be of any practical utility; for the mode of cure must obviously be the same--though we must observe, that the colic with any acute sever, or quick pulse, heat of the whole body, sweat, &c. appears only to be a slight inflammation of the intestines from some local cause, not producing general inflammatory symptoms.

But the colic pain will sometimes be attended with great degree of flatulence, from the air in the bowels being rarefied, and expanding itself---hence pain, distension, costiveness, and rolling of wind in the lower belly---if the constriction of the bowels continue long, their motion downwards, called peristaltic, will

be inverted, and vomiting the confequence.

That it is from wind which occasions the strongest symptom, is very obvious, by the alleviation from pain by the discharge of it downwards; from the pain pursuing the whole tract of the colon, (43.) or running round the lower belly, appearing also to affect the stomach; but that affection subsiding by the passing down of wind, or its change of situation; on pressure by being mitigated rather than increased; and by not being attended by any remarkable thirst, or alteration of the pulse.

At other times, it will have for its affociate bilious vomiting, which is difficult to restrain; the patient will also have sometimes a number of bilious stools---when vomiting of green-colour-ed matter is the leading symptom, these attend heart-burn, loathing of food, hoarseness, hiccough, heat, thirst, and bitterness of the mouth-- the urine is high-coloured, and made in

fmall quantity.

When bilious stools, the pain attendant generally affects the whole intestines, particularly the duodenum, (42.)---the lower belly is neither tense nor hot, as in inflammation of the bowels ---the patient is affected with giddiness---the pulse is quick, though

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though neither hard nor tenfe --- and this disease is often succeed-

ed by the jaundice.

In all these complaints, where the pain is very acute, bleeding should be had recourse to, though no inflammation should actually exist, in full habits particularly, very early to prevent that symptom supervening.—Emollient oily glysters, (No. 25, 26.) warm somentations, friction, and chamomile tea, in slight and common cases, will subdue the complaint—but when more obstinate, chicken water should be drank plentifully; then glysters thrown up occasionally, and repeated—if the first does not answer, a second stronger, (No. 114.)—should these be inessications, oily purgatives may be tried alone, (No. 66, 99.) or mixed with Rochelle salt, and continued till a free evacuation is produced—castor oil is the most efficacious, as it often alleviates pain before it procures any evacuation, which it also does very quickly.

Sometimes liquids will be rejected, purgatives then in a folid form must be tried, (No. 115.) and continued every hour till the wished-for effect occurs—but should the attendant pain be extremely severe, with cathartics we may couple opiates; or sedative medicines may be given first, and a small time afterwards, purgatives—by these means sometimes the gentler purgatives will answer every purpose—bags filled with salt, oats, boiled

bran, or water made hot, may be applied to the belly.

But should there be any suspicion of inflammation, the stronger stimulant cathartics must be avoided—the Epsom salt solution, (No. 97.) is preserable to other purgatives; for, dissused in that way, it is always pleasant, and gentle in its operation.

We should always inquire in these cases, whether there be any rupture; for, from the strangulation of the intestines pushed out

into the fac externally, this complaint fometimes arises.

In order to stop the vomiting, the saline draught in a state of fermentation (No. 59.) should be tried—sedative glysters, (No. 116.) and plaisters of mithridate, may be applied to the stomach—leaves of common garden mint, boiled in port, and laid on the pit of the stomach and wrists, have been found sometimes supe-

rior to every other application.

Should there be any appearance of bile copiously discharged, fostening glysters, such as decoction of linseed and marsh-mallows, with oil, should be had recourse to—acidulated drinks also, with lemon or orange juice, vinegar, apple-water, &c. chicken-water, sedative emulsions, (No. 81. 83.) to which may be added thirty or forty drops of the tincture of opium, if the pain is violent—and the patient should be put into a warm bath, and remain in it so long as he can bear it without distress.

If

If this complaint, from a bilious cause, should return, which it is apt to do, a course of saponaceous and deobstruent medicines, (No. 117.) with Seltzer waters, or the water of Bath, or Aix la Chapelle, should be had recourse to, in hopes of perform-

ing a radical cure.

So difficult is it sometimes to procure a passage through the intestines, that when the gentler cathartics sail, the most powerful ought to be tried, (No. 108. 115.) to which may be added from half a grain to a grain of opium; or opiates may be given with liquid purges, No. 97. to 99) tobacco glysters, two drams of the leaves in decoction, or smoke, or things which act by their weight, have been recommended, quicksilver, two or three ounces, swallowed in a little broth every two or three hours, or leaden bullets; or taking the patient out of bed, and dashing cold water on his legs and seet, while he stands barefooted on a cold slag, has been attended with success.

A purging once procured, it should be continued some days by the use of cathartics, giving opiates at night, until the soreness and distension of the belly go off, and no hardened seces ap-

pear in the stools.

§ 7. NERVOUS COLIC.

In this complaint, contrary to the other, the vascular system seems but slightly, if at all affected; for the pain will continue extremely severe for sive or six days; sometimes for sourteen or sisteen; yet the pulse will not be quicker, or more disturbed than in health; nay, indeed, it has been sometimes slower.

It is called RACHIALGIA, from the Greek words rawis, spina dorsi, the spine of the back, and algos, dolor, pain; because the origin of the complaint has been attributed to an affection of the spinal marrow—also the colle or Poictiers, because there it is endemial, or peculiar to the country—Devonshire and West Indian colle, from its being common in those countries—painters, plumbers, potters, miners, from their being most subject to it, and saturnine colle, from its frequently affecting the makers of white lead, or the reception of the particles of lead into the habit.

DESCRIPTION. This complaint is attended with very fevere pains in the back and loins, as if it was in the center of the melentery, (46.) which do not increase on pressure—the navel is very often drawn inwards, and the intestines sometimes also to the spine; so much so, indeed, that the forcing up of gly-sters has been impracticable—the body is costive, and the complaint extremely obstinate; sometimes terminating in torpor, or

numbness

numbness of the hands, and palfy; at others, in chronical fixed

contractions of the limbs.

ceived into the habit—or the smoke from lead—or drinking water which runs over its ore—unripe acid wine—cyder—punch—and white wine not sufficiently fermented—eating or drinking too freely, or too frequently of things acerbly acid. The proximate or immediate, similar to that of the colic, (356.) and the characteristic signs also, if we add, the pain creeping more particularly to the loins and back, with a retraction of the navel, and sometimes of the intestines, inwards.

CURE. Before the complaint is confirmed, in the beginning, fucce's may be expected from the application of such glysters as were before prescribed, (No. 29. 26.) adding to them castor oil, and keeping the body open with emulsions of the same oil, (No. 66.) with which two or three ounces of tincture of senna may

be mixed.

Cold must be avoided, and a very light easily digestible diet

firially adhered to.

But in the more advanced stage, where there is generally a vomiting of green bile, the discharge is to be encouraged by drinking freely of thin weak broth—the bardened excrements evacuated by repeated glysters—an alleviation of pain procured by more than common doses of opium, (152.) and these repeated—the belly must be somented with warm somentations, (No. 85. 111.)—warm bathing partially used—and the umbilical region blisteracd.

I have fometimes found great benefit by opiated emulsions, (No. 118.) given till stools were procured freely; afterwards opiated antimonials, (No. 119.) occasionally giving the emulsion.

In Charlestown they adopt the following scheme:

First, they bleed, then give the glyster, (No. 114.) and repeat it two or three times, till a stool or more are procured—if this does not alleviate the pain, then an opiated glyster, (No. 116.) and the following morning exhibit the vitriolic mixture, (No. 120.)—the effects produced are generally a discharge of a great quantity of acrid bile, for the first four or five days, upwards and downwards, which by degrees grows less, leaving gradually only a slight nausea, a few yellow stools daily, and sometimes not any.

Broth, gruel, and panada, are allowed as diet—if fuch food is loathed, about the eighth day, bread and boiled chicken are allowed, with rum plentitully diluted as beverage—all fermented liquids and acids are prohibited, and so is four punch, for

fome

fome months; and the patients return to their common mode of

living by flow degrees.

If a pain in the stomach continues, which is sometimes the case, rhubarb is advised, and a plaister of galbanum applied to the stomach.

Though death by these means should be avoided, not unfrequently a palfy succeeds. This complaint has been relieved, sometimes cured, by rubbing the limbs and down the back along the spine, with Barbadoes tar and rum, or rock oil, (150.)—the Barbadoes tar, or balsam of Peru, taken internally, has been thought serviceable. (No. 121.)

But should these not succeed, change of climate, sea voyage, or the natural hot baths, are the only remedies from whence

fuccess is to be expected.

§ 8. PAIN OF THE LIVER, OR HEPATALGIA.

from epar, jecur, the liver, and algos, dolor, pain.

When pain affects the liver, as well as spleen, it is very often impossible to distinguish them from some of the species of colic, during the life of the patient; nay, indeed, some practitioners think it unnecessary, since they require the same mode of cure as the colic from a bilious cause, (358, &c)

But as these arise from different causes, it may not be useless to describe some of them; viz. those which arise from schirrbosity, or bard tumefaction of the liver, (33.)---obstructions of the
gall ducts, (35.) from very viscid bile—the gall bladder (35.) be-

ing also full of bile-and gall stones, so called.

When pain of the liver owes its origin to SCHIRRHOSITY, it

is attended with the following fymptoms:

DESCRIPTION. There is a tumor and hardness on the right side below the short ribs—sense of weight, with a dult and tensive pain, which is constant—the patient breathes with dissiculty, and has a dry cough—and, after eating moderately, there comes on a loathing, and sense of pressure on the stomach, with an increase of the dissiculty of breathing—besides, he cannot lie with ease on his left side—the countenance is yellowish, pale, and sallow—the urine often of an orange colour, and deposits a thick mucus sediment—these are generally the first appearances, which, if the complaint continues, as is too frequently the case, the feet are seized with a soft pasty swelling—the superior parts sall away—and the conclusion is, a dropsy of the belly, with a remittent sever.

When the cause is OBSTRUCTION OF THE GALL DUCTS, from biliary or viscid obstructions, the symptoms of a schirmous liv-

er, which come on in the beginning, attend but in a much flighter deg ee—besides, there is a slushing heat of the sace, with redness and heat coming on now and then in the palms of the hands—an irregular thirst—dryness, and bitter taste in the mouth—a dry cough—viscid saliva—loss of appetite—heart-burn—weariness and heaviness of the limbs—increase of pain on touching and pressing the lest side—and the habit most commonly costive—in this case the hardness on the right side is not so similar the former, nor are there any pasty swellings, or hec-

tic fymptoms.

When it arifes from GALL STONES, there is a deep-feated and excruciating pain on the right fide of the flomach, extending to the back, about the place where the ductus communis choledochus, or duct of the gall-bladder, (36.) is inferted into the duodenum, (42.) which remits and increases; the patient complains of fickness, and vomits much-the right fide is diffended with ' flatulence - the belly coffive - the excrements pale-coloured, fometimes white-the pulse is weaker, but searce at all quickened, unless the pains are very violent, and continue long-indeed, the violence of the pain being unattended with fever, and quickness of the pulse, is considered as the certain symptom of this difeafe-the patient, either in an erect posture, or lying on the left fide, feels much uneafinefs-hence becomes reffleisthere attend also difficulty of breathing-heart-burn, and some. times convultions -at first the urine is pale, afterwards yellow -and the skin and white of the eyes have a jaundice-like appearance—the pain at last vanishes suddenly, which is sometimes fucceeded by a loofenels, by which the gall stones are thrown out of the habit-and the yellownels wears gradually away.

CURE. Pain in the liver from schirrhofity, (361) is apt to attack gluttons—hard drinkers—those who lead indolent sluggish lives—and also arises from suppression of some hæmorrhages—bruises upon the right side—and very often in those afflicted with long-continued intermittent severs—and generally proves satal, when once completely formed—though, if attacked in the be-

ginning, it may be fometimes prevented.

Decoctions of vegetable aperients, with the more powerful attenuating gams, (No. 117.) joined with mercurials and cathartics, (160. 172. to 173.) are ferviceable; also grafs-roots, dandelion, endive, ammoniacum, myrrh, rhubarb, aloes, calomel, fmall doses, not to salivate; hemlock, (152. 154.) in all curable cases is very useful.

In CONSTITUTIONS confidered as dry and bilious, (60.) decoctions of the mild opening roots, goat's whey, and tartarized i-

ron. (139.)

In the cold and phlegmatic (60.) the mode here recommended will be proper when the complaint arises from obstructions of the biliary pores; but, in delicate and irritable habits, spasmodic affections will fometimes be the cause, sedatives and antispasmodics may then be joined with the aperients, afafætida, camphor, (149, 150.) or with opium, (152.) - and when, by thefe means, the bile has passed into the bowels, a course of bitters and seel may be necessary to complete the cure, (No. 61 to 64.) --- taking care always to keep the body open with fuch medicines as are best adapted to move the bile. (No. 108, 117.)

Bath water, and chalybeate fprings in general, are beneficial

and proper to prevent a relapfe.

When it arises from GALL STONES, we must endeavour to promote the expulsion by long perfeverance in the use of emollients, (142.) and gentle cathartics, (170, 171, 172.) (No. 66. 98, 99.) -- warm baths afterwards, occasionally repeated, in which a cathartic may be given --- this mode has proved fuccefsful --- vomits, and strong expiration, with glyslers of fresh urine, and fage infusion, have fortunately succeeded --- opiates thould be administered to alleviate the pain, joined with aperients; because they promote at the same time a relaxation of the duct --- ætherial spirit of turpentine, (No. 122.) has been recommended as a folvent.

In habits full of blood, in any of these complaints, bleeding may be had recourfe to, left inflammation should be the confe-

quence of the violence or long continuance of the pain.

Old people and women are most subject to this complaint--those who lead sedentary lives, drink much of strong ardent spirits, feed on vifcid, coarfe, and dry aliment, or are subject to the stone and gout.

In order to prevent a return of these complaints, gentle exercife, particularly riding on horseback, should be persevered in; light eafily digestible tood taken, avoiding all that is viscid.

6 9. PAIN OF THE SPLEEN, OR SPLENALGIA.

from fplen, the spleen, and algos, dolor, pain.

Here, as in the liver, the disease arises from schirrhosity and

obstruction.

DESCRIPTION. When from the FIRST, it is discoverable by a hard tumor occupying the feat of the spleen, (38.) and refembling its figure, attended with a fense of weight --- the tumor is sometimes wonderfully large---fucceeds a quartan intermittent, and often runs into a dropfy of the belly--- the complexion of those labouring under this complaint is of a lead colour--they

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they grow very thin—are oppressed with difficulty of breathing—and have a sense of weight, drawing the throat downwards towards the left side—they complain of oppression at the stomach after eating—at last their seet become pasty, and they sometimes have ulcers of the legs.

When from the SECOND, it does by no means resemble the figure of the spleen, neither is it hard or circumscribed—the pain is more acute; which, on the scirrhus being formed, be-

comes dull-attended with a fenfe of greater weight.

In this there is perceived a load on the left fide, afterwards fome acute pain, particularly raised in running and walking—the colour of the face changes to one more livid—there is an universal lassitude—difficulty of breathing from exercise—sometimes a dry cough—now and then a palpitation of the heart—eruptions break out—the patients become hypochondriac—have ravenous appetites, &c.—and the disease is extremely obfinate.

CURE. The mode is fimilar to what has been delivered on

the pain of the liver from obstruction. (362.)

CHARACTERISTIC GENERAL SIGNS. Those of the fpecific causes must be recollected from the particular descriptions—the general ones are, an uneasy, dull, tensive sensation, on the right or lest, according whether the liver or spleen is affected; being free from that species of tever which attends in-stammations of those organs.

§ 10. PAIN IN THE KIDNEYS AND URETERS, OR NEPHRAL-

from nepbron, ren, kidneys, and algos, dolor, pain.

This disease proceeds either from small sand-like appearances, or from a stony substance affecting the kidneys or ureters, (48. 50.)—in the first case it is called GRAVEL, in the last STONE IN THE KIDNEYS; both which we shall treat under one head, as the mode of treatment of the former is similar to the more gentle method used in the latter.

DESCRIPTION. The gravel is most common to old men, the studious and sedentary, and those whose trades oblige them to sit long confined in one posture, as coblers, weavers, watchmakers, &c.—seldom affects the kidneys, but much more commonly the ureters and urethra, (54.) occasioning oftentimes very great pain which abating, small stones like lentil-seed, but rough, red, and very hard, are passed at that time with the urine—these seldom stick in their passage, and are scarcely dissolvable by any known lithontriptic. (198.)

When

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When there is a stone in the kidney, there is generally an excruciating pain in the loins, fixed and permanent, on that side where the stone lodges—the patients complain of heat—the body is costive—and the symptoms are aggravated after eating—when it falls into the ureters, the pain is increased, and extends along their course obliquely in the belly over the hip towards the bladder—men have at this time a painful affection, or drawing up of testicle, women a numbness of the thigh and leg—naufea and vomiting frequently occur—the urine is in part suppressed, and puts on various appearances; at first it is watery, afterwards more copious and turpid; frequently hot, and often bloody, or purulent—a difficulty of making water, or rather a total suppression, comes on—great drowsiness—inflammation—ulceration—and consumption.

But it must be observed, that a stone may be lodged in the kidney without producing any uneasy sensation, unless moved by a hot regimen, or mode of living, violent passions, strong exercise, or jolting in a carriage over rough stony pavements.

CAUSES. The remote or inducing are, luxurious living, with weak digestive powers—gout and rheumatism—old age—fedentary life—keeping much in bed, or in an horizontal position—drinking wine loaded with tartar, or water full of earthy or sandy matter—peculiarity in the constitution to form this stony substance—or an hereditary taint. The proximate or immediate need no specification.

CHARACTERISTIC SIGNS. A fixed pain in the region of the kidneys and ureters, unattended with any acute fever, fuch

as accompanies the inflammation of these parts.

CURE. The indications are, to abate the uneafy fymptoms, by taking off the spasmodic affection of, sheathing and relaxing the parts, and facilitating the progress of the offending cause, that it may be evacuated—which purposes will be promoted by bleeding, emollient and demulcent decoctions drank plentifully, sedatives, chiefly opiates, oily emulsions, and mild aperients, &c. (See Inflammation of the Kidneys. 243.)

All heating or stimulating diuretics are to be avoided, particularly where calculi are fixed or very obstinate to remove; for they are apt to aggravate the painful sensations, and bring on inflammation—insusion of wild carrot-seed, (No. 123.) has been known to give considerable ease—a solution of kali impregnated with fixed air, (199.) given two or three times a day, and carried as far as the stomach will bear it, is in this case peculiarly applicable—the leaves of the bear's wortle berry, (139.) is here also beneficial—from decoction of raw cossee, twelve berries boiled in a quart of water till it becomes of a deep greenish colour, to

eight or ten ounces, with twenty drops of æthereal spirit of nitre, twice a day for two months, great relief has been derived.

Still, foap leys, (199 . taken in milk or veal broth, or foap and lime water, (199) are confidered either as perfect folvents, or rendering the rugged furfaces and sharp points less capable of injuring the sensible membranes, where these hard bodies pass

through or lodge.

But sometimes a small stone will pass through the ureters into the bladder, and from thence makes its exit: here then the disease terminates in the most favourable manner; but if it should be too large, it remains there, forming a basis, called Nucleus, for a larger stone---indeed, any hard substance lying in the bladder will give rise to this complaint in constitutions replete with stony matter---in this case it is termed,

STONE IN THE BLADDER, OF LITHIASIS,

from lithon, lapis, stone.

DESCRIPTION. In this disease, there is generally a pain in the bladder, especially about its neck, and oftentimes bloody urine after riding on horseback, on being jolted much in a carriage, a sense of weight in the perineum, or part immediately before the anus, with an itching of the glans penis, (55.) a slimy sediment in the urine, and frequent stoppages in making water.

But if the stone should be smooth, of a round form, it may lie a considerable time before it is perceptible to the patient, till by its increase of weight, acquired by accession of fresh matter, it creates uneasy sensations—but should it be angular, or have a rugged surface, yet small in size, it generally occasions pain and bloody urine, or a discharge of slimy sluid, with a fruitless effort to go to stool, called tenesmus, and dissipulty of making water.

All these symptoms though are fallacious--examining therefore with the instrument called a STAFF, used by surgeons for discovering the stone in the bladder, is chiefly to be depended apon; and I believe, when one is found too large to pass, cutting is the only remedy, which must be committed to the hands of a skilful and judicious operator.

Of the cure by internal remedies, we must refer to what has been said above in the cure for pain in the kidney and ureters,

proceeding from calculi there.

In this place may be inferted those complaints where the uri-

mary passages are affected, and properly divided into three, according to the nature of the affection --- as

I. A SUPPRESSION OR RETENTION OF URINE,

named Ischuria, from i/ko, cohibeo, to restrain, and ouron, uri-na, urine.

2. STRANGURY --- STRANGURIA,

from franx, gutta, drop, and aureo, to make water---when water is made by drops as it were, and there is a perpetual propenfity to make it.

3. DYSURY ... DYSURIA,

from dus, infeliciter, painfully, and ource, when the strangury is

attended with heat, or a fense of scalding.

The FIRST may arise from inflammation of the kidneys, or a flone, and becomes a symptom, and then must be cured as advised in cases of nephritis, (342) and nephralgia, (364) but sometimes it derives its origin from mucus thrown into the vessels of the kidneys, (48.) in such a degree as to hinder almost the total secretion of urine.

DESCRIPTION. In this case there is generally a small quantity of turbid uvine made, without any pain of the region below the navel, or swelling over the bone at the lower part of the belly, called os pubis, or any signs of the stone or gravel but a dull, heavy pain over the loins; and this happens in confiitutions which are generally phlegmatic, (60.) mucous discases having preceded, and urine before made loaded with mucus.

CURE. Stimulating diuretics, (175, 176.) fuch as mustard, horse radish, with squills; also soap, (177.) in order to clear away the mucus, free the urinary vessels, leave at liberty and solicit the secretory vessels of the kidneys to perform their office; for in these cases we find little or no urine comes into the bladder. We must observe, that when the suppression is total, there can be little or no hope of giving relief; it is only in cases where it is partial, that our expectations with success can be flattered.

When the urine is retained in the bladder, we observe a swelling of the lowest part of the belly above the bone situated at the bottom, attended with pain, and often a sense of sulness, and pressure at the neck of the bladder. CURE. Whatever the cause, the mode of relief is similar; if the pain is great, blood should be taken away, and teribinthinate glysters, (No. 124.) thrown up; somentations (No. 85. 111.) should be used to the belly; the patient should be kept persectly quiet; the CATHETER, or an instrument to draw off the urine, be as soon as possible made use of; and should the retention return in eight or twelve hours, the operation must be repeated, and this occasionally till the cause creating it be removed, which may be various, and depend on other diseases of the machine—as paralytic affection of the bladder---swelling of the piles—indurated excrements—fungus swellings in the urethra, (p. 54.) --tumor of the prostrate gland, (p. 54.) by steries, ulcers, scirrbus, or cancer of the bladder---pregnancy; for the cure of which we must apply to these things which are advised in such of these complaints as appear to be the acting cause.

In THE SECOND AND THIRD DIVISION we find water paffes

from the bladder but with painful fensations.

DESCRIPTION. Besides the effort to unload the bladder by passing urine by drops, and with great pain, and sometimes scalding, the stimulus, after a small quantity of water has been made, goes off, and soon returns; the severish assections are increased, the skin grows hot, the belly swells, at the lower part, particularly the penis, and the part running to the anus, appear full; the body is in general costive; and there are frequent efforts to go to stool; there is also a perceptible pain in the back and lower part of the belly, an uneasiness at the pit of the stomach; and vomiting sometimes attend.

CAUSES. Those which are considered the remote or inducing are said to be—an acrimonious disposition of the humours; cantharides internally taken; the application of blisters; and matter carried from the kidneys, or translated from any other of the ulcerated viscera; strongly stimulating injections, or venereal ulcers of the urethra, (54.) inducing inflammation, exposing the anus to the cold air, particularly during the operation of smart cathartics; an inflammation of the rectum, (45.)

or suppression of the piles.

The proximate, or imme diate, an inflammation of the fphincler (51.) of the bladder, or a deprivation of the mucus which defends it from feeling the irritating power of the urine, as it passes through it.

This disease is by no means dangerous, and terminates in the same manner as do other local inflammations, though extremely

rarely in mortification.

CURE. This requires no mode of treatment different from other local inflammations, particularly that of the bladder, (344-) only

only we should observe great caution is necessary in attempting to pass the catheter, lest we should increase the irritation; and indeed should that operation be impracticable, a puncture may be made into the bladder in case of great emergency, through the perineum, the part which lays forwards before the anus; some recommend it over the pubis; but the former is much the more eligible; in these cases glysters of warm oil, and tincture of opium, are highly beneficial.

6. RHEUMATISM—RHEUMATISMUS,

from reo, fluo, to flow down, or upon, as the ancients confidered it to arise from a defluxion of some humour on the particular part affected. There are two other complaints properly come

under this head, called

HIP GOUT, ISCHIATICA, or SCIATICA, and the LUMBAGO, deriving their names from the parts they affect; the former attacking the hip, ISCHIUM, and the latter the loins, LUMBI,—hence their derivations—hence the rheumatism is considered as general and local; and it is also attended with febrile affections, frequently—fometimes not—hence styled acute and chronic.

DESCRIPTION. When it affects the habit generally, it begins with a coldness and shivering, which are succeeded by heat, restlesshess, coldness, and heaviness of the limbs; the body is commonly costive, the patient complains of thirst, and the

pulse is quick and hard.

To these succeed in a little time acute pain, attacking particularly the large joints, tendons, and their expansions running along the course of the muscles; which pain is increased on motion, often changing its situation, and where it sixes there comes on swelling and inflammation; it sometimes attacks the head and stomach, and very often all the febrile symptoms will go off, and leave the pain remaining. The blood taken away has the appearance of that of pleuritic patients; this is called the acute Rheumatism; but when it is not attended with sebrile affections, the pain slies from one part to another, giving a sense of stiffness to the muscular or ligamentous parts, and is seldom attended with any swelling.

When the pain recedes internally, there arises much uneasi-

nels and inward thiffnels, which on re-appearing go off.

WHEN IT ATTACKS THE HIP, it impedes the free motion of the leg, occasioning pain and an halting in walking, or dragging of the leg; the pain often descends from the hip along the thigh and leg to the feet; and it is sometimes attended with a

3 A

violent

violent fever; in this case the seat of the affection is sometimes in the joint of the hip, and at others in the nerve called sciatic.

WHEN IT SEIZES THE LOINS—In them there is a very acute pain, with great difficulty in raising the body into an erect posture; fometimes the pain descends to the lower part of the back, to the thigh-joint, or through the fides towards the bladder—here the muscles of the loins, or the ligaments of the vertebræ, are the seat.

CAUSES. The remote, or inducing, are, an exposure to cold suddenly whilst hot, too great loss of blood, or severe purging, hard drinking, immoderate venery, indigestion, a vitiated state of the sluids from other diseases, a too great fullness from evacuations suppressed, and often from quick changes of the weather. The lumbago will also be brought on by lifting too heavy weights, in habits disposed to rheumatic affections.

The proximate, or immediate, have been supposed to be a viscid acrimonious serum obstructing the serous and lymphatic vesfels of the muscles, but particularly of the membranes, or ligaments; or rather a peculiar acrimony, electively affecting the larger joints, membranes, and tendons of the muscles.

CHARACTERISTIC SIGNS. This difease arises from an external, and, for the most part, from an evident cause, attended with pain about the joints, following the course of the muscles, affecting the knees and the larger joints rather than those of the bands and feet; sometimes the hip, muscles, and vertebræ of the loins: frequently having febrile affections for its associate, sometimes not.

CURE. When it is attended with febrile symptoms, we must have recourse to bleeding, and that repeated according to the strength of the patient, and violence of the inslammatory affection; and two drams of nitre dissolved in a quart of water gruel sweetened with honey, and acidulated with lemon juice, forms not an inefficacious remedy, giving a tea cupful every second hour, throwing up occasionally glysters, or giving occasionally cooling purges, to keep the body open, (P. 171, 172. or No. 3. 22, 23, 24.)—to the nitre may be added one-eighth of a grain of tartarised antimony in each dose, or to the purgatives.

Or the antimonial nitrated powder, (No. 125.) with the volatile faline mixture, may be given every five or fix hours, (No. 126.) adding two or three grains of the powder to the night dole.

Should these not keep the body open, glysters may be given, or aperients added to the powder or mixture.

These generally abate the febrile symptoms, mitigate the pain,

and evacuate the acrimony, by keeping up a continued, gentle

perspiration.

When the disease is on the decline, the rapidity of the sever and the violence of the pain are abated, not before—steams of warm water may be conveyed to the parts affected, or friction if the parts can bear it, or liniment of water of acetated ammonia, and oil may be rubbed warm into, and a flannel worn over the part.

After sufficient bleeding, and emptying the intestines, partial or general warm baths have been found to give great relief; and our patients should use the same sort of diet as recommended in inflammatory sever, (212. to 214.) but when all the sebrile symptoms begin to abate, mustard whey, (No. 127.) will be an useful

drink.

Now from experience we find, though the crifis of this complaint happens either by fweat, or urine dropping a yellow fediment, loofeness, or depositing an humor upon the exterior surface, particularly the legs—still it is best conveyed out of the machine by the pores of the skin—hence a course of diaphoretics are advised, and the patient ordered to lie in blankets in prefer-

ence to linen, in order to add to their efficacy.

When the pain goes off, and the fever subsides, the diet should be more substantial; and with intent to clear the constitution as perfectly as possible from the remains of the offending cause, a decoction should be taken of diaphoretic woods, (No. 88.) or the compound decoction of sarsaparilla—should ulcers happen upon the legs; they should not be dried up too soon, for fear of imprudently repelling the humour to some internal part, which might prove more dangerous.

But sometimes, after the sebrile affections are totally gone off, the pain still continues, and here we must labour to attenuate and throw out the acrimony which creates the painful affections, by a course of gentle diaphoretics—such as compound powder of ipecacuanha—or antimonials (230.) joined with opiates, in order that rest may be procured, and the patient's strength sup-

ported.

Stimulants are here also required, as tincture of guaiac, 30 or 40 drops upon sugar, and mixed with peppermint water, three or four times a day, or gum guaiac, made into a draught, with 30 or 40 drops of some volatile spirit, (No. 128.) or gum guaiac, and quick lime, equal quantities, well rubbed together—then lime water poured on, and when it has stood some time, decant the limpid part—to this add a few drops of any volatile spirit and it will mix with water without separation—sometimes there will appear an intermission in the pains; and where, at the on-

fet of the disease, there have been profuse discharges by the skin, with a copious deposition in the urine;—bark 193, (194.) is highly serviceable, united with volatile tincture of guaracum, (180) and has been known to relieve very obstinate cases, par-

ticularly in debilitated habits.

The Chronic Rheumatism chiefly affects old men, or those who by indifcretions have so weakened their constitutions, that they are reduced to that standard. The attack of this is not so general, seldom affecting so many places at once; nor do the parts appear so red or swelled—it returns at intervals, without any sebrile affections almost, or sweat—and there are sometimes tumors of the colour of the skin, or very slightly red, rising in different parts, rather round, of the size of a nut, affecting chiefly those of full habits, and women who have nor their menfes.

In full habits bleeding may be had recourse to once-blisters and sudorifics are more useful-repeated purging expedites the

cure.

Mercurials, joined with diophorets (No. 87.) are extremely efficacious—and also the addition of gum guaiacum to purgatives, (No. 19, 20.)—guaiacum given from day to day, so as to procure two or three stools every day, has been often attended with success; or on the nights previous to giving a purge (No. 19, 20 21.) in the morning, calomel joined with guaiacum has been of great use, (No. 129.)—when the pain is excruciating, opiates (151.) may be given at night.

Volatiles, and opiates externally applied, are often attended with falutary effects, (No. 107.) or firmulating plaister, (No. 130.) fufficient to create proper irritation over the part affect.

ed.

Oil of turpentine has been spoken of as an internal as well as

external remedy, (No. 122.)

Electricity has been recommended for 15 days, a quarter of an hour each day, drawing the sparks through the parts affected,

and giving a few general shocks.

In order to prevent relapses, a flannel shirt should be wornnext to the skin; compound decoction of saraparilla with milk taken for a month; now and then the warm bath should be had recourse

to, and at the proper feafon fea-bathing.

Some of these modes will be sufficient in common cases; but in such as are more obstinate, change of climate is very often requisite, and also the natural hot baths—or in persons whose vascular system acts with freedom, nothing is more conducive to prevent its return than cold bathing.

In those rheumatic complaints called SCIATICA, or HIP GOUT,

and Lumbago, as they are of acute or chronic kind, fo must they be treated in the same manner as we have specified in general rheumatism—only in the hip-gout, when the disease has been obstinate, an issue cut above, or below the knee, has been of great service, as also blistering the thigh.

§ 13. GOUT,

fo called from the French word goutte, an acrid defluxion—in medical language it is called ARTHRITIS by many, from antibron, articulus, a joint, because it affects the joints—by some Podagra, from pous, pes, the seet, and agra, captura, seizure, because they consider the seet as its natural seat—and though it is thought, that there is truly only one species, yet, according to the different appearances it puts on, it has been distinguished—all which may very properly come under two heads—the REGULAR, or FIXED—the IRREGULAR, or UNCERTAIN, Gout, respecting the seat it occupies—both these species, which we shall proceed to describe, appear to depend upon the strength or weakness of the whole, or some part or parts of the constitution.

DESCRIPTION. Before the fit comes on, the patients most commonly experience a general lassitude and weariness--are low-spirited--complain of a load and fullness of the stomach after eating--are squeamish very often, and throw up wind--the belly is distended with slatulence--the habit costive, the sweating or moisture of the feet goes off, and the veins there appear full.

After these an acute pain for the most part seizes the joint of the great toe, accompanied with a sense of coldness, as if cold water was poured down-slight shiverings, and other sebrile assections-a shooting, gnawing, pungent, or burning pain, seizes the small bones of the foot, or they seel as if squeezed strongly with the hand—in about twenty four hours, the part begins to look red, and swell---a gentle breathing sweat comes on, and then the pain begins to decrease, and the sever disappears.

In the morning patients find themselves better, in the evening worse, because at that time the sit comes on-during the sit men become irascible, and are easily irritated-they have little or no appetite-the body is costive; and a painful sensation of the part accompanies the whole sit-on the sirst days the urine is high-coloured, and discovers a brick-coloured or red sandy sediment.

In proportion as the constitution is stronger or weaker, so does the sit go off quicker or slower; at which time an intoler-

able itching is perceived between the toes, and the fearf skin falls off in scales like bran,--the joints feel stiff as if they were covered with plaisters and dry, and a period is put to the disease

for fome time--which again returns.

This is the case of the gout in its sirst attacks, so long as the constitution preserves a proper degree of power; but in process of time, as the habit becomes weaker, the complaint takes deeper root, the disease seizes the hands, wrists, elbows, knees, and other parts-hard chalky tumours are formed, and the distorted limbs lose all motion. At this period the sits continue almost the whole year, and the afflicted make large quantities of pale urine; they are also tormented with piles, putrid eructations, spassed affections, stony concretions in the kidneys, gravelly

complaints, and lofe all appetite.

The strength of the constitution still failing more and more, till it becomes almost exhausted, the gouty matter, incapable of being thrown out upon the extremities, affects the internal parts of the system, and produces complaints peculiar to those parts from the stimulus it there occasions—fometimes upon the head, producing apoplexy, lethargy, palfy, delirium, tremors, and universal convulsions—fometimes upon the membranes of the chest occasioning pleurisy—or on the stomach and intestines, whence internal uneatiness and oppression, sickness, vomiting, looseness—during the continuance of these affections, there is no pain in any part, otherwise it generally exerts itself—at length, the constitution being worn out, and having lost all its power, the vital parts, as the brain, lungs, and heart, begin to be depressed, and the machine salls a facrifice to its own weakness, and the violence of the morbid affection.

This description comprehends the gout in both its forms o regularity or irregularity---it being considered THE REGULAR GOUT, when it fixes upon the feet, and is attended with a sufficient strong inflammation, continuing for some days, and gradual ly going off, with swelling, itching, and peeling of the scarf-skin

in form of fcales, like bran.

THE IRREGULAR, when it attacks other places, and is attended with internal debility of the stomach, or other parts; or has slightly affected the joints, and receded; or has not at tacked them, but produces inslammation on some internal

CAUSES. The remote or inducing are, full, free, luxurious living--hard drinking, particularly acid and rough wines—in dolence, or the omission of accustomary exercise—relaxed, for and full habit--immoderate venery in youth---too sudden changing from distilled liquors or spirits, to those which are this

It feldom attacks boys, castratas, or women, except viragos, or such as have passed the time of having the menses; but most commonly men in the decline of life, those of lively imaginations, the studious living a fedentary life, and sitting up late at night.

The proximate or immediate CAUSE is, a peculiar humour electively fixing in common upon the small joints, or rather thin ligaments; or, perhaps, upon the membranous coverings of the nerves, there situated; or sometimes in other parts of the ma-

chine, particularly those which are the most irritable.

GHARACTERISTIC SIGNS. A difease accruing without any evident external cause; but having, for the most part, an unaccustomary affection of the stomach preceding the attack, and also febrile symptoms—a pain in the joints, and that most frequently of the great toe, but certainly attacking chiefly the joints of the hands and feet—this pain returns at intervals, and often alternates with affections of the stomach and other internal parts.

Though we allow of two species of the gout, yet it is pretty obvious, that they depend only upon the different proportions of strength in the constitution; --- and this will regulate our con-

duct in the mode of

CURE; and here are indicated a separation and expulsion of the morbid matter, and a prevention of its return, or capability of reproducing its morbid effects--in all which we must be governed by the constitution. When the gout proceeds regularly, and fixes in the feet, patience and warm slannels are recommended---and the free use of wine allowed, under the idea of making the deposition of the gouty matter more complete, and assisting

the local expulsion.

However, in the most simple and regular cases, I do not recommend a total prohibition of all medical assistance; nor can I
think that large draughts of wine, and loads of slannel, can compensate for the loss of judicious advice; for to me, who frequently have experienced the gout, it is clear, that some things may
be done without any risque of present danger, or future mischief, which render the fit oftentimes less violent, shorten its
continuance, and obviate the consequent debility; for I am persuaded, we suffer more from constitutional desects,—the effects
of symptoms,—and mismanagement, than from the nature of the
disease itself, particularly in those who labour under recent attacks—similar instances we have seen in the treatment of other
lifeases; as in the small-pox, where warmth and cordials were
nisituted for the same purpose, of throwing off the morbid mat-

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ter by which the fever was too highly increased, and destruction

too often, and danger always the confequence.

Let us see who are the men most subject to this malady-hard drinkers, particularly wine-bibbers-men of voracious appetites, who feed on high-seasoned dishes---venereal devotees---men of lively imaginations, and those addicted to severe study, late hours, and good living; and, in short, most of those who, by various means, weaken their digestive powers--if these have the gout in their habit, they seldom escape; if not, commonly acquire it from their own indiscretion.

In men, before they fall into the gout, it generally happens, that their stomach and bowels are loaded with crude materials, viscid humours creeping through the mesentery and other viscera--local fullness in the liver--spleen or sweetbread; --impeded, or irregular evacuations by stool, urine, or perspiration--hence

often an aerid flate of fluids.

Now, in such constitutions, previous to the attack of the gout, we find a number of symptoms announcing its approach, such as statulence, load at the stomach, and nausea, or sickness.

Here it would be proper to admister an emetic, (No. 11, 12, 38.) which some gentle purgative should succeed, particularly of the aloetic class, (No. 108.) and this last given two or three times, at proper intervals; after which, stomachic bitters, joined with mild chalybeates, (No. 63 to 65.) or with some of the warm diuretics, (175, 176.) will be useful-these will suffice to the first stage; for I consider the affection of the stomach as that state of the disease; besides, if the patient be of a full habit, and strong, has a good pulse, bleeding may very properly precede this cause.

The mode of living should be moderate, with respect to eating, drinking, and exercise-the slesh of young animals allowed only once a day-vegetables stewed in their own liquid, o with very small portions of water-the beverage, small rum brandy, or geneva and water-and the exercise chiefly on horse back.

By these means the stomach and bowels are unloaded, and kep free from accumulations of crude and offensive sæces; viscera obstructions are opened; the sluids made to circulate through the different viscera; the mass of blood pushed forwards to the extreme parts, and surface of the body; the liver, stomach, kid neys, and bowels evacuate their contents in proper proportion from the lungs, and through pores of the skin, is thrown out due quantity of perspirable matter, and noxious exhalations the powers of digestion are increased; and, in sine, the who

machine put into as healthful a flate as the nature of the case

will permit.

Prepared, therefore, for the second or painful stage, if the method above pursued should not prevent its accession, it will come on less violently, continue a shorter time, and leave behind it less debility, from the constitution being freed from any super-shous load, the vascular and nervous system rendered stronger, and the shuids being put in a mild state-however, even here something may be done to mitigate any degree of violence which may occur from constitutional peculiarity, with respect to pain and febrile symptoms, which last are now to be considered only symptomatic.

Diluent cordials, wine and water, fage, balm or mint tea, may be freely drank, and antifpasmodics, diaphoretics, and antimonials, joined with camphor and volatiles, (No. 131.) may be taken-if the pain should be excessive, not otherwise, gentle opiates may be added-æthereal spirit of vitriol, water of acetated amamonia, with aromatic confection, and æthereal spirit of nitre; these will promote perspiration, and increase the urinary dis-

charge.

The body should also be kept open with small doses of rhubarb, castor oil, manna, lenitive electuary, and glysters occasi-

onally, if necessary.

The diet should be broths-gruels with a little wine, sago, salop, arrow-root, tapioca, in which may be put wine, or a little brandy-fresh water sish, eels and salmon excepted-chicken, rabbit, veal, lamb, small birds, and such like may be allowed, but sparingly; they had better be deferred, at least a free use of them, till the decline of the sit;

As for external applications, during the fit, by whatever authority they have been recommended, I am averse to their administration, because the pain seems rather an instrument of nature for the full completion of depositing the whole of the gouty matter, creative of the fit, in the extremities--it should be
mitigated, if violent, by the means above described.

Indeed, if the pain is moderate, as well as the febrile fymptoms, and the bowels as well as kidneys perform their functions fully and regularly, little is necessary to be done, till the decline of the fit, and then diaphoretics at night are use-

ful.

After the fit is over, a gentle dose or two of physic may be taken, and a little stomachic draught once a day for a week or ten days; and should the joints affected remain weak, we may early use the slesh brush, or slannels impregnated with frankencense, amber, or myrrh, by way of friction—however painful it

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may be, I would advise using the joint affected during the fit repeatedly; for that prevents the too great relaxation of the ligaments from the flux and stagnation of sluids in these vessels.

By these means may this painful disease be mitigated, or the painful consequences often subdued, and always made less severe; but if we would attempt the cure, we must try that in the periods where there is some long intermissions; and this by the preventive plan, (62.97.) to which regimen there pointed out, stomachic and aromatic bitters should be occasionally taken, such as quassia wood, (175.) or bark mixed with steel, (No. 61 to 65.) chalybeate waters, particularly those of Bath—the skin should be kept clean, and a stannel shirt worn next to it—a dose of tincture of rhubarb, (173.) should be taken twice a day;—and, in sine, such things occasionally applied to, as will contribute to strengthen the stomach and digestive powers, keep up a free state of perspiration, and prevent the body from being costive.

Should these things sail, our last resort must be a milk diet, and that constantly persisted in; though this will only suit such as have a pretty strong stamina: the weak and very debilitated

would probably fall a facrifice to the change.

When the GOUT assumes its IRREGULAR FORM, we conclude it is owing to the weakened state of the moving powers, not being able to throw the offending matter to the extremities, or, when there deposited, of not keeping it in that situation—and hence the head, lungs, stomach, kidneys, bladder, come to be assected, because they possess more sensibility, and are more irritable than other of the internal parts—however, when it sixes on these parts, it is extremely hazardous, in proportion to its degree of violence—we, therefore, as expeditiously as we can, should labour to throw it out of the habit into the extremities, particularly into the seet.

Now, if the HEAD and LUNGS are affected, and the habit full of blood, we must bleed in proportion to the strength and full-ness--afterwards apply blisters to the inside of the thighs and legs--bathe the feet in decoctions of horse-raddish and bruised mustard-seed--some advise wine, or some other spirituous mensurum--knapisms (No. 30.) may also be applied to the feet--and we should give volatile camphorated medicines, (No. 33. 35 to 37) and with cordials, (No. 13 to 18. 28 to 30.) to increase the motion of the blood, at the same time that it is soli-

cited to the extreme parts.

But should the STOMACH be the seat, vomiting will often be fo violent, as to reject almost every thing which is taken; in order to allay this, we must depend upon cordials, as above, uni-

ted with opiates; and occasionally give opiates themselves, as twenty or thirty drops, or more, of tincture of opium, at proper intervals---and hot wine, or rather brandy, with spices and garlic, should be copiously administered---and strong aromatic diaphoretics, as snake-root, camphor, volatile salts, &c. (178,

Which remedies may be applied if the BOWELS should be attacked, and in consequence a looseness supervene, then to them we must add some astringents, as extract of logwood, (140.) tincture of catechu, (139.) columbo root, in powder, ten grains, in tincture, two drams—a drop or two of the compound water of acitated litharge, or ley of iron, called lixivium martis, given at proper intervals, have been essicacious, when other applications have failed.

Indeed, in every species of the irregular gout, whatever internal parts it attacks, the same modes of proceeding are necessary, as pointed out here in general, increasing the force of the circulating powers, and soliciting a free flow of them to the extremities, endeavouring, at the same time, to alleviate the oppressive symptoms peculiar to the affected part; as when it attacks the kidneys, we have recourse to emollient decoctions and

glysters, with warm baths, &c.

179, 180.)

With regard to the mode of living to be observed by gouty patients, or those in whose constitutions there is much of that matter creative of the disease, TEMPERANCE has always been advised—on which I shall beg leave to observe, that by this term is meant such a mode of living as is best adapted to the constitution; for there may be as much intemperate mischief to some habit by drinking too large a quantity of water as of wine; and, indeed, in every species of abstinence, were pursued to such extremities, as weaken rather than properly support the powers of nature.

SECTION XV.

MORBID EVACUATIONS.

TE must now proceed to treat of those disorders whose most striking symptom is some evacuation, which is either not natural, exceeds the limits, or returns at more frequent

periods, than what is usual in a flate of health.

These may be properly divided into such evacuations as flow from the bowels, called ALVINE, from alvus, the belly---sanGUINARY, from sanguis, the blood---called HEMORRHAGES, from aima, sanguis, and red, sluo, to slow---and serous, from serum, or the thinner sluids, as lymph, urine, mucus, sweat, and similar sluids.

Now all these evacuations are either ACTIVE or PASSIVE, fimilar to what we have said on inflammation. (298. 305.)—when they are ACTIVE, they are solicited by some morbid stimulus, or medicines by which the excretory vessels of the parts affected are put into stronger action, and throw out their contents too copiously, or the vessels burst, and from thence is the evacuation produced—when PASSIVE, the proper powers of the living machine do not excite, but become defective in resistance, as in cases of a constant slux of urine from the relaxation of the sphintler of the bladder. (51.)

Of these truths we shall be convinced, if we consider, that all the fluids of the human machine are contained in different receptacles, as bile, urine, &c. and also that part of them are kept in perpetual motion, as the blood, &c. part of them secreted and excreted; some of which secretions slow out of the body in regular succession, as the matter of perspiration; some are retained for a time, till nature calls them into motion for particu-

lar purpofes, as milk, femen, &c.

It will therefore appear obvious, that whenever the force of the impelled fluid, or the weight of it, when collected, is too powerful for the natural strength of the vessels or cavities, the vessels which burst, or the sphincters by which they are guarded, and prevented from pouring out their contents, be opened; hence, when either the expulsive force of the contained liquid is too great, and the sides of the vessels too much weakened; or when the sluids are in too great quantity, and the sphincters in too relaxed a state, the rupture of the one, the want of contractile power of the other, will necessarily lay the foundation for the disease; so that it may arise either from an increase of the expulsive and decrease of two resisting power, or from them both happening

happening conjointly in the same habit, and at the same time. The indications of cure will then be, in ACTIVE EVACUATIONS, to attempt to remove the morbid slimulus, and weaken the powers of the vessels or cavities---in the PASSIVE, to strengthen the vessels or cavities, and give power to the sphincters, that they may act with proper force.

CHAP. I.

ALVINE EVACUATIONS.

HESE may all come under the term LOOSENESS.--DIAR-RHOEA from dia, per, and rheo, to flow, though they are by authors divided into different species, either from the nature of the affection, or from the appearance of matters which flow through the bowels in too large quantity---the first of which is stilled DIARRHOEA, or COMMON LOOSENESS, when there is a constant and remarkable evacuation by stool of liquid matters without much pain or uneafiness; but when there is an evacuation of slimy matter, sometimes bloody, attended with febrile affections, severe gripings, nausea, or sickness, and frequent propensity to go to stool, with very small evacuations from such efforts, it is called DYSENTERY, DYSENTERIA, from dus, male, and enteron, intestinum, jutestine.

When the disease is very acute, attended with a continual vomiting of bilious matter, and at the same time a violent looseness, or at least a nausea, and strong propensity to go to stool, with loss of strength, and very often cramps of the thighs and legs, it is called CHOLERA MORBUS, from kole, bilis, bile.

When there is a frequent purging of bloody ferum, as if raw lesh had been washed in some liquid, supposed to slow from the iver, it is called INDOLENT, because unattended with any servere pain, great sickness, or remarkable loss of strength---this evacuation is therefore named HEPATIRRHOEA, from epar, jetur, the liver, and reo, sluo, to slow.

If there is a frequent purging, in which the aliments appear carcely to be changed by the digestive powers, and comes on mmediately, or soon after eating, it is termed LEIENTERIA, rom leios, lævis, smooth or slippery, and enteron, intestinum, ntestine

Should there be a frequent evacuation of white matter, fupofed to be chyle, it is termed COELIAGA, from koilia, venter, the stomach, or first bowels, where the first digestion takes places and forms chyle, which chyle is supposed to give the appearance from whence this disease is nominated.

If of black matter, or of a deep red colour, is then called MELLENA, from melas, niger, black, unattended with any putricular, fudden deprivation of strength, or remarkable degrees of pain, or nausea.

However, it will be sufficient to take notice only of two on these, as the rest may be cured by the same means made use on

in some of the stages.

6 1. CHOLERA MORBUS, OR BILIOUS, VOMITING AND INTEST

The feat of this complaint feems to be the whole intestinant canal, particularly the stomach, head of the duodenum, (42... and doctus communis choledochus, the common duct of the gall bladder. (36.)

And it is apt chiefly to attack fuch as are of bilious, dry choleric habits, or whose constitutions are loaded with scorbutinacrimony, or the first passages with acid humours, or are on

irafcible dispositions.

Though this difease will sometimes come DESCRIPTION. on very fuddenly, it is often preceded by heart-burn, a gnawing painful fensation of the stomach and bowels, and rancid eructan tions-after which fucceed enormous vomitings, and intestinant discharges of vitiated humours, bilious, green, yellow, and fometimes black, with great difficulty and pain-there is alfell a violent pain and diffention of the belly and intestines, accompanied with thirst-a pulse at first full, strong, and frequent afterwards weak and irregular-heat, and anxiety-moreoverr there attends a nausea extremely troublesome-sometimes contraction of the legs and arms—an acute pain above the nave -retention of the urine-fainting-coldness of the extremities -the body becomes weak, and the spirits low-with other fymptoms of a fimilar nature, which greatly terrify the attent dants, and will destroy the patient in forty-eight hours.

This difease generally makes its appearance in autumn, more

especially after a hot and dry summer.

If the disease is more than commonly violent, the evacuational downwards are very numerous, amounting in the space of a few hours to ninety or a hundred—the patients soon become emaciated and reduced—and the symptoms above specified are quickly followed by hiccough—universal convulsions—cole sweats

fweats-frequent fwoonings-and either in one of these fits, or in a convulsed state, when the disease proves fatal, they expire.

CAUSES. The remote or inducing are, eating of pork, bacon, fat meat fried in oil or butter—or fweets, grapes, cherries, cucumbers, melons, or all fuch viands as become readily rancid or acid—poifons—strong purgatives—violent rage—and acrimonious bile.

The proximate or immediate, constrictions of the stomach and small intestines, particularly the duodenum, by bilious or acrimonious humours irritating and vellicating the sensible nervous coats, which cause an increase of action in these organs, producing different symptoms, according to the parts locally or sympathetically affected.

CHARACTERISTIC SIGNS. An acute disease, attended with the vomiting of some humour, mostly bilious or acrid matter, at the same time a frequent intestinal evacuation, or at least a nausea and tenesmus, or frequent desire to go to stool, accompanied with anxiety, abdominal pains or gripings, and very of-

ten spasmodic contractions of the legs.

CURE. The indications are, to sheath, dilute, and expel the acrimonious humours, take off the convulsive affection; afterwards to restore strength and activity to the stomach and intestines; and these are done, first, by drinking freely of weak chicken water, made by boiling a chicken in three gallons of water, so that the decoction just tastes of the sless draughts of which should be taken, and given in glysters till the whole is consumed—about three or four hours after which an opiate, (No. 4.) may be given; and this mode, if at first made use of, will generally complete the cure.

Or, very weak beef or mutton broth, divested of fat—or milk and water—fresh butter—milk—decoctions of rice or barley—or infusions of oaten bread, toasted and made brown like coffee—or wheat-bread, or oat-meal toasted may do, where chicken-broth cannot be had—indeed the infusion of the oaten bread has been preferred by some, as it has been observed to sit easiest on

he stomach, and never vomited up.

But should the patient have been purged for ten or twelve nours before assistance has been given, an opiate should be administered during the urgency of the symptoms, and the doses arge and repeated, approportioned to the violence of the disease.

—Sydenham gave twenty-sive drops in an ounce of cinnamon-water, and that proving inessicacious, in half an hour the dose was increased, and repeated at such intervals as gave room to uppose the effect of the former dose had ceased, before the succeeding one was administered—and after the severity of the diseased one was administered—and after the severity of the diseased.

ease abates, the opiate should be repeated night and morning,

till the firength and fpirits return.

In common cases this will be sufficient; but if the patient is of a full, fanguinary babit, bleeding is immediately necessary—should the pains of the stomach and intestines be extremely violent, partial warm baths, or local somentations of the spirituous kind, may be had recourse to, and camphorated and volatile lini-

ments, (No. 107. 1321)

Should, after copiously washing the stomach with some of the diluting liquids, the affection of the stomach still continue, the fermentative saline draught, (No. 59.) may be exhibited; or the infusion or powder of columbo-root, ten or sisteen grains to a dose, at proper intervals, which is often an effectual remedy—cataplasms of mithridate, Venice treele, or opiated confection, or the leaves of common mint bruised, boiled in port, may be applied to the pit of the stomach and wrists—and mint tea, or weak insusions of cloves or cinnamon, may be taken occasionally.

In cases of great heat and internal uneasiness, nitre is recommended—from thirty grains to fixty of powdered columbo-root; from the first, taken every three or four hours, have been said in three or four days to have completed a cure—indeed, in hot

climates, it has been esteemed almost a specific.

After washing the stomach extremely well, in ten or twelve hours that organ settles, opiates then given in a liquid, or solid form, as best agrees, are requisite to allay the disturbance which has been created in both the nervous and vascular systems; which must be continued at bed-time; and, in about three or soundays, a dose of rhubarb may be proper, and, at night, an anodyne.

Should the appetite be left weak, a draught of the infusion of quassia wood, with a few drops of dilute vitriolic acid, may be given twice a day, or some other bitter infusion, (No. 63 to 65.)—and the paient should return gradually to the common mode

of living.

The mode of treatment here recommended is proper in this

complaint arising spontaneously, or from an epidemic cause.

But when it originates from food got into a state of fermentation and corruption, besides plentiful dilution, with watery and mucilaginous liquids, we must have recourse to emetics and aperients, (165, 172, &c.) (as ipecacuanha, emetic tartar, castor oil, rhubarb, &c.) and afterwards warm bitters and tonics, and corroborants, with aromatics. (No. 61 to 65.)

If it is brought on by strong emetics and purgatives, warm feedatives are necessary, to allay the agitation of the bowels and sto-

mach, (No. 113.) spirituous somentations and volatile camphorated liniments, (No. 107. 132.) afterwards, to alleviate the uneafiness occasioned by the violent action of the emetics and

purgatives.

If violent anger should be the cause, emetics and purgatives are to be avoided; nor must cold water be given immediately afterwards, as we should run the risque of bringing on an inflammation of the flomach-the acrimony of the bile we must endeavour to correct, by proper absorbents, (191) united with nitre, (No. 2.) diluting and fheathing it with mucilaginous and watery liquids, as barley-water, thin gruel, bran tea, decoctions of hartshorn shavings, and fuch like lubricating and emollient drinks-afterwards, when the hurry is over, it may be carried off by emetics and aperients.

If it deduces its origin from acrimonious irritating poisons taken internally, we must depend upon filling the stomach and intestines with oily and mucilaginous liquids, to guard them from the effects of their stimulus-absorbents added to these liquids are faid to render them more efficacious-or alcalescent substances, (192.) well diluted, might be ferviceable, if the poisons had been of the faline kind, for reasons advanced in inflammations of

the stomach from the same cause. (337.)

6. 2. DYSENTERY, OR TENESMODAL, DYSENTERIC, INTESTI-NAL FLUX.

When this disease is epidemic, it seizes indiscriminately all classes of people-but those in general are most subject to it who are of bilions constitutions, (60, 61.) - who feed on corrupted diet, unripe fruit, and drink termenting liquids-and who expose themselves to the moist night air, after being in the day-time much heated by the fun. It is most rife in summer and autumn, when damp cold nights fucceed hot weather.

It is not only infectious but contagious; because it has been known to be occasioned by the smell of dysenteric seces, and from having recourse to the same close-stool after people labouring under dyfentery, and also from the nurse's milk, under si-

milar circumstances.

DESCRIPTION. This disease is generally ushered in by a general laffitude and chillness, with a loss of appetite for some days, which are succeeded by great degrees of heat-reftleffness -naufea-vomiting-heart-burn-and uneafiness at the pit of the stomach-thirst-and a quick pulse-excruciating pains then feize the belly, which occasion a frequent evacuation from the intestines, but small in quantity—the matter evacuated is either mucous, 3 C

mucous, thin, and ferous, bloody, frothy, and often mixed with thin skin-like, or filamentous substances—the bowels are loaded with wind, which rolls about, and makes a considerable noise—and the patients are perpetually desirous of going to stool—have a strangury, and often a slipping down, or protrusion of the lower part of the rectum, (43.)—the loss of strength becomes extreme—and whilst the extremities are cold, they perceive in the interior parts great heat—then soon come on a hiccough, and cold sweats.

At length the pain suddenly ceases—the sæces, extremely offensive, pass away involuntarily—the pulle becomes weak—the thirst goes oft—and, whilst the unhappy patient is flattering himfelf with the hopes of recovery, from the apparent alleviation of the symptoms, he suddenly expires.

This difease, notwithstanding it is often fatal to adults, but most of all to such as are much advanced in life, still in infants it is very mild; for they will be affected with the same disease for some months without any inconvenience, if it is left

to the direction of nature.

Though the general progress of the disease is here described,

practice demands us to make some necessary distinctions.

If the dysentery is of the INFLAMMATORY KIND, there will be a high degree of sever—hard sull pulse— extreme pain of the belly, which, on handling, increases, and, after vomiting, is still more distressing—the head aches—the countenance is sushed—sometimes the belly is distended—in quantity the evacuations are small.

If of the PUTRID KIND, there will be a bitter taste in the mouth—shiverings now and then come on, as it pursues its course—the feverish affections are slight—the sace pale—the evacuated matter variously coloured—besides which, a bilious vomiting,

femetimes accompanied with worms, is an affociate.

If of what is termed the MALIGNANT SORT, which it may be from the very beginning, or occasioned by the milder fort degenerating from constitutional defect or mismanagement—the pulse is then weak—the strength fails suddenly—the countenance has a cadaverous aspect—the voice is weak—the head heavy—there is great oppression at the pit of the stomach, attended with slight convulsions, sickness, and frequent fainting—and, now and then, eruptions of different kinds make their appearance, such as those of the miliary class, spots like slea-bites, and thrush.

CAUSES. It is supposed to arise from acrimonious matter of a putrid nature; because it makes its appearance in moist warm seasons, adapted to generate putrescency, chiefly attacks those of scorbutic habits, (61.) and originates from vapours of

putrefcent blood; particularly because it softens and corrupts the parts affected, generates air very copiously, and renders the faces highly putrid; and also because, on the diffection of bodies dying of this complaint, the intestines, especially the colon and rectum, (43, 45.) are preternaturally thick, distended with air, inflamed, ulcerated, and in a mortified flate-the inner or villous coat abraded—the bile greenish like a leek, viscid, and often of a black colour-and the blood very dark in appearance.

CURE. Of whatever nature this disease may be, the indications are fimilar, and depend upon evacuating the acrimony, or determining it to other places-weakening its action-alleviating the diffreshing symptoms, by rendering the intestines less fensible to its irritating effects, in its FIRST STAGES-in the LAST, recovering the tone, and giving strength to the relaxed and weakened veilels.

To promote these purposes, in full habits, where there are apparent fymptoms of inflammation, the patient should be bled once or twice, according to their urgency, and the strength of

the patient.

In the next place, the stomach and intestines should be unloaded by emetics and cathartics-twelve grains of powdered ipecacuanha, and one of tartarized antimony, should be well mixed together, and divided into three parts, and one given every fecond hour-no liquid should be taken after the first dose; but after the third, weak beef tea, or chicken broth, should be drank liberally to encourage the vomiting-after which a flight opiate will be requilite.

Should the emetic produce smart evacuations upwards and downwards, the fucceeding day it is not necessary to order any thing except a grain of opium, mixed with three or four grains of ipecacuanha into pills, with fyrup of white poppy heads, and

given at bed-time.

But should the emetic not have produced any purgative effects, a purging powder, made of thirty grains of rhubarb, and three of calomel, must be administered the morning following .--As for my own part, in the beginning of this complaint, I prefer the oil of castor emulsion, (No. 66.) as it relaxes the coats of the stomach, sheaths the acrimony, produces evacuations, and mitigates the pains of the bowels.

But as is the nature of the disease, so should be the election of our purgatives-if of the inflammatory kind, the falines are preferable, (172,)-if the putrescent, the antiseptic, as tamarinds, cream of tartar, &c; (No. 23, 24. 50, 51.) but in every case, 3 C 2 after

after the effects is produced, an opiate should be administered at

night.

In the intermediate spaces of time, small doses of nitre, accompanied with antimonials and saline mixtures, may be exhibited, joined with sheathing medicines, such as gum tragacanth, arabic, starch, if the sever keeps up—or should it be of the low malig-

nant, gentle cordials are proper.

However, should not the disease soon yield to this mode, but the symptoms still continue, particularly griping and purging, small doses of ipecacuanha may be given, sufficient only to create a nausea, (No. 133.) increasing or decreasing the dose agreeable to the effects, and joining it with antiseptics, cooling, or cordial medicines, as the particular nature of the case may require.

Should the stools continue remarkably viscid and offensive, every second or third day a purgative should be given, and at night

an opiale.

We must proceed in this manner, till, from the regularity of the pulse, the sessation of pain, and propensity to stools, as well as from the want of them, we may conclude the disease terminated—but should not these appearances occur in the course of a few days, we have reason to apprehend the greatest danger—we must then, if the symptoms continue as violent as at sirst, have recourse to somentations, (No. 111.) and glysters of the sheathing and anodyne fort, made of milk, broth, marsh-mallow or linseed decoction, with starch and tincture of opium.

Besides the ipecacuanha, other medicines are recommended, and, if we believe the recommendation, falling little short of infalibility, viz. form two to ten grains of created glass of antimony, from ten to sifteen grains of powdered columbo every three or four hours—the decoction of semiranha bark is considered as a specific, and said to remove the disease without the danger or inconveniencies attendant on astringents. (No. 134.)

At the close of the complaints aftringents are useful, particularly tonics; and, indeed, also when the most violent symptoms of fever, pain, and tenesmus have ceased, to relieve the re-

laxed flate of the veffels.

In pursuing the modes here laid down, we shall seldom fail of curing this complaint; but should it be accompanied with a putrid malignant sever there will be little hope of a recovery—however, we should try the effects of ANTISEPTICS, (192 to 194.) particularly wine, insusions of bark and snake-root, with a few drops of tincture of opium in each dose, and the free use of subacid fruits, (192.) taken by themselves, or squeezed plentifully into other liquids—indeed, fruit, and things of a similar na-

ture, will form, in these cases, the proper plan of diet—but when dysenteries are unattended with any high degree of putresaction, decoctions, and jellies of rice, sago, tapioca, salep, the white decoction, chalk mixture, weak chicken-broth or beef tea, are most proper—though all solid animal sood must be avoided.

When flatulencies become diffreshing, which will sometimes be the case, chamomile flower tea, insusion of cinnamon or cloves, or liquids impregnated slightly with other aromatics, may be

occasionally administered with great advantage.

However, we have had inflances of some of these complaints which were epidemical, and from their nature so extremely defiructive, as exceeded the powers of medicine, supposed to be owing to their deducing their origin from acrimonious humours, highly caustic—in which a total loss of strength, swelling of the belly, finking of the pulse, a discharge of blackish stools, and clammy sweats, were certain signs of the irremediable state of the disease.

With respect to the COMMON DIARRHOEA, if it is unattended with any weakness, loss of appetite, or sebrile affections, and is moderate in quantity, it very often is of service to the constitution, and is rather conducive to health than otherwise; but should it run on to too great excess, it will require the same means for its cure, and will be conquered much more easily than the dysfentery—and, indeed, all the other species we have specified require the same treatment—at the beginning clearing the first passages of any irritating contents, by proper emetics and catharties; next soliciting the flow of sluids to the surface by diaphoretics, and strengthening the slomach and bowels by tonic astringents, bitters, strengthening medicines, and particularly riding on horseback, at the close of the complaint.

With regard to the HEPATIRRHOEA, we must proceed as advised in that disorder called tabes hepatica, or hepatic con-

fumption, (334. 335.)

CHAP. II.

HÆMORRHAGES,

FROM the Greek words aima, fanguis, blood, and rennumi, e-

SANGUI-

SANGUINARY EVACUATIONS.

All these effusions of blood are considered as morbid, which either flow from particular parts not naturally accustomed to produce fuch evacuations; or, though producing them periodically, still afford them in too great quantity, or return at too quicks periods, that the machine, by these means, is so injured, as to experience some defect in executing its functions properly, and confequently falls into a diseased state, attended with a greater or less degree of danger, according to the violence of the effufion, or to the consequence of the part from whence it flows.

Now all hæmorrhages arise, either when the circulatory propullive powers are increased to a great degree of violence; ort that the refistance of the blood on its part and the vessels should! he diminished; or that each of these things should happen att

one and the fame time.

Hence, then, we find, that complaints of this pature may be occasioned in four different ways --- by the vessels being ruptured, dilated, or eroded; or, by the blood having loft its natural vifcidity, and becoming to thin --- under any of these circumstances, the veffels not being capable of confining the blood within its proper channels, occasion hæmorrhage --- whence arise a variety of these complaints, taking their names from the places from whence the blood iffues; or the action of the parts producing, instead of their natural, these sanguinary discharges.

Hence BLEEDING OF THE NOSE, named EPISTAXIS; from

the Greek word epistazo, sanguinem e nasibus stillo.

SPITTING OF BLOOD --- HEMOPTYSIS, OF HEMOPTUON, from aima, fanguis, blood, and ptuo, to spit.

VOMITTING OF BLOOD --- HEMATEMESIS, aima, fanguis, and

emeo, to vomit.

SAMOUL

MAKING BLOODY URINE --- HEMATURIA, aima, blood, and ouron, urine.

PILES --- HEMORRHOIDS, aima, fanguis, blood, and rheo, fluo,

to flow. MENORRHAGIA, mene, menses, and rheo, to flow.

In all morbid effusions of blood, from whatever place they iffue, we endeavour to find out the proximate or acting cause before enumerated, and form the modes of cure accordingly ;--but as effusions of blood from the lungs is of the most dangerous nature, we shall select that, in order to point out the particular mode of proceeding, and occasionally advert to what deviations may be necessary on account of the difference of situation of the part affected.

§ 1. SPITTING OF BLOOD, OR HEMOPTYSIS.

All morbid effusions of blood through the mouth take this general name, except that which is vomited up---and this appellation we think improper---if blood comes from the gums or throat, or drops from the superior part of the nose internally into the superior part of the fauces, it may be right; for the effusion externally will only be attended with a spitting, slight cough, or hawking; but, when from the lungs, the cough is more considerable---we shall therefore distinguish the complaint of which we are about to treat, by the term,

§ 2. COUGHING UP OF BLOOD.

DESCRIPTION. In this complaint, for the most part, a chillness--lassitude---coldness of the feet---dissiculty of breathing come on---a weight, or undulating sensation is felt about the diaphragm---flatulence in the belly---and pain in the back---at length there comes on a tickling and itching in the windpipe, from whence issues forth blood---if it is recent, the colour is florid, the sluid frothy, and coughed up in large mouthfuls---but it is not always of a very florid colour---in some cases it is of a blacker hue, as it remains and concretes more or less in the vesicles.

From the fymptoms here enumerated it appears, that a spasm

of the whole machine takes place before the effusion,

CAUSES. The remote or inducing are faid to be, a fullness of blood, brought on by fome accustomary evacuations being impeded, if, at the same time, the action of the vessels should be strongly increased by anger, violent motion, living upon too hot food or liquids, or violent cough, should the exertions in protruding the fæces in costive habits be too powerful---long exposure to severe cold, causing a contraction on the surface of the body and the external veffels, air possessing too much levity in very high fituations, a suppression of the menses or piles, too great a rarefaction of the blood, spasmodic centractions of some of the vifcera, feirrhus obstructions in the neighbouring vifcera, or a fcirrhus or polypus in the veffels of the lungs themselves --- or, in fine, whatever determines too large a quantity to the lungs, and causes it to circulate too forcibly against the vessels which are not obstructed, or some diseases which break down the texture of the blood, or erode the veffels, as scurvy, pulmonary confumption, small-pox, or those depending upon a putrescent acrimony of the fluids.

Those which are proximate or immediate we have before enu-

merated, (622, 623.) but most commonly it is a rupture of the

veffels preceded by an universal spasm.

CHARACTERISTIC SIGNS. A flushing of the cheeks, fensation of uneafiness, or pain, sometimes heat in the breast, a tickling of the sauces, cough, and throwing up of florid coloured blood, often frothy.

People most subject to this complaint are those of slender, delicate frames, who have long necks, are narrow chested, whose blood is actid and copious, and are between twenty-sive and

thirty years old.

CURE. This disease is always to be considered of a very dangerous nature, and requires very early and effectual affiftance -in doing which, we must endeavour to solicit the blood from the lungs, moderate its heat, take off the external spasmodic affections, and heal the vessels, if ruptured .-- If then it proceeds from too great fullness we must have recourse to bleeding, in proper quantities, and at such intervals as the necessity of the case demands-all animal food must be prohibited, even the weakest broths - and the diet should be by no means nutritious, but should chiefly confift of vegetable juices, fuch as burned turnips, apples, oranges, panada, thin gruels, ices, and fuch fimple materialsthe liquids allowed should be nitrated emulsions, Seltzer water with milk, or barley water, thin whey, or toall and water drank cold-the body foould be kept at perfect reft, feldom in a recumbent posture, nor should the patient be allowed to speak, fearce at all; nor, indeed, should any thing be permitted that: can in the least increase the motion of the lungs-opiates should! be exhibited now and then, if necessary, to procure rest, and the: body kept open by glysters, (No. 25, 26.) or gentle cooling aperients, (171, 172.) that the blood may not be impeded in its circulation downwards.

The mind of the patient should be kept perfectly at ease—and the first and second bleeding should be copions, from large orifices, and quickly repeated, if the violence of the case requires it—for one free bleeding in this stage is of infinitely more fer-

vice than a number of sparing ones.

Nitre should be given freely in any eligible form, as it is much to be depended upon; for it lessens the motion of the blood, and allays its heat, consequently prevents strong vasculars action, and the expansive power of the blood.

Keeping the body open with cooling aperients, (171, 172.) particularly Glauber's falts largely diluted, (No. 135.) is extremely useful, taken now and then, till the effect is produced twice, or oftener.

Should the cough be very troublesome, some of the oleagi-

nous

nous medicines, (No. 81 to 84.) to which nitre may be added,

and given to allay the pulmonic irritation.

This method in common and recent cases will almost always succeed; but when it proceeds from previous injury in the texture of the blood, and weakness of the lungs, constituting that kind which is habitual or consumptive, little can be expected from bleeding; for this, by weakening the system, and contributing more to dissolve the texture of the blood, seems rather calculated to increase the mischief, inasmuch as it adds power to its causes; small doses of antimonials, (180.) or ipecacuanha, (180.) are most likely to produce good effects, by determining the flow of blood to the surface, and demulcents, (188.) by adding to the viscidity of the sluids.

And should the pain, difficulty of breathing, and cough, cease with the efflux of blood, we may give tonic medicines, as decoction of bark, (193.) to which may be added the balsam of capivi, (165.) or some of the mild balsamic class; for we may reasonably infer, that there is no more extravasated fluids in the pul-

monary vehicles.

But it fometimes happens unfortunately, notwithstanding all our efforts, that though the efflux of blood may be stopped for a few hours, or days, it will return with a quick hard pulse, troublesome cough, oppression, and difficulty of breathing, then we may have reason to be alarmed, and fear a supervening consumption—in this case we have little to depend upon but general remedies, such as goats whey, as milk mixed with Seltzer water—or the waters of Bristol should be had recourse to—riding, swinging, sailing, and a milk diet; for some have, by these means being rigidly pursued, happily recovered.

Slight vomits may also be given three or four times a week, early in the morning, merely to give two or three motions—three or four grains of ipecacuanha is sufficient and fully ade-

quate to answer every useful purpose.

6 3. BLEEDINGS OF THE NOSE

are not commonly attended with much inconvenience, and generally yield to topical applications—which may be had recourse to, if the pulse becomes weak and small, the cheeks and lips lose their natural colour, and the extremities be seized with unusual coldness—the common remedies are smelling at vinegar, or solutions of white vitriol, applying dosils of lint by themselves, or loaded with some styptic, as styptic tincture, alum, &c. cold wet cloths, or cold iron applied to the nape of the neck.

But

But when the affection is accompanied with any great increase of vascular action, which will be attended with a strong, quick, full pulse, heat, head-ach, and other symptoms, indicative of too firong vafcular power, we must have recourse to bleeding, and fuch remedies of the cooling kind as we have advised, (302, &c.) -but should vascular debility, or the blood being in a loose diffolved flate, be the cause, we must depend upon aftringents and tonics, paticularly bark and the vitriolic acid-creating naufea and gentle vomiting is recommended, as advised, (394.)if by these means a period is put to the hamorrhage, the body should be kept in a state of perfect quietude-if costive, aperie nts and glysters should be exhibited, and a paregoric should be given at night. And as almost all active hæmorrhages arise from too great plenitude, occasioned by the suppression of some natural discharge, particularly in young full habits-in older constitutions, which are supported by plentiful, or more copious diet -whence they are preceded by pain and fullness of the head, occasioning drowfinels --- in order, therefore, to form a preventive plan, abstinence is necessary, keeping the head cool, the body open, making the flightest suppers, and those of the most light and refrigerating diet; but they are altogether better avoided.

§ 4. VOMITING OF BLOOD, OR HAMATEMESIS. (390.)

The characteristic marks of this disease are, frequent nausea or efforts to vomit, and at the same time a rejection of bloody materials by the mouth, mixed with such as have before been swallowed—from whence the stomach seels some alleviation; but the blood vomited up is grumous—and the stools which, succeed afterwards are black.

This affection, however, is more common to women than to men, and less frequent in both than the making of bloody urine.

---If a women in this disease should menstruate, she is cured; for it often is occasioned by a suppression of the menses---and in men, from an obstruction of the bleeding piles, and also from infarction of the liver and spleen---still it may be occasioned by other causes; such as full and free living---swallowing down constantly large quantities of succulent or juicy food, at the same time indulging in indolence---and the blood pushed forwards in the course of circulation too rapidly, by severe exercise, running, riding, sits of anger, and the too free use of vinous and spirituous liquors.

CURE. In these cases, though bleeding may be sometimes necessary, it must be cautiously repeated --- we must be governed

by the strength of the patient, which is sometimes apt to fail suddenly---the pulse readily slags;---the sanguinary slux is apt to be extremely copious, and often occasions fainting.--Nor should any thing be given that is likely, in the least degree, to be offensive to the stomach.---As therefore it is essentially necessary to have the body kept open, we must depend upon glysters chiefly---though rhubarb in small doses, if the stomach will bear it, has been recommended.

Weak, broths, with some of the astringent vegetables unboiled; --- such as plantain--- ground ivy--- cup-mos---nettles--or rather their expressed juice, may be given--- insusion of red roses -- sloes--- or cold water, acidulated with the vitriolic acid--may be administered as drink--- also ices--- and at night gentle opiates, mixed with astringents of the milder class; --- avoiding all those which are likely to create nausea--- such as alum, white vitriol, &c.

In all the different species of this complaint it will be necesfary to proceed in this manner.-But if the suppression of the menses, or of the bleeding piles, should be the cause, these are to be solicited to their natural passages by proper means; or should they arise from affections of the liver, or spleen, such medicines should be exhibited as are calculated to relieve them as much as the state of the stomach will permit.

But here we must observe, that in the middle of pregnancy, they are rarely injurious; but if in sever, they are always satal, if the blood be black and setid; nor should we flatter ourselves with much hope, if they proceed from enlargements of the spleen, or liver, and induration, or should there be fainting to

any degree of feverity.

6 5. BLOODY URINE, OF HAMATURIA. (390.)

In this complaint, the matter passed through the urethra is either pure blood, or bloody urine, that is, urine having acquired intense redness from being mixed with some particles of blood. The most common causes of which are stones, or gravel lacerating the different parts of the urinary passages; but it may be occasioned by venereal excesses, as blood may issue from the seminal vessels (two membranaceous cellular tubes, lying on each side, between the bladder, (50.) and rectum, (45.) on the outside of the vasa deferentia, (53.) and also from the prostate glands; (54.) hence are they considered amongst the causes, as are also dissolution of the blood, or violent exertions of the circulatory

circulatory powers, in fevere inflammatory fevers, particularly in the fmall-pox.

Whatever may be the cause, two points are to be considered, whether there is an inflammatory, or, putrefactive disposition in the blood.

If the former is prevalent, and the habit full, we must bleed, and that repeatedly, till we have taken off the general plenitude, and allayed the intenseness of the action of the vascular system, the bowels should be kept open with saline purges and manna, (172.) and emulsions with gum arabic, and cooling decoctions of linseed tea mixed with nitre, should be freely administered, and the uva ursi (139.) may be administered, which in this case I have seen extremely esticacions, other astringents are not adviseable.

If the SECOND, --- tonics --- astringents --- and balfamics --- as bark -- lime water -- tincture of roses -- alum whey should be had recourse to, to restrain, as quickly as possible, the essue of blood -- and by continuing afterwards the use of the bark, joined with the balfam of capivi -- drinking chalybeate waters, and using a milk diet, endeavouring to strengthen the tone of the system, and prevent a relapse.

But without either of the constitutional tendencies above recited, should the cause be a suppression of menses, or piles, and these cannot be restored or solicited to their natural passages occasional bleeding will be a salutary substitute.

Or should it deduce its origin only from calculi, during the fits of pain we must guard the parts against the effects of their stimulus, by emollient and demulcent remedies, (140—187.)— ætherial spirits of nitre, and such like—afterwards we must endeavour to strike at the cause, as recommended in pain of the kidneys. (364.)

Here we must observe, that in all cases of great pain, opiates should not be forgot, especially if stone or gravel is the cause—and, indeed, in discharges from the ureters, and kidneys, the insusion of carrot-seed (No. 123.) has not been slightly recommended.

But in all cases of bloody urine, all powerful astringents should be industriously avoided, lest they should produce too strong a constriction of the passages, and from thence coagulated blood might be restrained, productive of inslammation, or forming a nucleus, or basis for a stone.

Sometimes the urine will appear to be extremely high-coloured, as if blood had been mixed with it—of this it is neceffary to be certain;—which may be discovered by straining the urine through fine linen—perfectly clean—if there should be any admixture of blood, it will be stained of a red colour—if not, there will be no fuch appearance.—And lastly, great care should be taken in properly discriminating between bloody urine, and sanguineous discharges of a gonorrhæa, or clap---or from piles making their exit through the urinary passages;--- and critical discharges should be distinguished from those that are not.

§ 6. PILES, or Hæmorrhoids. (391.)

These have been divided into the OPEN and BLIND -- the first, when they are attended with an effusion of blood -- the last, when they give no such appearance -- or into exterior and interi-

or, from their fituation.

They are not always, however, to be considered as a disease, for they are a very falutary discharge, and sometimes periodic, preventing a number of other complaints, which are apt to appear, on their being imprudently expelled, or flopped .-- I have known people, from this cause, labour sometimes under a vaiety of internal affections, which have all vanished on their e-appearance. To those afflicted with gout---who are hypochondriacal .-- hysterical --- subject to complaints of the kidor bladder -- to sciatic pains -- afthma -- mental deangement, and fome others, they are confidered to be highly erviceable. Hence, whilst they continue moderate, and appear be a falutary effort of a nature to relieve herself from some sperfluous load-there is no need of medical affistance. But they are extremely and constantly painful, or pour forth a rge quantity of blood, so that the patient experiences great delity, and grows thin, they then may be confidered as morbid. Those who are disposed to become corpulent, eat, and drink eely; -- whose habits are relaxed --- costive --- plethoric -- from dolence, or any other cause, are most liable to this complaint; fides, firong purges will also bring them on. These causes duce obstruction in, inslammation, and swelling of, those vefs called hæmorrhoidal; whence, about the anus, there will livid, painful tubercles; from which frequently iffue blood, nich also sometimes flows without any visible tumour, attendoften with a load, and pain of the head, giddiness, and pain the loins and anus.

CURE. When there is no efflux of blood, from the piles; they generally attended with such great degrees of pain, that ople are afraid of going to stool. Under these circumstances, people are of full habits, bleeding, abstemious diet, and ld aperients—(No. 3. 22 to 24.66.135, or 136.) to take off

the fullness, and preventive costiveness, should be had recourse to ---after, warm olive oil may be applied to the part---or diluted preparations of lead (139) with camphorated spirits and lime water; ---juice of houseleek---to any of which may be added tincture of opium. The patient should, as much as possible, be kept in a recumbent posture; and, when sitting up, avoid pressure on the parts---or heating them---for which purpose a chair stuffed round the edges, with a vacuity lest in the center, should be used.

The diet should be of the mild laxative, emollient kind, not any thing taken which can heat, or cause the blood to circulate

with too great freedom.

WHEN THE PILES ARE OF THE BLEEDING SORT, and it becomes necessary to stop the slux of blood, cloths dipped in vinegar and water may be applied to the loins, and anus, which failing, or not soon succeding, a gentle emetic may be administered, (No. 11.) and after the operation, the anodyne draught (No. 4.)

In these cases, the indications of cure are very obvious. To take off the superincumbent pressure from, and lesson the action of the vessels, towards the affected part; to strengthen the tone

of the veffels relaxed, and take off local irritation.

But as these discharges are brought on by infarctions and obstructions of the liver, other things are necessary to be done, in order to prevent a relapse; for under these circumstances patients are liable to frequent returns; hence, in order to remove the causes, we must have recourse to such medicines and regimen as have been advised in pain of the liver from those source

ces-(Page 351.)

Sometimes this disease will arise merely from want of strength and tone in the rectum, (46.)-Preparations of iron, (139.) units ed with bitters, as quassia wood-gentian-chamomile-and fuel like, and continued for some time, are highly beneficial,-and bathing the parts with a sponge dipped in cold water, twice e very day .- And in every species we must carefully avoid al aloetic aperients-for they are too apt to stimulate the rectum -nay, rhubarb will fometimes have this effect; hence, as it i of the utmost consequence to keep the body open, should then be occasion, and that moderately; for strong purging will exal perate, rather than alleviate the complaint, the gentlest aperients (171, 172.) thould only be infifted upon, and those given in fuc quantities, and at fuch intervals, as merely to keep the bowel empty. This difease has been observed also to originate from excess of grief, long continued, as well as from a profusion of the menstrual discharge-and most probably is caused by a ge neit

neral relaxation of the folids, brought on by a torpid state of the nervous system; whence the sluids, deprived of proper circulation from the inactivity of the vascular propulsive power, form

congestions, which fix in these parts.

Changing the scenes of life—travelling—dissipating gloomy ideas by seeing new objects—and diverting the attention, are amongst the best calculated remedies, in these cases—which have been greatly aided by taking four spoonfuls, three or four times

a day, of bark infused in lime-water. (No. 137.)

Where the piles have continued a long time, occasioned by a continued acrimonious looseness, I have known them cured by gentle vomits—small doses of ipecacuanha in a strong decoction of nettles and opiates—administering after the pain had ceased, and the looseness perceptibly abated, bark joined with chally beates.

CHAP. III.

ON FLUXES.

When the Serum or Lymphatic Part of the Fluids are evacuated in too copious Quantities.

A LL fluxes may be faid to be of the serous kind, which depend upon an evacuation of some of the secreted sluids, and are neither of the alvine nor sanguineous class. In this place, however, we shall treat only of the

DIABETES,

from diabaino, permeo, to país through, or a

MORBID DISCHARGE OF URINE.

When, therefore, the evacuation of urine happens in fuch quantities, be the colour or smell what it may, so as to bring on emaciation, or falling away of the flesh—weakness—loss of appetite, and thirst, we may consider it as a disease under this denomination.

DESCRIPTION. Besides an unusual flux of urine, it is accompanied with severe thirst—the mouth is clammy and dry—

and the patients spit up frequently frothy faliva-they complain of heat in the viscera-the urine is limpid, sometimes sweet, and has generally not an unpleafant fmell-there is a kind of fullness of the loins, testicles, and feet-hectic fever-after which fucceed a tabes, and death.

It feldom attacks young people, but those advanced in the latter stages of life, who have been used to drink freely of vi-

nons liquors, and employed in the severer occupations.

CAUSES. The remote or inducing, preceding febrile diseases. particularly if they are subdued by immoderate evacuationstoo long continued use of acidulated waters, particularly in a cold climate, or diuretic medicines -also the bite of a serpent called DIPSAS, from the Greek word dipfa, fitis, thirst, because it occasions so great thirst as often proves mortal.

The proximate or immediate, an increase of action of the secretory vessels of the kidneys, arising from a state of relaxation, and a thin acrid ferofity of the circulating fluids, and a too pow-

erful determination of them to the kidneys.

CHARACTERISTIC SIGNS. A preternatural discharge of urine, immoderate in quantity, and of long continuance, attended commonly with loss of appetite, emaciation, and hectic

lymptoms.

The indications are, to leffen the action of the fe-CURE. cretory vessels, by altering their relaxed state, and correcting the too great ferofity and acrimony of the fluids-hence we must apply to the use of inspissants, diaphoretics, stimulants, and tonics-and as foliciting a flow of liquids to the fkin will prevent too great a determination to the kidneys, in order to keep a free and constant state of perspiration, the patient should wear a flannel fairt next the fkin, use moderate exercise, and dry friction.

Alum whey is strongly recommended, (No. 138.) four ounces to be taken at least three times a day-lime-water drank also, whilst the warmth in quenching continues, taken as freely as the thirst requires, has been faid to exceed the use of Bristol water, which by fome has been confidered as a specific in this difeafe-half an ounce, or fix drams of oak bark infufed in two pints of lime-water, and the chalybeate waters, have had their

powerful advocates.

White vitriol is a useful astringent, (139.) but some depend on half a grain of blue vitriol given twice a day in any proper liquid.

Preparations of iron, (139.) or elixir of vitriol joined with bark, (193, 194.) are no inferior tonics; and, by ftrengthening the habit, contribute much in the promotion of perspiration. Rhu

Rhubarb, (173.) has been recommended as efficacious in laying the foundation for the fuccess of antispalmodics.

As a stimulant, tincture of cantharides, (175.) is by some in

this cafe looked upon as a specific.

Notwithstanding the thirst is a very distressing symptom, aqueous liquids should be avoided—they should be impregnated with some inspissating ingredient, as comfrey-root, or made with lime; and these should be used as common drink—boiled meat is less useful than roasted—broth made of beef may be allowed—shell-sish—wild sowl—jellies in small quantities, and often repeated—tapioca, milk, rice gruels, and such similar viands, may be permitted.

Opiates also at night will be serviceable given with some pre-

parations of iron and diaphoretics. (No. 139.)

This disease sometimes affects hysteric patients, who pass large quantities of limpid urine; hence it is called hystericus—fometimes it supervenes intermittents; hence denominated intermittens—sometimes it attacks people worn out by the gont, in whom, during the painful sits, the urine is small in quantity, and turbid; but in the intervals of the discharge, from perspiration being desective, becomes clear, watery, and copious.

To the general plan, which we have before laid down, we must therefore subjoin antispasmodics, under the first circumstance—under the second, tonics, particularly bank—and under the third, invigorating cordials, agreeable to the specific nature of the case. See Hysteria, Intermittent Fever, and

GOUT.

Sometimes people will be affected with a morbid evacuation of fweat, where that discharge is remarkable for its quantity, quality, and unseasonableness—this is called

§ 2. EPHIDROSIS, OR MORBID EVACUATION OF SWEAT

from ephidroo, fuderam movere, to occasion sweating, which is proportionable to the quantity of perspirable matter contained in the blood, to the velocity with which it is separated, and to the heat or laxity of the pores of the skin—when it arises from an increased circulation of the blood, it is active—when it depends upon the laxity of the skin, and superabundance of serum, it is passive.

When the sweat is cold, it denotes superabundance of perspirable serum, and a relaxed state of the skin-when warm, velo-

city, and, at the same time, ferocity of the blood.

But when these profuse sweatings are connected with miliary, hectic, or other severs, we are not to consider the discharge as a disease which requires management particularly adapted to itself, we must endeavour to destroy or evacuate the seeds of the

3 1

febrile

febrile affection, as by that means only can we conquer its confequences; for in those cases the sweating is purely symptomatic.

But when profuse discharges of the skin come on without any evident cause or sever, slowing chiefly in the nights, and occasions falling away of the slesh, loss of strength and appetite, with lowness of spirits, it then requires medical assistance.

CURE. Here are indicated a diversion of the flow of fluids, a decrease of their serocity, and our endeavours to give general

force and tone to the fystem.

Hence purgatives, at proper intervals, will answer the first and second indications—tonics and strengthening medicines the last, such as preparations of iron, bank, butters, steel waters, moderate exercise, and the use of the cold bath—to which we would add, the frequent administration of milk.

Properly supporting, and judiciously increasing the alvine discharges, are in this case extremely beneficial; for these divert the flow of sluids from the skin, as in the former case increasing perspiration solicited the humours from their determination to

the kidneys.

When this complaint arifes, as it sometimes does, from a scorbutic acrimony, and the blood being in a loose distolved state, which is very often succeeded by that species of consumption called ATROPHY—the sweat pours forth in the middle of winter under the slightest covering, and at the same time affects the patients with resselsings and anxiety; nor do they cease till the vitiated humours are in a great measure discharged by this cuticular slux.

there, as well as where the sweats are of different colours, the remedies recommended are, the juices of fresh vegetables, subacid fruits, and the use of tonics, particularly bark.

THE

THE

FORMS OF MEDICINE

PRESCRIBED AND REFERRED TO IN

MIXED, REMITTENT, INTERMITTENT, AND ERUP-TIVE FEVERS---ALSO IMFLAMMATORY, PAINFUL DISEASES, AND FLUXES.

No. 70. BARK DRAUGHT.

Take Decoction
Tincture
Powder
Powder
Extract
Syrup of Quinces,

of each 10 grains.

2 drams.

Mix .--

71. INFUSION OF QUASSIA WOOD AND SNAKE-ROOT.

Take of Quassia Wood, Snake-root, Boiling Water, 1 1-2 dram. 1 dram. 1 pint.

Infuse .-- Dose. Four spoonfuls.

72. OAK BARK BOLUS.

Take of Oak Bark in Powder, 6 grains.

Alum, 3 grains,
Chamomile Flowers in powder, 8 grains.

Syrup, fufficient to form a Bolus.

To be taken every third or fourth hour.-- The Extract or Powder of the Scale Cup may be used in the same proportion--- or the Pomegranate Bark, and Chamomile Insusion, (No. 60.) may be also exhibited.

No. 73. BARK GLYSTER,

Take of Bark Decoction,
Diffiled Water,
Extract of Bark,

} of each 2 ounces.
2 drams.

Olive

Olive Oil, I an ounce. Tindure of Opium, 8 drops. Mix, -- And let this be thrown up every fourth hour.

74. BARK CREAM.

Take of Bark Powder,

1-2 an ounce.

Extract of the fame. 2 drams. Cream.

Sugar,

3 drams.

Mix .-- Dose. Two or three spoonfuls every second, third, or fourth hour, according to the exigencies of the cafe.

75. ASRINGENT DRAUGHT.

Take Cinnamon Water,

1 I-2 ounce.

Spirits of Cinnamon, 2 drams Electuary of Scordium, 1 fcruple.

Syrup of White Poppy Heads, 2 drams.

Mix .---

or---76.

Take of Infusion of Roses, Spirits of Cinnamon, 2 drams. Extract of Logwood, 10 grains.

Syrup of White Poppy Heads, 2 drams. Mix .-- Either of these may be given every three or four hours, --- or the quantities of these may be enlarged, and formed into mixtures, of which two or three spoonfuls may be administer-

ed occasionally.

77. ASTRINGENT OPIATES.

Take Infusion of Roses, Columbo-root powdered, Tincture of Opium,

2 ounces. 10 grains.

6 drops.

Syrup of White Poppy Heads, 1 dram.

Mix .---

or--- 78.

Take Infusion of Logwood,

Lime Water,

of each 6 drams.

Tincture of Catechu, _Opium,

2 drams. 6 drops.

Syrup of White Poppy Heads, I dram,

Mix .--- Either of these may be taken every fifth or fixth hour.

No. 79. CALOMEL POWDER.

Take

Let these be rubbed well together, and ten or twelve grains administered for a dose.

80. PURGING POWDER.

Take Rhubarb,

Jalep,

Ginger,

Jalep,

Ginger,

Jane Phubarb,

Jalep,

Ginger,

Jane Phubarb,

Grains.

Grains.

Mix .--

81. OILY EMULSION.

Take Oil of Sweet Almonds, 1 ounce.

Gum Arabic, 2 drams.

Fine Sugar, 1-2 an ounce.

Mix these well together, then gradually add

Dose. Three or four spoonfuls often in the day.

82. OILY LINCTUS.

Take Oil of fweet Almonds, 1 ounce.

Gum Arabic, 3 drams.

Syrup of Marsh-mallows, 1 1-2 ounce.

Mix these well together. Dose. Two or three spoonfuls often in the day, or, it may be acidulated with a few drops of dilute vitriolic Acid-or, an ounce of Syrup of Lemon may be added.

or--83.

Take of Oil of Sweet Almonds,

Gum Arabic,

Syrup of Wild Poppy,

Dilute vitriolic Acid.

Dilute vitriolic Acid, which will give it a grateful aci-

dity. Mix.—Dose, as above.

84. SPERMACETI MIXTURE.

Take spermaceti, (dissolved in a proper quantity of Mucilage of Gum Arabic, or Yolk of an Egg,)

Cinnamon Water,

Syrup of Wild Poppy,

1 ounces.

Mix.—Dose. Two table fpoonfuls occasionally.
No. 85. DISCUTIENT FOMENTATION.

Take of common Fomentation, 2 pints.
Crude Sal Ammoniac, 2 drams.

Common Vinegar, - Spirits of Wine,

} of each 2 ounces.

Mix-

86. CAMPHORATED LOTION.

Take of fimple Lime Water, Common Vinegar, Camphorated Spirits,

of each 4 ounces.

Mix .-

87. ALTERNATIVE MERCURIAL PILLS.

Take Gum Guiacum,

1 dram.

Calomel prepared,
Precipitated Antimony,

of each 2 feruples.

Balfam of Capivi, sufficient to form these into a mass

-and make of every dram twelve pills.

88. DECOCTION OF THE WOODS.

Take Sarfaparilla,

3 ounces.

Guiacum Wood, Saffafras Shavings, of each I ounce.

Boil these in three pints of water till they are reduced to two adding towards the close,

> Liquorice-root bruifed, Then strain it for use.

I-2 an ounce.

or---89.

2 ounces. Take Sarfaparilla, Bark of the Root of Mezereon, 1-2 a dram.

Boil thefe in the same manner as above, and add the liquorice;

90. ANTIPUTRESCENT LOTION.

Take of Lime Water,

16 ounces.

Camphorated Spirit, Spirit of Sal Ammoniac,

3 ounces. 1-2 an ounce.

Mix .---

91. ANODYNE EYE WATER.

Take Rofe Water, Tincture of Opium,

2 ounces.

2 drams.

Mix .---

No. 92. VITRIOLIC SOLUTION.

Take Purified White Vitriol, 6 grains. Rose Water. 2 ounces.

Tincture of Opium, 30 drops.

Mix---

93. DETERGENT GARGLE.

Take Decoction of Barley, Common Vinegar, Tincture of Myrrh, Honey of Rofes,

8 ounces. 1 ounce. I-2 an ounce. 1 ounce.

Mix .---

94. AMTISEPTIC GARGLES.

Take Tincture of Roles, Honey of Roles, Tincture of Myrrh,

8 onnces. 6 drams. 1-2 an ounce.

Spirit of Sea Salt, fufficient to create an agreeable acidity,

Mix .---

95. EXPECTOR ANT MIXTURE.

Take Pectoral Decoction. Ammoniacum Milk, Oxymel of Squills,

8 ounces. or each 3 drams.

Mix.

or-96,

Take Acetated Ammonia, Distilled Water, Myrrh in powder, Nitre purified, Vitriolated Steel, Balfamic Syrup,

2 ounces. 5 ounces. 40 to 60 grains. 1-2 a dram. 15 grains. 6 drams.

Tix .- Dose. Three or four spoonfuls two or three times a ay.

97. SALINE PURGING MIXTURE.

Take Epfom Salt, 6 ounces. folved in Boiling Water, 1 pint. OSE, Two or three spoonfuls every half hour.

98. OILY PURGING MIXTURE.

Take Oil of Castor, 2 ounces. Distilled Water, 5 ounces. nite them with a proper quantity of the Yolk of Egg, or Muage of Gum Arabic, and then add

Syrup of White Poppies, 1-2 an ounce. ix .- Dose. Two spoonfuls every second hour.

or-No. 99.

Take of Oil of Sweet Almonds; I ounce. Manna, Rochelle Salt.

I ounce. 6 drams.

diffol yed

distolved in Insusion of Senna, 6 ounces.

Mix, as before directed, and let this be taken in the same manner.

100. PURGING PILLS.

Take Jalap in powder, Polychrest Salt, Venice Soap, Opium,

of each 1-2 a dram.
6 grains.
1 grain.

Let these be formed into fix pills for a dose.

or-101.

Take Extract of Jalap, Refin of Jalap, Calomel prepared, of each 3 grains.

Opium, I grain.

Syrup of Roses, sufficient to form four pills for a dose.

102. SUPPOSITORY.

Take of Honey, Common Salt, of each an equal quantity.

Boil them to the confistence of a fost pill, and roll a portion of this up about the thickness of a Goose's quill, and an inch long, which pass into the rectum—Aloes, Bitter Apple, or some other ingredient of this fort may be occasionally mixed with them.

103. IRRITATING GLYSTER.

Take the Decoction for Glysters,
Tincture of Aloes,
Common Salt,
Linfeed Oil,

1-2 a pint.
1 ounce.
2 drams.

Mix.—

104. PURGING ANTIMONIAL MIXTURE.

Take Distilled Water,

Epsom Salt,

Tartarized Antimony,

Syrup of Roses,

5 ounces.
2 ounces.
2 or 3 grains.
6 drams.

Mix.

No. 105. CALOMEL BOLUS.

Take Calomel prepared,
Tartarized Antimony,
Conferve of Hips,

from 3 to 6 grains. 1-8 of a grain.

Conferve of Hips,

Mix, with the addition of Syrup, into a bolus, to be taken a bed

bed-time, and in the morning after the following draught:

106. PURGING DRAUGHT.

Take of Infusion of Senna,

Tincture of Aloes, Tincture of Senna, Syrup of Roses, Spirit of Lavender. 2 ounces.

1-2 an ounce.

3 drams.

1-2 an ounce.

2 drams.

Mix .-

107. VOLATILE OPIATED LINIMENT.

Take of Soap Liniment, or the Liniment of Ammonia, Tincture of Opium,

2 ounces.

2 drams.

Mix .-

108. ALGETIC PILLS.

Take Extract of Bitter Apple with Aloes, 1 1-2 dram.

Calomel, 20 grains. Oil of Carraway-feeds, 10 drops.

Syrup of Roses, a sufficient quantity to form pills.

Dose. From ten to twenty grains.

109. APERIENT SOAP PILLS.

Take Venice Soap,

Rhubarb powdered, Calomel prepared, 1 1-2 dram.

1 dram-

Syrup of Ginger, fufficient to form pills.

Dose. Twenty grains.

110. SEDATIVE LINIMENT.

Take Oil of Almonds,

----Amber,

Tincture of Opium,

I ounce.

from 10 to 20 drops

I dram.

Mix .-

111. SEDATIVE FOMENTATION.

Take the Heads of the White Poppy } 4 in number.

Let these be boiled in forty ounces of Water to twenty, then add,

Vinegar, Fixed Ammoniacal Salt, 3 ounces. 5 drams.

Mix .-

No. 112. OPIATED PLAISTER.

Take Burgundy Pitch, a quantity sufficient to form a plaister of a proper size, to which add ten grains of Opium.

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113. OPIATED CORE	IAL MIXTURE
Take Peppermint Water,	6 ounces.
Spirit of Juniper,	I ounce. To A a ser
Opiated Confection,	t dram.
Syrup of Saffron,	1-2 an ounce.
Mix.—Dose. Three or four spoonfuls.	
114. GLYSTER WITH BITTER APPLE.	
Take the Common Glyster Decoction, 8 ounces.	
in which boil	
Senna,	2 drams.
Bitter Apple,	1-2 a dram-
firain, and add.	
Linfeed Oil,	2 ounces-
Honey,	I ounce.
Sal Ammoniac,	2 drams-
Mix.	
115. PURGING PILLS.	
Take Refin of Jalap, or	} 5 or 6 grains,
Scammony,	7
Rub these well with Mucilage of Gum Arabic, and Crumbs of	
Bread, sufficient to form three or four small pills.	
Tale Comment of Decoding or 3	
Take Common Glyster Decoction	or 6 ounces
Barley Water, Tincture of Opium,	I dram.
Mithridate,	1 1-2 dram-
Mix.— some makes	O LAND TOWN SHEET OF
117. DEOBSTRUENT SOAP PILLS.	
Take of Soap,	The state of the s
Myrrh,	of each 1 dram
Ammoniacum,	THE PARTY OF THE P
Ammoniacal Iron,	1-2 a dram-
Rhubarb in powder,	r dram.
Syrup of Roses, sufficient	to form pills.
Dose. Fifteen or twenty grins.	
No. 118. OPIATEE	EMULSION.
Take Caftor Oil,	2 ounces.
Tincture of Senna,	f 1-2 ounces
Opium,	40 drops-
Peppermint Water,	5 ounces.
Syrup of White Poppies,	1-2 an ounce-
Mix-Dose. Three ipoonfuls	COLUMN TOTAL STATE OF THE PARTY
The state of the s	No. 119.

119. OPIATED ANTIMONIAL POWDER.

Take Antimonial Powder,

4 grains. 2 grains.

Opium,

5 grains.

Rhobarb in Powder,

To be administered every eight hours.

120. VITRIOLIC MIXTURE.

Take of Blue Vitriol,

1-2 a dram.

Distilled Water,

1 1-2 pint.

Mix .- Dose. From one tea-spoonful to two table-spoonfuls every two or three hours, till it produces its effect.

121. BALSAM OF PERU DRAUGHT.

Take of Balfam of Peru, from to to 30 grains. Micilage of Gum Aarbic, sufficient to mix into a draught, with

Peppermint Water, Syrup of Ginger,

1 I-2 Ounce. 2 drams.

122. TEREBINTHINATE MIXTURE.

Take Æthereal Oil of Turpentine, from 1 to 2 drams. Mucilage of Gum Arabic, sufficient to form a mixture. 6 ounces.

Peppermint Water, Tincture of Rhubarb,

I ounce.

Syrup of Saffron, 1-2 an ounce.

Dose. Four spoonfuls two or three times a day.

123. INFUSION OF CARROT-SEED.

Take the Seeds of wild Carrot, 1-2 an onnce.

Boiling Water,

1-2 a pint.

When cold, add to it a little Milk and Sugar, and drink it twice a day.

124. TEREBINTHINATE GLYSTER.

Take either of the Glysters, No. 25, 26. in which dissolve, by means of the Yolk of Egg,

Venice Turpentine,

2 drams.

No. 125. ANTIMONIAL NITRATED POWDER:

Take Antimonial Powder, Nitre purified, Crabs Claws prepared,

3 or 4 grains 10 grains. 8 grains.

Mix. 126. VOLATILE SALINE MIXTURE.

Take Water of Acetated Ammonia, 2 ounces. Polychrest Salt, 1 1-2 dram. 3 F 2

Syrup

Syrup of Wild Poppy, Pennyroyal Water,

1-2 an ounce. 6 ounces.

Mix .-

127. MUSTARD WHEY.

Take Bruised Mustard-seed,

Cow's Milk, I quart-Boil them together, and strain off the Whey.

128. GUM GUAIACUM DRAUGHT.

Take Gum Guaiacum, from 20 to 30 grains, Mucilage of Gum Arabic, fufficient to form a draught, with Peppermint Water, 1 1-2 ounce.

> from 20 to 30 or 40 Compound Spirit of Ammonia, Syrup of Saffron, 2 drams.

129. GUAIACUM AND CALOMEL BOLUS.

Take of Gum Guaiacum, 20 or 30 grains. Calomel prepared, 3 grains. Oil of Carraway-feeds, 2 drops. Conferve of Orange-peel, 20 grains. Syrup of Saffron fufficient to form a bolus.

130 STIMULANT PLAISTER.

Take of Soap Plaister, Gum ditto,

Powdered Spanish Flies,

equal parts.

1-8 part of the whole,

Mix .-

131. ANTIMONIAL CORDIAL DIAPHORETIC BOLUS.

Take of Atimonial Powder, 3 grains.

Camphor,

of each 4 grains, Volatile Salt of Hartshorn 10 grains. Aromatic Confection, Syrup of Saffron, fufficient to form a bolus.

No. 132. CAMPHORATED LINIMENT.

Take Camphor, Oil of Almonds,

2 drams-1 1-2 ounce

Mix .-

133. NAUSEATING POWDER-

Take ipecacuanha Powder, I grain. Nitre, or Aromatic Powder 10 grainsy To be taken every third hour.

134- DECOCTION OF SEMIRAUBA-

Take of Semirauba Bark, 2 drams. Distilled Water,

20 ounces boiled to 16 ounces.

Dose. Four spoonfuls.

135. APERIENT COOLING SOLUTION.

Take Vitriolated Natron,

1 ounce.

Nitre,

2 drams.

Diffolve them in one quart of Water-gruel, then add, Syrup of Rofes,

Mix .-- Dose. Eight spoonfuls.

136. GENTLE APERIENT ELECTUARY.

Take Compound Electuary of Senna, 1 1-2 ounce. Precipitated Sulphur, 3 drams.

Syrup of Roses, sufficient to form an electuary.

Dose. Quantity of a Nutmeg.

137. TONIC INFUSION.

Take Peruvian Bark in gross powder, 2 ounces.

Infuse it for three days in

Lime Water,

2 pints.

train and add,

Tincture of Cinnamon, I ounce.

Compound Spirit of Lavender, 1-2 an ounce.

Mix .-- Dose. Two ounces.

138. ALUM WHEY.

Take Cow's Milk,

2 pints-

Alnm.

3 drams.

Boil these together, and strain off the Whey for use. Dose. Four ounces.

No. 139. OPIATED CHALYBEATE BOLUS.

Take of Ammoniacal Iron.

8 grains.

Powder of Antimony.

6 grains.

Opium,

I grain

or Tincture of Opium,

25 drops.

Conferve of Rofes,

i feruple.

Syrup of Quinces, sufficient to form a bolus.

S E C T I O N XVI.

NERVOUS AFFECTIONS.

NDER this head we are to enumerate those particular complaints in which the nerves are primarily and principally concernconcerned, as the causes from whence disorders of this kind are produced.—And here we shall be under the necessity of reasoning from effects, because we cannot point out the precise mode of the action of the nervous system; for neither from the labours of the anatomists, nor physiologists we are certain of the structure of the nerves themselves, nor of the means by which they produce such a wonderful variety of actions in different parts of the human machine.

We, therefore, in order to avoid cavil, attempt to materialize, as it were, qualities; and speak of the different degrees of influence which this part of the fystem exercises; and attributes all complaints arifing from this fource, either to that influence being too ftrong, mutable, or too weak, producing SPASM, CONVUL-SION, or PALSY ;-according, therefore, as we find the different parts subservient to nervous influence affected, so do we consider the different states of its power. And if we add to the account the different degrees of mufcular irritability inherent in the habit, which we confider as independent of nervous influence, yet for its continuance supported by that influence, (27.)-we shall be furnished with a tolerable clear idea of the nature of different nervous complaints, fo called, and be enabled to conceive, pretty diffinctly, the reasons why such an amazing variety of affections can arise from one and the same source; for in spafmodic affections, the mulcular fibres, thrown into a state of contractility, remain in that flate for fome time; in convulfive, contraction, and relaxation take place, and alternate with each other-(145, 146, 147.) and in paralytic there appears to be a deprivation, or debility of that influence; as well as fometimes an alteration in the irritable power of the mufcular fibres, with respect to the different degrees they possess. In the order we have fet down these nervous complaints, shall we treat them; and first-of spalmodic affections :-

CHAP. I.

1. TETANUS;

So called from the Greek word teins, firms—and its varieties —EMPROSTHOTONOS—from emprosthon, ante, before—episton, pone, behind—and TRISMUS, from trizo, stridor. These are marked by different appearances arising from similar causes, The

The TETANUS—is a spassic rigidity of the whole body—commonly continued—and involuntary; if it is bent forwards it is called EMPROSTHOTONOS—if backwards, opisthotonos—when the jaws are fixed close, TRISMUS, or locked jaw.

This complaint is most commonly met with in hot countries; where it is considered as endemial, particularly in rainy seasons succeeding those which are hot, or in such where there are sudden changes from extreme heat to extreme cold, as in South Carolina—among those who imprudently expose themselves to the night air.—In the more temperate countries it is very rare-

y met wich as an original difease.

DESCRIPTION. In tetanus the body grows stiff, and appears like a species of wood, from the equable contractility of the muscles before and behind—a spalmodic affection is selt below the breast bone, verging to the spine—when the spalms are violent, most acute pains come on—the sace is red and distorted—the cheeks are drawn backwards—the eyes fixed—the jaw lometimes locked—the pulse most frequently is slower than what a natural—and should blood be taken, its texture appears to be ess firm—there is much difficulty in respiration—the body is costive—the natural actions only are not suppressed, and the enses both external and internal, remain perfect—the ribs curve nwards—and if the disease should be conquered, the patient continues a long time in a state of great debility.

In the two succeeding varieties, the neck at first becomes mmoveable—afterwards, by strong spasms, it is drawn either ackwards or forwards—the motion of the jaw and the act of wallowing are impeded—the spasm under the breast-bone brings in others which are more violent—the pulse is sometimes slow and hard—at others small, sluctuating, and irregular—the ongue grows rigid—a bloody kind of froth issues from the aouth—the muscles of the spine and inferior extremities are rawn into similar action—at length, either by the spasms becoming more violent, or from an epileptic attack, the unhappy atient expires.—In the third variety, the distinguishing symptom is, a strong contraction of the muscles which elevate the

ower jaw.

These diseases are of the most dangerous nature, as very few arvive the third day, without they come on gradually; and in nat case, if the patient can get over nine or ten days, there is greater chance of a recovery—hence, from the manner of the tack, it is that we are to estimate the degrees of danger.

CURE. The indications here, are to take off as speedily as offible the spasmodic affections, and afterwards to give tone

fration of opium, and the warm bath; for opium given in this way has been known to cure when every other remedy

has been tried in vain.

The quantity of opium to be given at a dose, and its repetitions, depend upon the violence of the spasms—therefore, from one or two to five grains may be given every hour in any convenient vehicle, and the dose may, according to the urgency of the symptoms, be occasionally increased; for in these cases it never stupistes—it may be advantageously used with other spasmodics, particularly associated or musk; and these likewise must be freely exhibited: glysters also of opium dissolved may be thrown into the intestines, joined with oil or turpentine, dissolved in the yolk of an egg; and these must be often repeated, particularly if there is any difficulty of swallowing, or the jaws are closed.

The body must, if possible, be kept open by doles of manna, Polychrest, Glauber's, or Rochelle salt, or that of Epsom, formed into emulsions, with oil of almonds and tincture of senna-or castor oil will, perhaps, better answer the purpose. (See No.

97. 98, 99, 118.)

With regard to warm bathing, those who recommend it order the patient to lie along the bath, and, whilst they are in it, frictions used—when taken out, to be wrapped up wet as they are in warm blankets, and put to bed, having, whilst there, the abdomen fomented, and a bladder full of warm water laid upon the stomach.

The copious exhibition of bark and wine, two or three ounces of the former, and from two to three pints of the latter, in the space of twenty-four hours, have, from their success, been recommended; along with which a blister was applied to the back, and two or three ounces of mercurial ointment rubbed into the throat, in the space of ten days.

Cold bathing has also been used with some efficacy, and seemed to answer, though the patients were plunged into the water during the violence of the sits of pain and spasm.—Oil of amber and slowers of zinc have been recommended amongst the pow-

erful antispasmodics in these cases

From the very different methods used by practitioners in these complaints, which seem, according to our conceptions, to produce such opposite actions on the habit, and both proving successful, I should conclude, that the nature of the habit constitutes the necessity for this deviation.

In constitutions, therefore, which were athletic and robust,

with

with a hard full pulse, I should not hesitate to bleed, and have recourse to the sedative mode of opium, joined with antispasmodies, and warm bathing.

In such as were relaxed, and shewed evident signs of debility, to the stimulant and strengthening: of bark and wine, joined with antispasmodics—blistering—and the cold bath—and in

both, to the local application of mercurial inunction.

And when it proceeded from any local affections, cut off all communication between the part affected and the common fenforium, by dividing the nerve, or amputating the part; for this
has proved fuccelsful, by removing the irritable cause, which
fympathetically induces such dangerous spasmodic affections—
and in cases of locked jaw, a blister should be applied to the
throat.

After the difease is conquered, in order to prevent a relapse, and recruit the strength of the patient, we should have recourse to bark and chalybeates, cold, or sea bathing, and such other modes as we have formerly recommended to people recovering from other severe diseases.

6 2. Convulsions;

from the Latin word convello, to shake or pull, are different in their appearance, though affections of the nervous fystem, from the former; for in all tetantic complaints the muscles continue for some time in a state of contractility—in these they suffer some agitation, by quickly contracting and relaxing-as if in tetanus muscular irritability was so powerful, and the tone of the muscular fibres fo strong, as to be capable to continue the contractile force of the mufcular fibres, brought on by the increafed nervous influence --- in convulsion, as it there was a deficiency of that irritable power, and the tone of the mufcular fibres fo much in a debilitated flate, that relaxation mult unavoidably take place, the mufcular fibres, from the want of that firength, being capable of maintaining that action only momentaneously -or they may arise from the nervous influence, though more powerful than natural, only being exerted in a lefs degree; for we find tetanus and convultion will arife from fimilar causes, and never run one into the other .- hence have they been divided by authors into tonic, from teino, firmo, to strengthen, and clonic, from kloineo, moveo, to move or shake.

Convulsions, therefore, are to be considered as affections of the nerves, by which the muscles are thrown into involuntary contractions and relaxations, whilst, at the same time, the saculties of the mind, and the external senses, remain perfect----Now as these, though different in some peculiar appearances, differ

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not from epilepfy, but acknowledge the fame causes, both re mote or inducing, proximate or immediate, and fimilar methods of cure, we shall proceed to speak of that disease:

§ 3. EPILEPSY, OR FALLING SICKNESS ;

fo called from the Greek word epilambanesthai, disuper deprehendi, to be seized from above. It has various other names, as morbus comitialis, because it was observed frequently to attack people whilst in those assemblies called comitia—morbus facer, divine disease, as appertaining to divinity for its insliction or cure--- puerilis, because of its frequency in children—Hercu-

leus, on account of its violence, and difficulty of cure.

It is a fudden deprivation of the internal and external fenses, with violent alternate contractions and relaxations of almost the whole of the muscles of the human machine, termed convultive;—of which there are said to be three species—cerebralis, from affection of the brain, when it owes its origin to some imperceptible cause, preceded by no uneasiness, except giddiness or loss of sight—when it arises from any manifest cause, and is preceded by some singular sensation, mounting upwards from different parts of the body to the head it is termed sympathica, as deriving its origin from sympathetic assections—when from perceptible irritation the set is brought on, and vanishes on the cessation of that morbid esset, occasionalis.

It differs from convultion, from being accompanied by total infentibility -- in its returning at different periods, though not always regular -- in its being a chronic difease, that often, with-

out destroying life, continues for a feries of years.

DESCRIPTION. The attack of an epilepfy is fomething like that of an apoplexy, the patient falls down suddenly, deprived o all sense: but then they do not, as in an apoplexy, lie quiet, as if in a prosound sleep---in this it is quite the reverse, for the whole muscular system is agitated by such violent convulsive motions, that it is almost impossible for the attendants to prevent the unfortunate afflicted from hurting themselves--- and should, during the violence of the paroxysm, the tongue be caught betwixt the teeth, it will be much wounded, bit through, or, perhaps, a portion bit off.

Sometimes the urine, fæces, and semen, from the violence of the convulsions, will be forced from the places where they are deposited, and blood will pour from the vessels of the nose and ears; besides, there is for the most part, a good deal of froth foams from the mouth, even in the more slight attacks;—as soon, however, as the convulsions cease, the patients lie quiet, as if asleep; and, in about an hour or two, recover their senses,

feet

feel fore and fatigued, yet still are forgetful of all which has

paffed.

Some people have been so expert, as to counterfeit these sits so well, that inattentive observers, though medical practitioners, have been deceived—but we must remark, that a total deprivation of sense and feeling distinguish the true epilepsy—if, then, by the application of strong volatile substances to the nose, or suddenly pricking some sensible part, without mentioning the intent, they shew evident signs of feeling, the deception may be made obvious.

Sometimes, before the fit comes on, it will be preceded by weariness, stupor, head-ach, or giddiness affecting the fight-ringing in the ears--frightful dreams, palpitation of the heart, distinctly of breathing---a fullness of, and rumbling noise in, the belly---the patients also will make larger quantities of limpid urine than usual-stammer in their speech, their countenance will be pale, their extremities cold, and complain of a sensation

of cold air ascending to the head.

CAUSES. The remote or inducing are, wounds, blows, and fractures of the skull---any sluid deluging the brain, or filling the ventricles---an inflammation or mortification off the brain---indurations there, or in the membranes---concretions or polypi within the cavity of the skull, carries of the internal surface of the skull---projections of the bony substance pressing upon the brain-- erosions, lacerations, or wounds of the nerves---the retention of accustomary evacuation, too great fullness or emptiness of the vascular system--strong passions or affections of the mind, particularly sudden and severe frights--noxious particles taken into the machine--poisons, or an hereditary taint; for few diseases it is allowed, are so hereditary as this, as it is so easily transmitted from parents to their offspring. For the proximate or immediate causes, see what has been said in treating of convulsions.

CHARACTERISTIC SIGNS. A convultion of almost all the muscles of the body, particularly those subservient to voluntary motion—with a deprivation of all sensation, and terminating in a state of insensibility and apparent sleep—to which, according to the opinion of some authors, may be added, a soaming of the mouth, and a strong compression of the thumbs within the other singers; for these two are by them considered the certain symptoms of this disease.

CURE. As feveral of the precise causes cannot before death be discovered; or were they, they would be irremediable---we must content ourselves with general modes of cure, and depend upon those applications which have, in a variety of cases from

experi-

experience, proved successful---but where the causes are perceptible, and within the reach of our art, they must be particu-

larly adverted to, and removed.

In this complaint, from undiscoverable causes, a variety of medicines, chiefly empirical, have been recommended---animal oil, oil of amber, (150.)--flowers of lady's smock, twenty grains, increased to thirty, taken in powder twice a day--leaves of the orange tree, a handful boiled in a pint of water for two doses, or in powder, half a dram twice a day--blue vitriol, (139.) twice a day---ammoniacal copper, a quarter of a grain--bark and valerian, joined with cinnabar, (No. 140.)--flowers of zinc, (139.) have been highly spoken of, and said to have performed permanent cures-

According to different constitutional circumstances various

methods have been recommended.

1st, Where the fluids have been acrimonious-or, 2d, in a flate of fullness—3d, subject to affections of the stomach, from indigestion or foulness—or, 4th, irritation of the intestines, from worms or other acrid materials.

In the FIRST case, courses of mineral waters, which best agree with the constitution-goat's whey--sea-water--with cold bathing.

In the SECOND iffues between the shoulders, or on the inside of the thighs—Jetons in the neck—occasional bleeding—and the

body should always be kept open-

In the THIRD, emetics given now and then; for they are of fervice, not only by unloading the stomach, but giving a general shock to the habit; and seem calculated to remove irritation from acrid materials on the origin of the nerves and spinal marrow, or from the dura mater, (26.) which is supposed to be the immediate seat of this complaint.

In the FOURTH, purgatives, joined with calomel, should be administered occasionally, intermediately giving anthelmintics.

(196.)

The mind, at the fame time, must be kept free from any uneasy sensation or unruly passion—the diet should be light, and easily digestible—gentle exercise—free, clear air, and whatever will conduce to preserve an equable circulation of the blood, and keep up perspiration, ought not by any means to be avoided; for where there is a predisposition to convulsive attacks, any irregularity is greatly conducive to occasion a renewal.

If the firs should be of long duration, mustard poultices and blisters are advise thrusting a wedge between the teeth to keep the mouth open-this last is said to prevent even the fit, if applied on any warning being given before the fit comes

on.

When uneafy sensations are felt in the toes, feet, or legs, creep-

ing upwards, ligatures below the knee in these cases have been knowe to prevent the sit-or, in whatever part these affections may be perceived, applying ligatures above the part so affected.

Some, however, advise, during the fit, not any thing to be attempted, except preventing the patients from hurting themselves, by getting the tongue between the teeth; and they are of opinion, little can be done to shorten the paroxysm.

Amongst the most effectual remedies, I have generally thought musk, and have used it with success, joined with diaphoretics and tonics—and, in order to prevent the accession or return, ac-

cational emetics and aperients.

Inveterate and habitual epilepsies are irremediable, as is that also which is hereditary, if it continues longer than the age of

twenty-five.

That species called the HYSTERIC, or UTERINE EPILEPSY, is distinguished from the sex of the patient, from its being intermixed with, or preceded by, hysteric affection—by its following the time of the menses, at its periods—or being brought on by fear, or some such similar cause—and by sensation during the sit, being extremely obscure, though not altogether suppressed.

SYDENHAM fays, in this complaint the patients exert unufual strength, bawl out incoherently and inarticulately, and smite their breast; and that women most subject to this disease, are those who have an uncommonly sanguineous habit, and are high spirited.

Obstructed menses are generally accounted a cause of this disease, which makes its appearance agreeable with the periods of

this discharge.

Should it happen during the flux, besides those things indicated from their discharge and painful excretion, volatile and antihysteric remedies are required, such as oil of amber, spirits of vitriolic æther, castor or animal oil liquor of hartshorn, camphor, musk, &c. (150.)

If from the menses being obstructed, such things should be administered as are calculated to promote the discharge, as madder-root, (139.) tincture of Spanish sies, (175.) ammoniacal iron, (139.) sabine, (149.) bathing the feet in warm water.

Extract of hemlock, (152.) taken for two months, cured a girl feized with an epilepfy, who for five years had experienced

many fits.

Dividing the cartilaginous, or griffly fubflance of the ear with a knife, not extremely tharp, and thick at the back, fo that the division may be large, has been fuccessful, procuring and pro-

moting,

moting, at the same time, a copious evacuation, as long continued as possible.

CHAP. II.

PASSIVE NERVOUS AFFECTIONS.

THE nervous diseases of which we have before treated are obviously of the active fort; but there are others which are associated with inactivity, with respect to muscular motion, and constitute a class of diseases opposite to the former. These are ranked by authors under the terms DEBILITIES and PRIVATIONS; because of the loss of, or weakened action of particular powers in the constitution, which are the distinguishing characteristics of these diseases.

Dr. Cullen arranges these under nervous diseases; and are known by that propensity to sleep, muscular relaxation, and in-

fenfibility, which are their constant concomitants.

But, in order to give a proper idea of these diseases, we should consider the cause of the three predominant symptoms. If we revert back to what has been said, page 27, on nervous incitability, and muscular irritability, and to the introductory part of nervous affections, we shall not be at a loss to account for two of the symptoms.—As for the unnatural propensity to sleep, it is supposed to arise from the nerves not being sufficiently supplied with their proper sluid, either from a defect of the general mass of this enlivening liquid, or from some compression on the nerves, by which its free distribution is impeded.

Hence extreme cold, excessive discharges of blood—congestion, and over distensions of the vessels of the head, of sanguinary or serous shuid in the ventricles, (27.) and cellular interstices of the brain—extravasated blood within the cranium—depression, or fracture of the skull, forcing it upon the brain, so as to compress the medulary part, and prohibit the circulation of the nervous shuid from thence to the several organs of sensation, and instruments of voluntary motion, may give rise to this symptom of

formolency, or unnatural propenfity to fleep.

Now, where this symptom predominates over the rest, those diseases come under the general term COMATA, comatous or sommolent,

nolent, from the Greek word koma, fomnus profundus, à deep fleep- and are defined as diminution of voluntary motion, attended with fleep, or a deprivation of fensation.

§ 1. APOPLEXY-APOPLEXIA;

fo termed from the Greek apoplesso, desuper percutio, to be struck down, is a deprivation of all the internal and external senses and animal motion, except of the heart and chest, attended with oppressed respiration, and sleep more or less prosound. It has been divided into different species, from the cause—first,

into fanguineous- 2d, ferous.

DESCRIPTION. In the first of these, the apoplectic stroke, at the beginning, is accompanied with a florid, or deep red colour of the face, heat, and full pulse; though, in the progress of it, the heat and colour recede—and, on these accounts, it is understood to proceed from an internal cause—the veins grow turgid, the eyes half open, but not transparent—the respiration tolerably free, though attended with snoring, or rattling noise in the throat—and the pulse full and strong. It attacks more suddenly than the serous, without much previous oppression, or unusual sleepiness.

In the fecond, from the beginning the pulse is weak, the countenance pallid-the heat diminished, and it attacks old people, acrimonious, phlegmatic, and debilitated habits-and, before the stroke, it is apt to be preceded by an unusual pain, heaviness, and giddiness of the head, and drowsiness—after the attack, the veins are not turgid, the respiration is more straitened, and there is more of the rattling and snoring, with frothy soaming from the mouth, than in the other-and the pulse is neither strong

nor remarkably full, but inclines to intermit.

Though the apoplectic fit will fometimes come suddenly on-at others, it is preceded not only by a pain and giddiness of the head, but a general torpor of the senses-slowness of speech--a trembling and stupor of the extremities--hypochondriac and hysteric affections--that oppression in sleep called the night-mare-involuntary flow of tears from the eyes—ringing noise of the

ears--and a deeper mode of breathing than is usual.

CAUSES. The remote or inducing are, furfeits, indigestion—too long exposure to the sun—inordinate drinking, particularly about the age of fixty—strong passions, hysteric affections, convulsions, serous collections, libidinous excess, particularly in old men—repulsion of acrid matter, suppression of urine, fallivation interrupted by cold and other causes suddenly—blows and wounds of the head, poisons, noxious essuria, an hereditary

taint—or, indeed, whatever can increase the volume of blood, or occasion a stagnation in the brain, or produce such effects there as will prevent the nerves from exercising their influence, which is considered as the proximate or immediate cause.

It generally attacks those who lead slothful lives--are corpulent and full of blood--have short necks, are hard drinkers at advanced periods of life--it is also most common in winter and

rainy feafons, and is fometimes epidemic.

The CHARACTERISTIC SIGNS. have been specified,

page, 423. line 3.

CURE. Nature has fometimes, by her own efforts, relieved and remedied this complaint, but feldom, by producing fome copious evacuation, as bleeding from the nose, looseness, or a large flow of faliva, though the cure is generally dependent upon

Of whatever nature is the disease, our efforts must be exerted with all possible expedition, to conquer the obstructions, and take off the congestion in the brain, according to the difference of the

obstructing cause.

We must therefore, if the constitution of our patient will bear it, bleed copiously, and from large orifices; first in the arm; if no relief accrues, then in the foot; and, should the habit be full of blood, the operation must be repeated .- The application of cupping-glaffes, with deep fearifications, to the back part of the head is very uleful, to unload more immediately the vessels of the brain-or blood may be taken from the jugular vein, running up the neck into the head-and if the patient recovers fo far as to be able to fwallow, the evacuating plan must be perfifted in-hence quick and powerful purgatives should be administered, (No. 146.) --- but, notwithstanding the sanguinary evacuations, should the patient remain in a state of topor, acrid Ailating glysters, (No. 103, 114.) should be immediately thrown up-and, none of these efforts succeeding, blisters should be applied to the logs and thighs-fome advice an actual coutery to the foles of the feet, to stimulate and rouse the constitution.

The pulse in these cases is commonly soft, full, and slow; but when it is more depressed and unequal, and the respiration deep and laborious, in proportion to the excess of these alterati-

ons, death is nearer at hand.

If the disease be of the serous kind, with regard to bleeding, we must act cautiously; it is rarely requisite; if at all—it must be moderate; or leeches may be applied to the temples—quicks and brisk vomits are in these cases most eligible, such as white vitriol, (168.) tartarized antimony, (168.) or antimonial wine, (168.)—after the operation, brisk purges should be given. (173.)—bl. sters

—blisters applied, and stimulating acrid glysters, (No. 103. 114.)
—emetic wine, tobacco smoke: and volatiles, should be given
pretty freely, (No. 36, 37.) and things similar—and, though
in the sanguineous species sternuratories and emetics are prohibited, at least before the sullness is absolutely taken off, for fear
of bursting the vessels of the brain, in this case they are high-

ly beneficial.

Some are of opinion, that the compression productive of apoplexy seldom or never deduces its origin from extravasation of serum; and think, that whether blood or serum is the case; the same methods are to be pursued to accomplish a cure, as bleeding—brisk purging—applying blisters to the back, legs, and thighs—volatiles and preparations of iron internally, out of the sit—a table spoonful of whole mustard-seed, in gross habits taken two or three times a day—mustard-seed or horse-radish insused in wine, two ounces to be taken at the same periods, I consider a more eligible medicine after the paroxism is over; for it is certainly useful to endeavour to recover the tone of the vessels, which are in these cases apt to be too torpid, and have been debilitated by too great a degree of distension.

One common remedy, which is faid to be efficacious in recovering patients from the fit, has been advised, viz, a handful of falt dissolved in a pint of water, and poured down the patient's

throat.

With respect to bleeding, some preser opening the temporal artery, or jugular vein---and, when no threatening fullness appears, leeches applied to the head, or scarifications with cupping-glasses to the hind head, are esteemed preserable to general bleeding.

Blifters all over the feet are recommended by some, whilst others prefer their application to the head---but, in fine, those remedies are most to be preferred, and the places of application for external remedies, which most speedily promote evacuation

and remove the torpor or inactivity of the veffels.

I should, therefore, upon the attack, recommend bleeding from the arm, and that repeated, if necessary, till the general fullness was relieved—and blisters, or stimulant poultices to the feet, with purgatives—afterwards local bleeding, and the use of stimulating volatiles—and, in order to prevent a relapse in full babits, (60.) the diet should chiefly be of the vegetable kind, light and sparing, that too great plenitude might be as voided—not more than six or seven hours sleep should be allowed at a time—and brisk exercise taken—in lying down, the head should be elevated, and thinly covered—the body kept always open—and all natural and habitual discharges in due order,

for fear any suppressions should take place---hence cold and wet should be avoided, and frictions every night applied to the extremities.

But in weakened and relaxed habits, where the circulation is languid, the veffels fluggish, as in those stiled phlegmatic, (60) issues and setons, as preventives, are advisable---cathartics and emetics should be now and then administered---brisk exercise, and dry frictions---and courses of steel waters;---and, by way of medicine, mustard, horse-radish, (165.) squills, (176.) ammoniacal iron, (139.) myrrh, (165.) and such like, should be occasionally given.

When this disease occurs from a blow, fall, or some external injury, the patient falls down suddenly, or lies as if lifeless—and, on coming to himself, rejects the contents of the stomach blood issues from the nose and mouth—afterwards the pulse rises,

and becomes frequent and strong, attended with heat.

Large and repeated bleeding is in this case requisite, and the evacuating plan, to relieve the ill effects produced by a concussion on the brain---and, should there be any fissure, fracture or depression, chirurgical assistance is absolutely necessary.

There are two other complaints, one called CARUS, from the primitive Greek word karos, fignifying a profound fleep—and LETHARGUS, from lethe memoria abolita, a loss of memory, and argos, ignavus, a kind of state of oblivion—each of which are but a species of apoplexy; and as they require similar remedies, according to the causes and constitutions they artack, little need here be said on these complaints more than what has

been advanced relative to the cure of apoplexy.

CARUS is distinguished by the profound sleep from which the patient can scarce be roused, and in which the patient is deprived of all sense and motion, though having easy and free respiration—and the LETHARGY, by the slight sleep, from whence the patient is soon awakened, answering questions which he is asked, moving his posture; but forgetting every thing, however recent; and on account of that sluggishness, which is its concomitant, not caring for, or troubling his head about any thing—attended with increase of heat,—slow sever—a full pulse, often remitting—respiration not quick—paleness and swelling of the eye-lids—and cold sweat in the extremities.

The CATALEPSY, from the Greek word katalambano, retineo, from the retention of the position in which the attack is made, seems to be of the same species; but as it is attended

with fome striking peculiarities, it merits observation.

DESCRIPTION. The patients are fuddenly feized with the fit, which returns at intervals—a topor of mind or body, or

a head-ach precedes—on a fudden they are deprived of all fense and motion, and constantly retain the first posture of the body and limbs, whether standing or sitting, in which they were when attacked—for the most part, after some minutes, seldom longer, they rise as if from a sleep, the head being relieved from its load, and in a proper situation to exercise its sunctions, though they are totally forgetful of the time which passed in the sit; during which they not only lose all sense and motion; but whatever may be done to them thus afflicted to produce sensation is without effect; for they neither seel, hear, nor see, though their eyes are open, and continue sixed as if upon one object; and when they recover, it is with repeated sighing—still the pulse and respiration appear not affected.

This complaint is of the chronic kind, returns, like an epilepfy, periodically;—fometimes it is simple—fometimes combi-

ned with other difeases.

CAUSES. The remote or inducing are, mental affections—close thinking—suppression of some evacuations—worms—cold—or collection of contaminated serum within the skull.

The proximate or immediate, an irregular exercise of nervous influence, whereby some of the nerves continue to act, whilst o-

thers remain in an inactive flate.

CHARACTERISTIC SIGNS. A deprivation of all fenfation—the patients maintaining the polition of the body and parts in the same state as when they were seized, whilst the

pulse and respiration continue as in health.

CURE. During the fit little is to be done, except to rouse the patient to a sense of seeling, by the application of stimulant, volatile, and seed medicines to the nose—or strong acid spirits—rubbing the neck, spine, and back part of the head with rectified oil of amber and spirits of wine, camphorated solutions, or æther—giving also acrid glysters, (No. 103. 114.)—and if there is reason to conclude any fullness of the head, leeches may be applied to the temples, or the internal part of the nostrils may be scarified.

After the fit, we must have recourse to such things as are calculated to remove the inducing cause—hence, should it be occasioned by too serious thinking or melancholy, in which the viscid humours stagnate in, or circulate slowly through the vessels of the brain, we must apply to such remedies as thin the blood, derive it from the head, and are appropriated to bring on an equable circulation—besides glysters and mild cathartics, we must bleed in proper time, advise brisk exercise, a judicious use of the non-naturals with light, easy digestible and stimulating diet,—bathing the feet in warm water—general warm baths—

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and courses of mineral waters, or milk whey—with bark, steel, or such other astringents as give strength and activity to the

fystem

If from fanguinary evacuations suppressed inducing a fullness of the babits, as the menses or the piles-or any neglect or omissions of accustomary evacuations, from setons, is es, blisters, &c. -we must endeavour to lessen the quantity of circulating sluids, by bleeding in the seet-or, if the apprehension of an apoplexy, should strike us, the inside of the nostrils should be scarified —and afterwards the suppressed evacuations should be attempted to be renewed.

Should worms be the cause, to vermisuges we should have recourse, of the milder sort only, as Indian pink root, cowhage, (197.) powder of tanzy, (197.) as afactida, (149.) rhubarb, (173.)
--these promise to be more effectual than the more acrid.

Should it occur from fevere cold, and any figns of life remain, the patient should be removed into a moderately warm place--gentle friction should be used, the feet bathed in warm water--and the constitution invigorated by pure wine, and warm cordials.

If from mental affections, medicines will avail but little---the chief that can be done is, to keep the natural evacuations regular, support the strength of the system, and recommend cheerful company, travelling, and change of air.

In general, our plan of cure will confift of the most active stimulants and strengtheners -- emetics and brisk cathartics -- with blistering and cupping, to which should be had occasional recourse.

§ 2. PALSY .-- PARALYSIS,

from the Greek paraluo, abolito, vel dissolvo, because of the debility and apparent loss of motion and sense attendant.

It is faid to be an abolition or diminution of motion or fense,

or both, in one or more parts of the body.

When one fide of the body is affected, it is called HEMIPLE-GIA, from emifus, dimidium, half, and pleffo, percutio, to strike or affect—when it affects the superior or inferior parts of the body, transversely above or below the diaphragm, (33.)—PARA-PLEGIA, from para, trans, across, and pleffo.

When it affects any particular parts only, as the tongue, the

lip, the eye-lid, &c. it is a local palfy.

Now all these depend upon the same cause, only it operates upon different parts of the nervous system—for when one side is affected, a compression of one portion of the spinal marrow, (27.) called crus, is the seat—when the interior parts of the body, or

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the legs and feet only, or the belly also, and all those parts at the same time, which are fituated below the diaphragm, the superior parts remaining in a sound state; in the former, the spinal marrow about the first vertebræ of the loins, (32, 46.) is shook, or ruptured beyond the middle of its substance—in the other, from the same vertebræ, it is totally flaccid through the whole inferior part of the spine, and altogether juicelets, so that between it and the bony cavity there appears a remarkable space—or the spinal marrow may be affected much lower down, then the disease discovers itself by inability in walking, and great weakness of the legs and feet.

When the arms and bands are affected, the cause sometimes fixes itself within the superior vertebræ of the neck and back, or passes to the nervous parts of the arms, chiefly the wrists.

And in local palfy, the nerves themselves of the parts which supply the proper influence to them, in order to perform their functions, are affected; or, perhaps, in slight cases, it may be owing to a defect of muscular irritability; for we know, where, from obstruction, or some other cause in the vascular part of the system, by which the parts themselves will not be properly supplied with blood, they are defective in, or lose their motion—

befides, we know great cold will produce fimilar effects.

DESCRIPTION. Generally before a part becomes paraly. tic, patients perceive a paleness there—numbness and heaviness of the part—and a want of activity and quickness of motion—after this, the part or parts thus affected are deprived, in a greater or smaller degree, of the power of feeling, or motion, or both—they soon lose their sirmness, grow flaccid, and become cold—gradually wasting away—or are subject to a soft pasty swelling—the pulse preserves no regularity—most frequently it is small, soft, and slow, sometimes quick and unequal. In the course of time, very often, nay, indeed, generally in that species where the whole side is affected, the memory sails greatly, as well as the power of reason—nay, indeed, sometimes patients are totally deprived of both.

of them, to what occasion apoplexy, such as fanguinay or serous fullness-suppressed evacuations, inebriety, spasmodic colic, spasms of the inferior parts--a congestion of water or matter among the membranes of the brain--wounds of the spinal marrow or brain --a retrocession of external eruptions, scorbutic acrimony, the division of a nerve, sudden fright, an injudicious exhibition and use, as well as the sumes, of mercury, arsenic, and lead--old age, convulsive epileptic disorders--a flaccidness of the brain, and debility of the nervous system--or touching, it is said, the fish called



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nited with fome of the stimulant antispasmodics (149.) are re-

With respect to external applications, in order to promote fensation and motion, volatiles—effential oils—balfam of Perudry frictions with rough cloths, or flannels impregnated with the sums of some of the pungent gums, applied to to the head, parts affected, and the spine, will be of use.

But the most capital and efficacious are the Bath waters—or, where they cannot be afforded, warm baths, sprinkling, whilst in the bath, upon the part affected, a solution of vitriolated

iron. (139.)

Stimulating the parts with nettles has produced good effects,

as well as electricity, particularly in local palfies.

The diet of the patients thus affected should be of the warm aromatic kind, taking with their viands freely of mustard, which also may be applied externally, and horse-radish—drinking a glass of mustard wine twice a day—or a table-spoonful of whole mustard-seed may be administered in a glass of wine—they should use brisk exercise—sleep moderately—and live in a warm dry air—cold must be avoided—and connubial indulgencies very rarely gratised.

When the palfy is the confequence of some other complaint besides the apoplexy, whether rheumatism, gout, scurvy, scrophula, colic, or the venereal disease, the mode of cure will require some variation, adapted to the peculiarity of the case.

Though these complaints frequently terminate fatally in a short time, yet they sometimes continue for a series of years. When the sense of feeling remains, there is much more probability of a certain recovery than in cases where both motion and sensation are lost. A palfy of the lower extremities and abdomen is for the most part fatal, and often attended with a mortification of the diseased parts.

Should the part, however, be painful, have perception, retain a degree of warmth, and does not waste away or a tremor comes on, there may be some expectations of a recovery; but more particularly if a sensation of creeping or pricking be perceived—sometimes sebrile affections coming on have been the means of curing the complaint—and a looseness has been of evident advantage tending to the same end.

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S E C T I O N XVII,

MADNESS-INSANIA.

THIS is divided into two species—Mania, furious madness; and Melancholia, glosomy madness. Not withstanding which division, authors have considered them only as different degrees of the same disease; which is defined an alienation of the mind, or deviation from the rules of sound reason—or a

constant delirium without fever.

This doctrine has been long given us by ARETEUS and TRALLIAN. The former afferts, that melancholy is the beginning and origin of mania, into which it glides more from increase that any other cause—the latter, that mania is nothing more than melancholy brought to a greater degree; as, on account of their close connection, the transition becomes extremely easy from one difease to the other. And HOFFMAN, imbibing this opinion, advances, that from attentive practice and observation, we learn, that both diseases arise from the same origin and containing cause, and vary only in degree and time of invasion, for that melancholy may be justly received as the primary disease. but mania as its exacerbation and accidental effect-which connection daily and every close observation confirms; for melancholic people, particularly if the difease has been of long standing, very readily fall into mania; which eafing, melancholy returns again; although afterwards, at certain periods, they will again be revifited by mania.

DESCRIPTION. The MELANCHOLIC are thus affected—they appear fad, dejected, dull, without any real cause—they are seized with sear and trembling—encouraged with difficulty—are watchful—love solitude—prone to anger, and mutable—enquiring after the most minute trisles, covetous, but soon after simple and profuse—their habits are costive; sometimes having no stools at all; sometimes they are round and dry, surrounded with a black bilious sluid—they make small quantities of uriue, and that acrid and bilious—have great statulence at the pit of the stomach—putrid eructations, sectid and offensive; and sometimes a sharp liquid with bile is rejected—the face is pallid—the pulse is small, dull, and weak—and the fick are at meals

extremely voracious.

The MANIACAL, roused to anger, are wild with rage---fomerun a great way---fome bawl out violently---fome fly from the

fight

fight of men into folitude, and only converse by themselves—
some cut and tear their timbs.—In the height of the disease,
during sleep they are disturbed with visions, are immoderately
lascivious, and openly, without sear or sname, gratify their
desires—but when the disease abates, they are quiet, supid, and
sorrowful—also, coming to the knowledge of their malady,
they are oppressed with grief at their own calamity and misery.
—These are the symptoms which denote the presence, or declining state of mania. The following are such as appear previous to the attack, at least a few of them which have been pret-

ty constantly observed.

The eyes are red and sussufed with blood—there is an irregular vibration of the eye-lids—their usual mode of conduct is altered—pride manifesting itself in their countenance, voice, and gestures—they grind their teeth—conceive a hatred for this or that particular person—get little sleep—have violent head-ach, with quickness of hearing—ringing of the ears, and musical sounds. To this place is worthy to be referred the remarkable strength of limbs, and incredible capability of bearing cold, of which maniacal subjects, in the increase of disease, are possessed, also in women, the collection of blood in the breasts. Beasiles, people afflicted with madness are not subject to be affected by any epidemic disease; and are often cured of other complaints under which they labour, or have their progress sufapended during their state of infanity:

The greatest part of this description, exact and elegant as it is, has been handed down from ARETÆUS, and copied by most of the moderns: and in examining the whole of the symptoms, it will strike us pretty clearly that they must flow from some affection of those parts which are considered as the seat of perception; sensation, and voluntary motion; and these are the different portions of the brain. Even from HIPPOGRATES the idea may have been said to be borrowed, "for," says he, speaking of the brain, "from this part derive we wisdom, and understanding, hear, see, and know good from bad; and also from

this are we infane."

CAUSES. Those which are considered the remote or inducing are, mental or corporeal—the mind being too strongly, or too long continued fixed upon one object—grief. fear, hope, joy, particularly love, totally absorbing the faculties of the mind—ill-founded dread of Divine vengeance, from the false principles of religion;—the membranes of the brain indurated—dryness of the brain—or where the disease is hereditary—too sedentary a life—poisons possessed of a stupisying power—immoderate

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libidinous excesses---fuppression of natural or proper evacuations --- and sometimes it is the effect of preceding sebrile diseases.

The proximate or immediate of melancholic affections may be placed to the too great applause of thick blood, to the weakened and flaccid brain, and its flagnation and difficult progress-but the origin of mania, and foundation to the more violent and impetuous motion of the thick and melancholic blood through the vessels and fibrellse of the brain, or parts of the brain; whence arises, on the one hand, too weak influence, on the o-

ther, too ftrong, of the nervous energy.

CHARACTERISTIC SIGNS. MELANCHOLY, or GLOO-MY MADNESS, is faid to be a partial infanity without indipeftion; or a difficulty of digeftion being a concominant fymptom; for we fay people are infane, when the relations of things altogether falle are conceived in the mind, fo that either the paffions or actions of mankind may be exerted irrationally, or not within the limits of reason---and it is called partial, because melancholic people will do many things, and think on many points, not with proper or well-regulated judgment; yet in some they act and think with some degree of sound reason-

MANIA, or FURIOUS MADNESS, is univerfal infanity, where the whole ideas are fo generally deranged, that no act, or thought, is conducted within the bounds of cool and deliberate

reason.

CURE. All species and degrees of madness which are hereditary, or which grow up with people from their early youth, are incurable; and so, for the most part, are all maniacal cases that are above a year's standing, originate they from

whatever fource they may.

Very often the remains, or dregs of some particular disease, as intermittents, small-pox, nervous sever, give rise to different degrees of soolishness, or madness, termed amentia—the cure in this case must be attempted by nourishing diet, clear air, moderate exercise, and the use of wine; not by evacuations, which in almost all other cases of infanity are generally thought necessary, unless the constitution of the patient be such as absolutely to forbid them.

And here we must enquire what kinds the patient can bear best; and these should be proportioned to his strength; else, from being violent, though they may, perhaps, cure surious madness, they will be apt to bring on incurable dejection of mind, and melancholy.

If patients, therefore, are of a strong habit of body, full, and symptoms of mania from melancholy make their appearance; or, in the earlier stages of melancholy, the vessels shew signs of

pleni-

plenitude, bleeding may be had recourse to, either in the arm, jugular vein, and sometimes by cupping, if any affection of the head requires it; or, should the patient's weakness forbid the taking away much blood, leeches may be applied to the temples.

In recent cases though this is generally attended with most fuecess; but if of some continuance, similar advantages have not

been derived from it.

In melancholy, however, bleeding must be sparingly used in mania more freely—and some consider opening a vein in the arm sufficient--bleeding the patient in an erect posture till near fainting—which proves some diminution of the sullness of the vessels of the brain taking place.

Vomiting, in weakly people, with ipecacuanha, (168.)—in the more robust, with antimonial wine, or tartarized antimony has been thought preferable, (168.)—in mania it may be a doubtful remedy, by determining too freely to the head, in melancholy it

may be more freely used.

Purging is extremely useful---the most efficacious cathartics have by some been thought insusion of senna, (No. 106.) quick-ened with one or two drams of the tincture of jalap, instead of tincture of aloes, and senna—but the frequent use of cooling purges have, from experience been recommended. (No. 147, 148.)

But should there be an obstruction of the menses in women, or the piles in men, a reproduction of these evacuations are thought necessary—the aloctic purges, (173.) (No. 106. 108.) then will be the most proper—and these evacuations by vomit

and stool require to be alternately repeated.

Diureties have been considered by some of the greatest moment, especially if any degree of sever should accompany infanity—but this will happen more in maniacal cases; for melancholic subjects, for the most part, make too much water—the most proper diuretics are, the vegetable alkali prepared, (191.) and the diuretic salt, (176.) and these may be given in large doses alternately, two or three times a day.

Besides these, discharges by the pores of the skin are to be

promoted.

HOFFMAN particularly recommends the warm bath, who has feeu numerous inflances of melancholic and maniacal cases cured by this means. Dr. Cullen is of a contrary opinion, and has found it rather hurtful to maniacs—though to rigid melancholic habits it may be useful, or exhibited in form of a partial half bath, pouring at the same time cold water upon the head and superior parts of the body.

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From camphor having been faid to prove fuccessful in forming radical cures, Dr LOCKER gave it in large doles, but without fuccels-though he found camphor diffolved in vinegar had good effects-he thought then the efficacy might depend upon the vinegar-he gave one ounce and a half of distilled vinegar every day, after having first prepared the patient by bleeding and purging, which he fometimes occasionally repeated-eight by this method, and none of them took more than from fix weeks to three months, had the cure completed. He recites the following effects, foon after they began the use of vinegar-their eyes lost their wild staring look, and presently after became calm and quiet, it acted chiefly by sweating; and the more they sweat, the founer they were cured --- the menstrual discharge in such as were obstructed, or had too little of this falutary evacuation, was promoted or increased. From this account, and from the fimplicity of the medicine, it ought certainly to undergo farther trial.

Blistering the head has been thought useful—and, perhaps, it may, says Dr. Mead, in cases of long standing; but, in preference, he recommends shaving the head after the manner of the ancients, and rubbing it often with warm vinegar; and also passing a seton in the nape of the neck. Dr. Guilen is of a contrary opinion, for he says, "in recent cases, blistering the head has been found useful in inducing sleep; and when it has this effect, the repetition is proper—but in maniacal cases that have lasted for some time, blistering has not appeared to be of any service"—and in such cases he has not found perpetual blisters, or any other form of issue, prove successful.

However, setons and issues I consider in all cases of mania extremely serviceable, by preventing a fullness coming on the habit, from the constant drain, and this in an easy and gradual

manner.

A frequent use of the cold bath in cases of mania is very serviceable; for Celsus says, nothing is so beneficial to the head as cold water. In order, though, to render this remedy the most effectual, the maniac should be plunged into the cold bath by surprise, and detained in it for some length of time, frequently pouring cold water upon the head; so, with the assistance of fear, a cooling effect may be brought on -- this has often been useful; as has also the application of ice, snow, or the clay-cup to the naked head.

To procure rest, Dr. Monro used to give two drams of borax, camphor, musk, and other medicines of that class, have been preferred to opium, in order to procure sleep; for in maniacal cases opium is usually forbidden-but there are instances, where,

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in large doses, it has proved a cure-and, perhaps, if it were tried oftener, more powerful effects may be derived from it-and after large evacuations and proper bleeding, and where there was no appearance of inflammatory affections of the brain attending mania, and the patients were restless. I should not hesitate in having recourse to it, for two or three times; which, should it be found to exasperate the disease, might be easily left off--if otherwise, the effect would authorize the pursuit.

Constant and hard labour has been recommended; because it is said, forced attention is a very certain means of diverting the mind from pursuing any train of thought; and from hence its utility--also a journey carried on for any length of time; during which, complete cures of mania have been known to be effected from diverting the attention from disagreeable and painful af-

fections.

These are the remedies which are generally applied in cases of mania, or in such cases of melancholy as seem to be approaching to that state-but there are some deviations necessary to be observed where infanity is in its primary state, without such apparent tendency.

In both cases, however, costiveness ought to be avoided by the use of gentle aperients, particularly in melancholy, the draf-

tic purges are better omitted.

Blood-letting will here be feldom necessary, except under the

particular circumstances before specified. (p. 434.)

Warm bathing is also preferable to cold bathing; because we consider here the nervous system in too torpid a state, and requires the study to be solicited externally, and not thrown too much internally, lest want of proper incitability of the nerves should permit the internal parts to be too much loaded, from the vessels being incapable of producing re-action adequate to the external force.

Nor should opium in cases purely melancholic be had recourse to; for the action of its sedative power would contribute to add

much to the nervous torpor.

The diet in maniacal cases ought to be perfectly light and thin, and such as is neither stimulating nor nourishing---hence vegetable diet is the most proper---but should in melancholic cases be used with caution, as, where the stomach is torpid, such viands are apt to eccasion symptoms arising from indigestion.

As nothing is more conducive to the recovery of patients labouring under infanity than proper management, to this point much attention ought to be paid; and in the two states of the

disease different modes ought to be adopted.

The violence of the mania is to be reftrained, and the def-

pondency of the melancholic to be diffipated---the former we are to keep in subjection by chiding and threatening---and it must be remembered, that mad people are always cowardly, and can be awed by the look of a very expressive countenance--and when those who have the charge of them once can impress them with the notion of fear, they will readily submit to any thing required--and this is much better, and infinitely more humane than beating them, or chaining them down in dark cells or rooms, as was formerly the custom when they were outrageous---the strait waistcoat, or tying their legs down to the foot of the bed, if the former succeeds not, will be sufficient for preventing them from injuring themselves or others.

The latter should be encouraged and foothed, and diverted by concerts of music, or any other pleasing entertainment, in which they have been known to take delight whilst in their rational

state.

A mistaken humanity often prevents the friends of unfortunate infane people from putting them under the care of strangers, and sending them from home---this, however ought to be complied with, for, whilst at home, and amongst their friends, the cause and continuance of unpleasing ideas are apt to be too frequently renewed, and subjection is infinitely more difficult to be acquired; still, the prevention of the one, and the attainment of the other, are essentially necessary.

In these cases the head is apt to be affected with fullness; therefore, where circumstances will permit, the patients ought to be kept as much in an erect posture as possible—indeed, should there be no perceptible symptoms which indicate such a preternatural sullness, or an increased force of the blood-vessels in the brain; for an horizontal position always augments the sullness and tension of these vessels, and therefore may increase the

too-powerful action of the brain.

To prevent a relapse, wich is very apt to recur, the plan of medicine and diet here laid down ought to be repeated for a confiderable time, at proper intervals, after the patient has recovered—and chalybeate waters and the cold bath will also be highly proper, to strengthen the whole frame, and prevent a return of this unhappy disease—from which to relieve our patients must afford satisfaction inexpressible.

SECTION XVIII.

AFFECTIONS OF THE LUNGS.

§ 1. COMMON COURG, OR TUSSIS.

THIS complaint is so common, and so often experienced by almost every individual, that a minute description seems unnecessary; but as from neglect it may be, and is frequently, attended with disagreeable consequences, it will be useful to see how these originate, in order to shew the necessity of attending to this complaint, though apparently trivial, and taking it off by the readiest and easiest means, in order to prevent subsequent mischies;—to this, which is occasioned by what is called catching of cold, and the hooping, or convulsive cough, we shall confine ourselves.

And of the first we say, a cough is a concussion of the lungs repeated at uncertain periods, induced by some irritating cause acting on their internal surface, or that of the windpipe, (29.) occasioning quick reiterated action of the muscles of the ribs, diaphragm, (33.) and belly; and this irritating cause by some means obstructs perspiration, and determines the matter, which should pass off by the perspirable pores, too freely to that organ, or part leading to it—and chiefly, as it is termed, from catching cold, for the most part attended with hoarseness, running of the nose, sneezing, chillness, and sometimes with slight degrees of febrile affections. People thus affected generally cough up mucus from the lungs, now and then of a yellowish colour, and viscid; which, when expectorated, puts a period to the sit of coughing for that time.

From what has been faid, the indications of cure will be ob-

vious.

To remove the irritating cause, and guard the lungs, so that, till it is removed, they shall not seel too sensibly the effects of that stimulus—and these are performed by restoring perspiration—evacuating the morbid mucus, sheathing its acrimony, rendering the lungs insensible to its effects—and giving proper strength to the vessels of the lungs; for, by the repeated shocks and distension, they become debilitated.

And these will be accomplished, for the most part, by very easy means—by avoiding cold—keeping the breast warm, by

wearing flannel over it, drinking warm liquids in the morning, and at meals warm water, or inhaling the vapour—taking the compound decoction of barley, linfeed, or bran-tea, with honey and nitre—or drinking at night barley-water, fweetened and warm, in which is diffolved the yolk of an egg, or taking any gentle diaphoretics, (178.) or small doses of antimonial powder, (180.)—these, or some of these, early applied, will readily prove effectual.

But should the complaint be obstinate and violent, bleeding may be necessary, and a spare diet—saline, and antimonial medicines may be given, (No. 6 to 9.) to which may be added camphorated tincture of opium, (152.) or nitrous medicines, (No. 2.) may be joined with antimonials, and some of the liquids before spoken of adhered to—the body should also be kept open, and the urinary discharge promoted, by gentle aperients and diuretics—linctusses and emulsions, (No. 81 to 84.) may also be occasionally administered; and are very useful, if swallowed gradually, particularly should there be a tickling upon the top of the windpipe, which sometimes appears to be the principal cause of a cough, especially in the beginning.

At the latter end of the complaint, if the cough should continue, though not violent, but come on now and then, and there should be expectorated tough, viscid mucus, the ammoniacal mixture, (No. 141, 143.) given three or four times a day, I have found serviceable, not only in promoting an easy expectoration, but strengthening the vessels of the lungs—and where I find people subject to frequent returns, after the cure, benefit may be derived in the prevention, by bark given twice a day

for a little time.

During the feverity of the complaint the patient should be advised to keep much within doors, avoid the night air, be rather warmly clothed—particularly keep the feet warm—and by these means success is certain.

But should the complaint be long neglected, from the repeated stresses laid upon the lungs by continually coughing, hard glandular tumors, called tubercles, are not rarely formed—fometimes the vessels of the lungs are ruptured, by the blood being so often too forcibly thrown into them—in both of which consumptions have been the consequence—the cough then begins to put on another aspect, and induce a disease of a very serious nature; for the relief of which the reader is referred to Pulmonary Consumption. (331.)

\$ 2. HOOPING, OR CONVULSIVE COUGH.

It is so called from the violence of the concussions, and that particular

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particular noise of hooping which is observable in the fits of coughing—also chincough, from the Dutch word kincken, to pant—in medical language TUSSIS CONVULSIVA, or PERTUSSIS.

DESCRIPTION. In the beginning chiefly there is a dry cough, in which there is not thrown up any, or a very fmall quantity of thin ferum, more or less acrid-fometimes the cough is moift, and then a blackish or blue mucus, often extremely tenacious, is evacuated --- at the fame time, the extremities grow cold --- the bowels are coffive --- the urine is thin --- and the blood is forced up copiously, and with great force, into the superior parts, breaft and head; from whence, during the fit, the face grows turgid with blood --- the veins swell --- the arteries beat ftronger and quicker----the eyes appear prominent---the tears flow -- the eye-lids puff up -- and fometimes the blood, particularly if a fneezing comes on, is forced out from the noffils--fometimes the veffels of the lungs are ruptured, and there arifes a spitting of blood --- a hiccough often accompanies it, and very often vomiting .- With respect to the convultive affection, it does not appear generally till the fecond or third week from the attack; 'till that time, it appears like a common cough, and then it comes on at different times of the day, and continues till fome mucus is thrown up by the lungs, or the contents of the flomach evacuated, and then it ceases -- when it has put on these appearances, its time of continuance is uncertain; it may go off in a few weeks, or remain fome months .--- Before the fits come on there is some warning given, chiefly an uneasy fensation in breathing, and children will at this time catch hold of any thing that is near them, in order to support themfelves during the fit of coughing, which they dread.

But there are some cases where this arises from a peculiar infection, that appears only like a common catarrh—still it is most commonly, indeed, almost always, with a peculiar kind of sound, different in different cases, during some parts of the coughing called booping, occasioned by many expirations being convultively made, rapidly succeeding each other, whence a great quantity of air must be thrown out of the lungs; which circumstance necessarily requires a full inspiration to succeed—in this act the air rushes with unusual rapidity through the superior part of the windpipe, and occasions that particular noise, which forms the striking and characteristic marks of the

difeafe.

Various have been the opinions of authors respecting the seat of this disease--but if to what we have said, the occasional or accidental causes, which are apt to bring on the sit, be added, such as violent exercise---full meals---food difficult of digestion

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—irritation of the lungs from smoke, dust, or disagreeable odours---strong passion---or other considerable emotions of the mind---the relief occasioned by vomiting or expectoration of mucus freely, and the propensity to coughing being less when the stomach is empty---we shall not hesitate in concluding the lungs or the windpipe are the parts of the constitution affected; and that predisposition in the parts to feel the effects of peculiar infection form the immediate causes of the disease, and also authorise us to say,

That the HOOPING-COUGH is a reiterated and violent concuffion of the pulmonary organs, induced by the convultive action of the muscles of ribs, diaphragm, and belly, brought on by the stimulus of peculiar infection acting upon the lungs or windpipe, attended with a sense of strangulation, repeated sonorous inspiration, and often with vomiting and expectoration.

CURE. The indications of which are, to correct or evacuate the peculiar infectious matter---to alleviate and lessen the violence and duration of the cough—and prevent those mischiess which are likely to arise in the habit, or parts of it, from its excess:

But as we know of no means either to correct or clear the conflitution of the morbid matter creating the difease, on these we can make no attempt—we must therefore imitate nature in her efforts, by such means as experience, sounded on the know-ledge of the laws of the animal economy, will point out to us,

in accomplishing the two fucceeding indications.

In full habits, therefore, if the face swells much in coughing, looks red, and also the eyes, and other appearances of local plenitude shew themselves, bleeding is estentially useful; and this must be repeated so long as such appearances render it nenessary—but this must not be pushed too far; for then we should increase the convulsive affection—hence, in the slighter kinds of the disease it may be omitted—the body should be kept moderately open, not less than two or three slools procured every day—violent pussing, for the reason above recited, might be hurtful.

Gentle vomiting every day is beneficial in the forenoon, by small doses of antimonials, one or two spoonfuls of the emetic mixture, (No. It.) for a dose, or as much as will produce the effect—and should any severish symptoms attend, a quarter of half a grain of tartarized antimony may be given at night with the powder, (No. 2.) lessening or increasing the dose according to the constitution; for this mode not only does good by the shock it gives to the habit, assisting expectoration, and clearing the stomach, but by determining the shody open; which last if it does not do, a little magnesia, or some other cooling purga-

tive

five must be added—by persisting in this mode, till evident symptoms of amendment presented themselves, then omitting the vomit to every second or third day, afterwards giving it once or twice a week, has been crowned with desired success.

But, notwithstanding, should symptoms appear indicative of an inflammatory tendency on the lungs, which will be shewn by difficulty of breathing, fever, and quick pulse, where no coughing for some time has preceded, blisters then should be applied,

particularly on the cheft.

Rubbing the pit of the stomach, and down the spine, with equal parts of rectified oil of amber and spirits of wine, where there has been no inflammatory symptoms, or sebrile tendency; or after these had gone off, has been considered of great use; but bleeding and purgatives, when necessary, have preceded their use.

Small doses of hemlock, (152.) have been given with apparent success; and is by much the best amongst that class stiled

specifics.

Towards the close, where mucus appears viscid and difficult to expectorate, the ammoniacal mixture, (No. 141. 143.) is not

an unprofitable medicine.

The stimulating tonic mixture, (No. 144.) has been spoken of with exaggerated praise, but I think too indiscriminately—early in the discase I would never recommend it, particularly in full habits with an instammatory tendency.--though in the latter stages, where evacuants have preceded, I have given it with apparent advantage—and, perhaps, in weak, delicate constitutions, it may be exhibited at an earlier period in small doses two or three times a day, till a slight strangury is excited—the dose may either be diminished, or given at longer intervals.

However, in the general mode of manangement, I should, in the beginning, recommend vomiting and aperients, with bleeding, blistering, and use of antimonials, if necessary—small dofes of cicuta—and where no febrile symptoms declared themselves, external antispasmodics.

When the symptoms had confiderably abated, tonics, particu-

larly bark, should supply their place.

And, in the first period, the diet should be abstemious and sparing, as in inflammatory sever, if the symptoms ran high.—
In the second, the mode of living should be more generous—
and should the lungs be weakened by the violence of the disease, a course of as, milk, riding exercise, pure, clear air, and the use of bark, would be proper.—Indeed, in some cases,

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change of air is highly necessary, and very often alone produces

the most salutary confequencer.

We must observe here, that often, when the coughing fit is over, the patients are almost always perfectly relieved; but should they not, and the difficulty of breathing should continue, and there be any confiderable febrile affections, there is danger, which must ever be suspected; for few die but under these circumstances --- now and then bringing on immediate suffocation. and fometimes confumption --- and often attended with extremely troublesome and painful affections; but it will sometimes occur in fo mild a state, that all fear is unnecessary --- and this will manifest itself by the gentleness of the symptoms; for though the complaint should be completely existing, accompanied with its certain symptoms of convulsive cough and hooping, if these should be moderate, and their returns observe distant periods --- if the ejection of mucus from the lungs should he in no great degree --- the difficulty of breathing and febrile affections do not manifest themselves --- and between the fits the patient preserves his common habits of health, and the symptoms gradually decrease, nature will be her own phylician--in these cases little is necessary to be done.

63. ASTHMA.

from the Greek word as vel aemai, anhelo, to breathe with difficulty. Though authors have divided this disease into different species they may all properly come under one head, confidering them, as they truly are, the same, only differently circumstanced; or arising from other diseases in the habit, and merely symptomatic; we shall therefore consider them under one head, as assume in its different states, whether periodical, continual, or acute.——If the difficulty of breathing returns periodically, it is termed ASTHMA——if it is chronic or continual, DYSPNÆA, from the Greek word dys, difficulter, and press, spiro, to breathe——if it is acute and violent, comes on suddenly, and foon terminates, and returns not again, ORTHOPNÆA, from orthos, rectus, upright, and press, spiro, because the patients can only breathe in an erect posture.

DESCRIPTION. Before the difficulty of breathing comes on, patients complain of a tightness in the region of the stomach, which is distended, and wind passes in considerable quantity upwards—they then begin to be hot-are heavy and dull, complain of a pain of their head, are fick, and make a quantity of pale urine, their spirits become depressed, the lungs feel a degree of inactivity and stiffness—the breast is more than commonly load-

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ed-they grow hoarfe, are fick, breathe with great difficultyand experience almost universally a kind of stupor, from the contracted state of the cheft, inspiration and expiration are performed flowly-and, indeed, so uneasy are they in the execution. that they elevate their shoulders, and extend their necks, in order to get relief in their manner of breathing-very frequently they vomit materials of different kinds-fometimes viscid flimy mucus, fometimes green or vellow bile-in the violence of the fit, they have a palpitation of the heart, a livid colour of the face, and feel as if they thould be fuffocated-when the spasmodie conffriction remits, they spit up viscid phlegm, which tastes differently, intermixed with which are black coloured fireaksthe urine now changes its colour to a deeper hue, and deposits a fediment-all the symptoms increase at night, and are worse in bed-patients feel most alleviation in the open air-as foon, however, as the paroxylin goes totally off, the expectoration ceases.

From this account, though concife, it appears, that whatever will impede the passage of the air into, or the free circulation of blood through the lungs, either by affecting the lungs themfelves. or diminishing the capacity of the cheft, will produce this complaint-hence the remote or inducing CAUSES are, thick, denfe, fo gy air-or air impregnated with noxious particles or vapours received into the lungs-the aperture of the glottis, (the narrow Dit at the upper part of the windpipe.) being fo contracted, or closed up, and the passages leading to it from the parts about the fauces being much swelled, and the investing membranes covered over with a mucous or purulent exudation; or themselves greatly thickened; or the aperture may be thut by the mufcles of the windpipe being affected with spasmodic contractions. which is not feldom the cafe-accumulations of watery, purulent fluid collected in the cellular fubstance-earthy concretions, or schirrous tubercles formed in the lymphatic glands dispersed through them-tumours lying contiguous to, or adjoining the langs-extraordinary quantities of fat collected in the cheft. particularly about the large blood-veffels-too copious fecretion, or a deficiency of the mucous which lubricates the branches of the windpipe-blood issuing from the extremities of the arteries into the air veffels-by an over diffention of the blood-veffels in the lungs-spasmodic affections or pain affecting the the muscles destined for respiration, especially the diaphragm, (33)fpalmodic contractions of the branches of the windpipe from internal causes-collections of water, blood, and matter within the cavity of the cheft, swellings of the belly from dropfical collections, enlarged vifcera, or from a fœtus-and, indeed, from an unnatural fmail-formed cheft --- ftrong pations, old ulcers healed;

any accustomary or critical evacuation thrown back into the habit---wounds of the diaphragm, with a variety of others---and according to the nature of the acting causes, so thall we find the nature of the disease—but as in a work of this kind we cannot go into the minute particulars, we shall confine ourselves to two; of one or other of which almost all asthmatic complaints consist, viz. the bumid and spasmodic; or convulsive.

CHARACTERISTIC SIGNS. A difficulty of breathing, with ftraightness of the chest--fometimes continual, at others periodic -- and sometimes acute, violent, and not subject to re-

curn.

DISTINCTIONS. Such as are affected with the humid, or moist ashma, are seldom free from cough, and, before the accession of the fit, they have some signs indicating its approach, as languor-loss of appetite, oppression, a statulent sullness of the stomach--after these there comes on a violent difficulty of breathing--there is no certainty of the duration of the sit, as it is from a sew hours to three, some, or more days--still the sense of suffocation and difficulty of breathing is so distressing, that the patients are scarce able to lie, speak, or expectorate--yet an inflammation of the lungs seldom succeeds the sit, notwithstanding there appears such violence affecting that organ--as it terminates, the breathing begins to be more free---mucus is expectorated--the urine changes to a darker colour, and deposits a copious sediment.

From the humid assume, the dry or convulsive is distinguished, from the suddenness of the attack-a pain and cramp affecting some part of the breast, particularly if any part of the breast has been injured formerly by a wound or blow---from the violence of the symptoms---but the most certain sign is said to be if a convulsion of any other part be present, or has preceded.

Indeed, both these species may be considered, and not improperly, of the nervous class; one having affociated with it as accumulation of viscid phlegm in the lungs, the other free from

fuch a congestion.

CURE. In full strong habits, in fits of the asthma, bleeding may be had recourse to; and, if the constitution will bear it, and the continuance of the violence of symptoms require it, it may be repeated—but in those which are delicate and debilitated, of ar advanced in life, it is more judicious to omit it—as soon a possible afterwards, the glyster, (No. 26.) in which from a halto a whole dram of asasetida, or more, may be dissolved, should be administered—and if these do not in a short time prove estimations, a blister should be applied between the shoulders.

Vomits should be administered, (No. 11, 12. 38.) either wi

answer the purpose; but not till expectoration comes on with some degree of freedom; for, in the height of the sit, they might produce mischief, by creating too great an accumulation of blood in the head, and occasion not only dangerous, but fatal symptoms---indeed, if the stomach is loaded with any kind of soulness, vomiting will often prevent the asthmatic sit.

A strong infusion of roasted coffee has been known to allevi-

ate the fit.

In order to promote expectoration, emetics should from time to time be given, and compositions formed of the attenuating

gums, (No. 141. 143. 145.)

Gaelic is useful, (165) or extract of tobacco, (153.) is supposed to be capable of being so managed as to exceed all the rest of our medicines for this purpose: for tobacco chewed by those unused to it till it has brought on sickness, and then going to bed to sweat; afterwards repeating it, has, we are told, cured the fit.

Squills, (176.) mixed with other expectorants, (164, 165.) increase their power, or are themselves active; and also soap mixed with the gums before mentioned.

And in all cases where the body is costive it should be kept gently open; for which purpose the pills, (No. 103, 109.) may

be used.

If opiates dare be administered in the humid ashma, they should always be coupled with expectorants and volatiles—to which end, drops of opiated tincture and salt of hartshorn may be added to the feetid attenuant mixture, (No. 145.) for these may prevent the opiates from making the mucus too viscid, or hindering expectoration from going on.

Diuretics are also beneficial, particularly in those who have

an acrimonious state of fluids.

Though very great caution is necessary in the humid assimal in our exhibition of opium, yet in the spasmodic species it may be given with more freedom; though it should be joined with

fuch aperients as will keep the body open.

Cold bathing in an artificial falt bath, or in the sea, which is the most eligible and certain, has proved efficacious in those asthmas where, from the predisposition in the lungs to become irritable from slight causes, this complaint was brought on, except some peculiar circumstances forbid the use, as tubercles, dropsy of the chest, ulcers in the lungs, &c. &c.

Some have been faid to die suddenly from suffocation in this disease; but this has generally been found to be from polypus in the lungs---partial pally, or some species of dropsy, has been

its termination.

Issues in both species are recommended in the inside of the

thighs just above the knee.

Light diet, easily digestible, and not statulent, is the most proper, and riding on horseback ought not to be dispensed with,

because it is always extremely beneficial.

With respect to situation, the patients ought to be left to themfelves, and fix in that in which they are most lively and comfortable, and wherein they can breathe with the greatest freedom; for I have known the air of London more falutary to some than the purest in the country.

Those of sanguine habits, with straight chests, who have been subject to frequent coughs, are most liable, in the latter part of life, to sall into asthmatic complaints, particularly if they are gross and fat---and it rages more in summer and autumn, than

in the winter.

We shall find, by the enumeration of the remote causes, this complaint may be the consequence of others, and is itself, therefore, purely symptomatic---to the original disorder we are to advert, at the same time that we use modes proper for the alle-viation of this distressing symptom-

6 4. SUFFOCATING CATARRH-CATARRHUS SUFFOCATIVUS.

We must be careful not to confound this with the TRACHEAL QUINSY, or CROUP, (p. 317. 320.) because some authors have given the same name to this: notwithstanding, we shall find them widely different, and that they require different modes of cure—that being an inflammatory affection of the branches of the windpipe, requires bleeding, which might be highly serviceable—this being spasmodic, bleeding would be as injurious.

DESCRIPTION. In this complaint there is a peculiar kind of shrill croaking, accompanied with a quick and difficult breathing, attacking violently and suddenly, and generally in the night—from the singular noise, we may easily distinguish it from inflammatory affections of the lungs, which never attends them,

and always makes its approach more gradually.

CHARACTERISTIC SIGNS. A fuffocation arising from a spalmodic constriction of the lungs, or rather windpipe, or a

fpalm of the diaphragm, without hysteric affections.

CURE. We mult here endeavour to take off the spalmodic affections as soon as possible, by blistering the back, and the copious use of as feetida, giving glysters of a solution of this sum, and pouring the same down the throat: and if the fit abites, or is conquered by these means, bark must be given freely, to prevent a return.

To a child eighteen months old, some have given an ounce of ala særida in solution, and injected as much by glysters, in the space of forty eight-hours.—In so short a time it will probably be very difficult to get a child so young to swallow so large a quantity.

However, in smaller doses it has been equally efficaciousalternate doses of musk and asa færida will answer the purpose,

in conjunction with the glyfter-

This disease is often met with in children, and is in some seasons epidemical—but it very frequently proves so suddenly mortal, that medical assistance is of small consequence.

§ 5. Spurious Peripneumony-Peripneumonia notha.

from the Greek word nothor, fpurius.

There have been different opinions concerning the feat of this complaint, though all agree respecting the affection of the lungs, yet differ with respect to the part—some affert that it is the small branches of the pulmonary arteries, and those of the wind—pipe—others, that it is in the cellular substance of that organ, that is, the membrane which connects together all the parts of which the lungs are formed, and is the same connecting medium which unites the smallest fibres of the body with each other-

See Lungs and Cellular Membrane.

I confess myself of the latter opinion; for, though expessoration has been carried on freely in this complaint, the patients notwithstanding have died, which is not the case in humoral ashma, or the inflammatory peripneumony, where the air vessels, or the small branches of the pulmonary artery, have been asseded; for, under these circumstances, the lungs have an opportunity of freeing themselves from the oppressive load, by the free communication those parts have with the windpipe—whilst, on the other hand, in order to form a cure, the offending matter must be thinned sufficiently to be re-absorbed by the lymphatics, and carried back into the course of circulation. We have thought it necessary to premise thus much, in order to surnish a persect idea of the complaint, which, we think, will farther be corroborated by the symptoms and consequences.

DESCRIPTION. In this complaint, though there are chillness and heat alternating with each other, yet neither is the heat,
pain, or thirst, in any great degree—the pulse is frequent, weak,
and small—it is often attended with, or there is a strong propensity to, vomiting—giddiness or pain affects the head—the patients cough, and experience a sense of weight in the breast, with
a difficulty of breathing, and tightness within the chest—and,

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for the most part, the urine is of a pale colour—in some cases they expectorate tolerably freely; but even then the difficulty of breathing abates not, but they still wheeze and feel themselves oppressed; and, when that is the case, we must be very careful not to prognosticate too savourably; for the satal cause

still exists, and most commonly terminates in death-

CAUSES. An accumulation of ferum in the cellular fubflance of the lungs—hence arises great oppression on the air vessels, and some slight obstruction on the pulmonary and bronchial arteries, thereby hindering a full and free circulation of the blood through the substance of the lungs—to which old people, those who are phlegmatic, weak, relaxed, and fat, are most subject—and these it attacks most frequently in moist, soggy, and rainy seasons.

CURE. The indications are, to dislodge the contaminated ferum, and throw it out of the constitution, by making it sufficiently thin, so that it may be absorbed from the cells where it is lodged—and this we must attempt by emetics and stimulants; for on these we can alone dependsor saving the life of the patient.

The antimonial emetics are the most proper, (No. 11, 12.) given in fuch a manner that the shock and agitation may be most powerful-hence administered on the stomach being empty, or nearly fo-the arms, back, fides, and leps thould be fomented, and blifters applied to them-mustard whey, (No. 127.) decoction of feneka root, (179.) have been thought useful-when the cough has been violent, gentle opiates, joined with aloetics, have been admitted-volatile faline mixture, (No. 126) coupled with nauseating doses of antimonials, in order to promote expectoration, have been advised, and may, perhaps, be useful to remove obstructions formed in the small branches of the blood-vessels of the lungs, occasioned by the external pressure of serum collected in the cellular fubiliance; but they touch not the grand cause; for though these, or the application of some of the attenuating medicines, fuch as camphor, vinegar of fquills, gum ammoniac, may cause expectoration; in spite of all our endeavours, we very often, indeed, most commonly, see death ushered in, by a perpetual laborious wheezing-great reftlefiness and anxiety, intolerable oppression at the pit of the stomach-a constant drowly disposition -- coldness of the hands and feet, and a livid colour of them as well as the face, owing to the blood there stagnating.

In phlegmatic and relaxed habits, issues on the inside of the thigh above the knee may act as a preventive, by hindering a ferous accumulation taking place in the cellular substance of the lungs, by affording a continual drain to the constitution; but in the fit of the disease, though advised by some, can afford no re-

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lief, from the flowness of their action. The body should always be kept open by glysters, whatever mode we pursue; and we may venture to affert, that if emetics, blisters, and the use of volatiles, will not afford relief, medicine cannot be of much service.

We must be very careful in distinguishing this from the true peripheumony, which may be readily done by remembering, notwithstanding there may be some similar appearances, that in the spurious peripheumony there is no acute sever—add also from the dry ASTHMA, because that is never attended with any sever; in this a slight sever manifestly shews itself, though far more obscure than in the inslammatory peripheumony.

We should have observed, that in all diseases where a cough appears to be a prevailing symptom, mucilaginous and oily compositions are freely exhibited—here though they must be avoided, as must also opiates, except under circumstances which we

have before specified.

S E C T I O N XIX,

WE now come to speak of those diseases wherein the humours of the machine are particularly concerned, owing to some error in point of quantity, or quality, or both, wherein they deviate from their natural state, and from thence produce a variety of diseases—the first of which we shall specify is

§ I. JAUNDICE;

from the French word jaune, yellow—it is also called ICTERUS, from the Greek ikteros, aurugo vel aurigo, which name it bears, from the appearance of yellowness like gold—MORBUS REGIUS—MORBUS ARQUATUS—SUFFUSIO BILIS, from bile being suffused over the habit—this, therefore, is considered as a disease produced by the bile either obstructing the common duct of the gall bladder, called ductus communis choledochus, (36.) by its viscidity, or concreting into a hard substance, named gall-stones—though it may be produced by other diseases, as we shall see in the enumeration of its remote causes.

But we here mean only to speak of it as originating from the causes above specified, the rest being properly considered only as symptomatic, and must have applications accordingly.

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DESCRIPTION. At the commencement the patients generally appear languid and indolent, with an uneafy fenfation of tightness and oppressive weight at the pit of the stomach-after this there comes on a flight yellowness at the angles of the eyes, which disperses itself over the white, the skin at the same time putting on a fimilar appearance—there is very often a pain of the flomach-the body becomes coffive-the appetite fails-the excrements appear of a clay or ash colour-and the urine yellow, tinging any white linen immerfed in it of the fame colour, and depositing a copious yellow coloured sediment there is generally a weight, fullness, and stretching of the right fide under the spurious ribs-there is also a general naufea and loathing of food, fometimes attended with vomiting --the skin often itches --- the pulse is sometimes quick --- sometimes there is a hiccough--- and, should a looseness come on, with yellow coloured fæces, the difease terminates .- These are the common fymptoms, and this the common course of the curable jaundice, which will go off in a few days, if it has originated only from a constriction of the duodenum, or the common gall duct-nor will it continue much longer if viscid bile has only been the obstructing cause-but if biliary concretions have been the fource, in a few weeks, or months, most probably the fame fymptoms will make their appearance in the fame fuccession; and, at length, the difease will, from a repetition become perpetual-fometimes better and worse, though less severe than at firit.

Under these circumstances, the yellow colour becomes deeper in a great degree, forming what is called the black jaundice in much does the bile diffuse itself through every part of the habit, that it has been afferted, objects appear to such patients of a yellow colour; and even the faliva acquires a bitter tastenhowever, in these cases, the blood seems to be so surcharged with bile, that its texture is broken down—frequent hæmoring also through the sides of the nose; and the blood transuding also through the sides of the vessels is deposited in the cellular connecting membrane, occasioning a general livid cast—the sluids then running into a thin acrimonious state, occasions great itching—the body becomes dropsical—the belly fills with water; and thus is the miserable scene closed.

CAUSES. The remote or inducing are, bilious or hysteric colic---strongly operating purges---ossification, or compression of the biliary ducts, from tumours externally or internally situated---pregnancy---violent anger, or long continued grief---obstruction, scirrhus, or abscess of the liver---that black coloured wiscid sluid in the intestines of new born or young infants, call-

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ed meconium, being not properly purged off---intermittent fevers taken off too foon by the use of the bark-gall-stones or

calculi, or vifeid bile, obstructing the gall duct.

The proximate or immediate, an absorption of bile, which has been separated, into the habit—some are of opinion, that bile must be secreted and thrown back into the fluids before a jaundice can cake place—whilst others hold, that an increased quantity of bile not secreted into the gall bladder, by its viscidity or acrimony may also be the cause—however, it is not our business here to attempt to settle these doubts—our opinion will be known by the following

CHARACTERISTIC SIGNS. A partial or total obstruction of the ductus communis choledochus, (36.) most commonly from viscid or concreted bile, attended with a yellow colour of the white of the eyes and skin---bigh coloured urine, tinging

linen dipt into it of a yellow colour-

CURE. The indications of cure are, to remove the obstructions; which, as it originates from different causes, will require

different modes of treatment.

If it should arise from viscid bile, which we take to be the most common cause, in full habits, bleeding may first be had recourse to, and afterwards dandelion draughts may be given, (No. 140.) every night and morning, for two or three fucceffive days; then the faponacious pills, (No. 150.) four, two or three times a day, with four spoonfuls of the faline mixture. (No. 1.) or infusion of quassia, (175.) or dandelion tea, --- after these have been continued for fix or seven days, if no figns of amendment appear, if the yellow colour of the fkin and eyes begins not to grow thinner, the urine to be of a lighter tinge, and there should be no yellowness in the stools, an emetic, (No. 11, 12.) then will be proper, which may be often repeated, if necessary; and the day after the calomel bolus and purging draught, (No. 105, 106.) .-- fome indeed advise small doses of calomel, (No. 109.) to be mixed with the saponaceous pills, and purged off occasionally --- in addition to what is here advifed, fomentations, (No. 85.) may be applied frequently to the right fide, or bags of hot falt, oats, or a bladder half filled with boiled bran and water, pretty warm; and, by proceeding in this way, there is little doubt but the viscid bile will be removed, and the cause of the disease conquered.

But should there be any acute pain attendant in the region of the liver, with a quickness of the pulse, and other symptoms indicative of any inflammatory affections, we must proceed as directed in inflammation of that organ, (340.) before we have recourse to any emetic, which may safely be administered

after the inflammatory or painful fymptoms are fubdued,

Towards

Towards the conclusion of the disease, and to prevent a relapse, the aromatic bitter bolus, (No. 64.) or the deobstruent soap pills, (No. 117.) may be continued for some time twice a day, washed down with chamomile tea, or insusion of quassia,

(175.)

Bath and Harrowgate waters have been by some considered as specific---they may certainly be very useful in jaundice proceeding from viscid bile, or bilious infarction of the liver, towards the conclusion of the complaint, and calculated perfectly to clear the liver from these causes; but in other cases would, from their heating and stimulating powers, be highly improper-

When it proceeds from gall-stones, or scirrhosity of the liver, we must act as in cases of pain in that organ from these

causes. (361.)

When from a redundancy of bile, and bilious colic, what has been recommended in those complaints, (356, &c. will be

proper.)

In order, however, to prevent a return, and invigorate that part of the system particularly affected, the diet of our patients should be light and easy of digestion, avoiding all fatty or viscid substances, or things too powerfully astringent: the body should be kept regularly open, by the occasional exhibition of the aperient pills, (No. 108, 109)---riding exercise should be persevered in, and the place of residence should be such as as-

forded a pure, light, clear air.

HOFFMAN, in curing this disease arising from obstruction, used to begin with bleeding; afterwards prescribed half an ounce of antimonial wine in one or two ounces of oil of almonds, and ordered the patient to drink freely of the decoction of the roots of strawberries, marsh-mallows, liquorice, or a handful of endive, succory, chickweed, chervil, beet, and sour forrel---to each of which decoctions he added two drams of cream of tartar and sisteen grains of nitre---in the evening an opening glyster was given, and afterwards, a purge of Epsom salt and syrup of roses, of each an ounce, dissolved in two or three ounces of water, or made with senna and tamarinds---if these formed not a cure, to the acidulated chalybeate springs he had recourse-

Thirty grains of the aloetic pill, with myrrh occasionally, is

a beneficial medicine-

§ 2. DROPSY-HYDROPS;

from the Greek word, udor aqua, water; because this arises from

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from a collection of lymph, or ferous fluid within the cellular membrane, or different cavities of the body.

When it is general, it is called ANASARCA, from ana, per, through, and farx, caro, flesh—when local, it receives its name

from the part it affects, or the appearance it occasions.

If in the breaft, it is called HYDROTHORAX, from udor, and thorax, pectus, and cheft—if in the belly, ASCITES, from askers, nter, a leathern bottle, from its appearance—if in the womb, HYDROMETRON, from udor, and metron, matrix, the womb—if in the head, HYDROCEPHALUS, from udor, and kephalos, caput the head—and other species, as DROPSY OF THE LUNGS—OVARIA—FALLOPIAN TUBES—but as they all originate from one and the same proximate cause, when curable, they require similar internal modes for the accomplishment.—We shall therefore describe the symptoms by which they may be discovered, before we proceed to the method to be adopted for their cure, making some observations where the general rules may be deviated from, with respect to the situation of the watery collection—and, FIRST, of

GENERAL DROPSY, or ANARSARCA—this is also called LEU-COPHLEGMATIA, from leukos, albus, and phlegmatia, pituita, from the colourless swelling of the skin, arising from the col-

lection of a watery or pituitous humour beneath.

DESCRIPTION. In this difease the body has a pale appearance—the whole skin grows foft, with an inelastic swelling -this originates from watery lymph copiously diffused through. and accumulated in the cellular membrane, (25.) encircling the whole body, its muscles and coats-whence arises a soft tumor. pale and squalid, over the whole of the machine, retaining the indentation, or print of the finger, wherever strongly impressed -the feet and legs fwell, particularly towards the evening, and the tumefaction gradually ascends upwards through the whole cellular membrane-hence it differs from that kind of pafty fwelling which only affects the lower extremities in the evening and subfide in the morning; for in the anasarca, in the morning, fome parts are more fwelled, particularly the eyelids and cheeks, also the scrotum, (53.) and penis, (53.)-a difficulty of breathing comes on, and cough—the patients lofe their appetite, but are very defirous of liquids-the urine at first is pale and watery, though in the latter stages high coloured, though almost always fmall in quantity-the pulse is small, quick, and irregular-there is a flight fever-fleep affords little refreshment-and they feldom or never fweat.

AscITES is a confiderable swelling of the belly, with a perceptible fluctuation within; for if the hand be laid on one fide. and the other Aruck, this fluctuation is readily discovered. In the common species of this complaint, before the belly appears to swell, the patients make water in very small quantity, which is foul, and deposits a yellowish sediment, or one coloured like brick-dust—the legs generally swell, then the belly—after which a difficulty of breathing comes on, especially upon lying down—the patients complain of weight or heaviness—the fielh wastes away—and the bowels are commonly costive—general debilty takes place—the pulse becomes weak and frequent—there is a flow sever attends—by continuance the water becomes putrid, and brings on inflammation, ulceration, and mertification of the viscera; for, on opening bodies who die of this complaint, some of them are sound diseased, most frequently the liver, next to that the spleen, sweathread, and mesenteric glands.

Though we should observe, that in some cases of ascites, the fluctuation is not always perceptible, owing either to the great viscidity of the contained fluid, or to its being confined in a number of cysls, or mixed with what are termed hydatids, or

fmall veficles full of fluid.

Sometimes the afcites is accompanied with an analarca, (178.)
—in which case a cure is scarce to be expected, and, indeed, unless the ascites is recent, and the abdominal viscera in a tolerable sound state, our hopes cannot be more savourable; because,
when the viscera are diseased, or strongly obstructed, these

form infurmountable obstacles to a pleasing termination.

Some authors who have been much em-HYDROTHORAX. ployed in opening of dead bodies, affert, that this difease is much more common than is imagined—it is attended with a difficulty of breathing, and fometimes of the acute kind-a weight in the cheft, pallid countenance, pafty swellings of the hands and feet, a fluctuation upon motion-a fudden fense of fuffocation during fleep, and flupor of either arm—the patients are affected with a dry cough-nor can they lie down upon the fide affected, nor in a supine posture, if both cavities of the chest are loaded. This complaint is of long continuance, and does not intermit. There is often very great difficulty in discovering this disease-however, if there is a constant difficulty of breathing, with a paleness of the face, pasty fwellings of the feet-should the urine be made in fmall quantity-with difficulty in lying down, a fudden and spontaneous starting out of sleep, with palpitation-and water fluctuating in the cheft, the undulation of which can be heard on shaking the patient by the shoulders, or striking upon the ribs-there can then little doubt remain of the nature of the affection.

Sometimes there will arise a dropfy of the membrane fur-

rounding the heart, called a DROPSY OF THE PERICARDIUM, (30.) in which urine is made in finall quantity, and of a very red colour—there is a difficulty of breathing, but not fo fevere as in the former cafe--and the patients lie down with more cafe on the right than left fide--they generally complain of thirst, and have a dry cough--and feel a sense of weight, oppression, straitness, and pain about the region of the heart after fatigue or conversation; they frequently faint, and are affected with palpitations, the pulse is weak, easily quickens, and sometimes intermits---they often perceive an undulating motion about the third, fourth, or fifth rib---have pasty swellings of the hands and feet, and die suddenly.

The HYDROMETRON---the water is either contained in the uterus, Fallopian tubes, or ovaria, (50, 51, 52.) there are no modes of properly distingushing the two latter; but a conjecture may be formed, if any tumor appears in the place where they are situated, and this should be accompanied with other dropsical appearances. With respect to a dropsy of the womb, it discovers itself by a suppression of the menses---a swelling of the belly---slabbines of the breasts, attended with unwillingness or inability to move, pain, shiverings, and febrile affections.

CAUSES. The remote or inducing are, suppression of any accustomary evacuations, as menses, lochia, or piles -- too free an use of fermented liquids, spirits, wine, or malt liquor -- crude and viscid food, cold water drank too copiously whilst the body is more than naturally heated-the exhibition of very powerful purgatives, immoderate bleedings, and falivations ; -and, indeed, they are often the consequences of other diseases, as hæmorrhages -repelled gout, dyfenteries, confumptions, jaundice, continued, remittent, or intermittent fevers-pregnancy, scirrhous tumors of the abdominal vifcera, but particularly of the liver, or polypous; or stoney concretions about the heart-or, in fine, whatever will occasion too free a secretion of the serous fluids into the cellular membrane, or any cavity of the human machine, and prevent the proper action of the absorbent system, either solely, or in a degree inadequate to take up the fluids separated into the cavities by the exhalent arteries --- which last may be confidered as the proximate or immediate cause of all dropsies.

CURE. The indications are, to evacuate the water from the different places where it may be affected; and afterwards invigorate the system, so that the absorbent vessels shall be enabled to perform their functions properly. With regard to the first point, if the patients are not too far exhausted, and have strength to bear the operation, and the case is recent, brisk purging is ne-

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cessary, with some of those medicines which are known to evacuate in the greatest proportion the serous sluids, particularly jalap, joined with nitte, (No. 151.) gamboge, with cream of tartar, (No. 152.) in robust habits—in constitutions more delicate, the saline mixture, (No. 1.) with two or three drams of tincture of jalap, is sufficient to answer the purpose.

Or, ten grains of calomel may be given, at proper intervals, to prevent a falivation, affilted with fix or feven onnces of a flrong decoction of garlic—and this last given three or four

times a day.

On the intermediate days of exhibiting purgatives, diuretics and flight tonics may be administered—a spoonful of mustard-seed, with a decoction of broom, (176) powder of squills, (176) wild vine in powder or decoction, (176.) quastia wood, (175.) with gentle preparations of iron, (139.) or half an ounce of kali insused in a quart of Rhenish wine, two or three glasses of which may be taken in the day, and in the evening a slight opiate, (No. 5.) the dinretic salt, (176.) may be given in any convenient vehicle-or the powder or insusion of fox-glove, (176.) joined with some of the absorbent powders, twice a day, increasing the dose as much as the stomach will bear with ease; for this medicine, though in high estimation as a diuretic, is apt to create, if too rashly administered, an extreme and uncommon sickness—the oxymel of meadow saffron, (176.) one or two drams three or four times a day, or half an ounce once or twice a day.

Cream of tartar, from half an ounce to fix drams, dissolved in ten ounces or a pint of water, taken early in the morning, has been successful in various cases both of the analarca and as-

cites.

But, should neither cathartics nor diuretics prove successful, the sweating chair has been recommended, as by this means great part of the stagnant lymph may be evacuated through the

pores of the fkin.

Indeed, some advise for this purpose from one to two scruples of the compound powder of ipecacuanha, sormerly called Dover's powder, to be taken at bed-time, and laying the patient in stannel, and this repeated every other night—the sweating, if procured, should be kept up for some time, and the patient supported with gentle cordials, (No. 28, 29.) or camphorated mixture, (150.) when the sweating abates, the patient should gradually cool, and the surface of the body be rubbed with hot stannel.

In many cases recourse may be had to scarifications with the lancet, or those used in suppling in the lower part of the legs; but care should be taken not to make the wounds either too

long or too deep, for fear of bringing on a mortification; which must be prevented by spirituous somentations and proper digestives—from this operation considerable quantities of water have been evacuated.

If there are no visceral obstructions, small doses of bark may be continued through the whole course of the disease with considerable advantage, as they will contribute to strengthen the system, consequently promote the action of the lymphatics.

The juice of leeks, a table spoonful taken twice a day, has been known to perform a cure—and when there is any sever-ish disposition, the neutral salts of the diuretic class are preferable to the kali prepared—the diuretic electuary and draught, (No. 153, 154.) and the deobstruent pills, (No. 155.) have been, in dropsical cases, in high estimation—the pills in cold phlegmatic habits have been said to be essications; but where there has been a tendency to inslammation, suppuration, or mortification,

they are prohibited.

Different have been the opinions relative to the abstinence from, or free indulgence in, the use of liquids-instances of cures have been produced where both one and the other have been efficacious --- one would naturally conclude that the former was the most rational plan, calculated to prevent too great an accumulation of aqueous fluid -- but, in desperate cases, I should not refuse the indulgence, particularly where there was an extreme longing; for the mind being gratified, often produces aftonishing good effects on the conflitution; for which we are not always able to account. I knew a woman cured by drinking a large quantity of forge-water one evening, where every other remedy had been tried for a long time in vain; and many other inflances are to be found in the works of medical writers. In cases of abstinence, the thirst sometimes will be so distressing, as almost to conquer the most determined resolution --- in order, therefore, to alleviate this unpleafant fymptom, the mouth may be kept moift, and intenseness of thirst affuaged by a mixture of lemon juice and oil -- hard biscuit soaked in Rhenish wine -- nitre lozenges, tamarinds, or holding a leaden bullet in the mouth, which folicits flow of faliva, and keeps off thirst.

The remedies advised for the anasarca may also be had recourse to in the ascites--in addition to which, the abdomen should be rubbed freely, and for some time together, two or three times a day, with the camphorated liniment, (No. 132.) increasing the quantity of camphor, if necessary---for this has very often proved an useful auxiliary. Indeed, some practitioners have attributed the cure to frictions with oil alone.

However, when all our methods fail for evacuating the water, we must have recourse to tapping--which operation is often deferred too long, till the absorbent vessels, by foaking in the watery fluid become fo relaxed, that they never can recover their tone and action -- and the vifcera, from the fame cause, will be for fpoiled, that the relief procured can never be permanent -- hence, where the disease continues obstinate, notwithstanding the use of internal and other remedies, a fluctuation of wa er is perceptible, and the abdomen sufficiently diffended to prevent the dange of wounding the viscera by the trochar used in the operation, we should not hefitate in performing it, taking care to increase the preflure on the abdomen, either by the hands, or a broad belt, during the evacuation of the watery fluid, in proportion as the abdominal cavity is emptied; otherwise the blood will rush in fuch fuperabundance into the weakened veffels, that the heart, for want of a sufficient quantity being carried to it to stimulate its ventricles, would lofe its action, and a fatal fwooning be the confequence --- for the prevention of which, the operation should be performed as advised by HEISTER, SHARP, or MONRO, in the Medical Transactions of Edinburgh.

On the undulating motion being very strong, the watery suid pure, and capable of being evacuated completely, are founded our hopes of success; for where the sluctuation is not very perceptible, we shall have reason to suspect the sluid is viscid, contained in cysts, or full of hydatids, or that it is purulent or bloody,

which are cases more deplorable.

Sometimes though, after the water is evacuated, it will again accumulate---tapping may be again repeated; for numbers have undergone the operation a variety of times, and had by these means their lives prolonged; though their health has been ne-

ver thoroughly re-established.

In the DROPSY OF THE CHEST, the fame internal remedies may be made use of as in anasarca; and, should these be inessigned in a similar aperture within the thorax, as advised in the ascites, under the hands of some skilful surgeon—and when we are so fortunate to procure an evacuation in any of these cases of the watery contents, we must endeavour to prevent its accumulation by such things as will invigorate the system, increase the digestive powers, and add strength and force to the vessels, such as bark united with chalybeates and aromatics, (No. 39 to 41, 61 to 65.)—daily friction with a sless brush—and moderate exercise—and in an anasarca, if we can be assured that no mischief lurks in the viscera, cold bathing may be conducive to answer those

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those purposes-rhubarb also insused in wine may be occasion-

ally given.

With regard to diet, plain meats are allowable, preferring those which are roasted to boiled—all crude, watery, statulent vegetables should be avoided, and those of the stimulant diuretic class (175.) only be permitted—Rhenish wine, with Seltzer water, is the best beverage—or geneva mixed with some chalybeate, or common water, if the other cannot be obtained.

As the DROPSY OF THE HEAD has often been missaken for other diseases, particularly worms, or cutting of the teeth, on this subject we think it necessary to be particular. This complaint is divided into two species, EXTERNAL and INTERNAL—the former is of little moment, if not united with the latter; for in that water is perceptibly collected under the integument of the scalp and is cured by discutient fomentations, (No. 85.)—blisters, scarifications, and setons—having at the same time recourse to cathartics and diuretics.

But the INTERNAL DROPSY OF THE HAAD is not fo readily diffinguishable, as it comes on with symptoms fo fimilar to those attendant on worms, cutting the teeth, and other iritating causes---and, when water is accumulated, very rarely; indeed

with me, it is a doubt, whether it ever has been cured.

DESCRIPTION. The fymptoms of this complaint vary in different subjects --- fometimes they come on rapidly --- fometimes confiderably more flowly --- owing, perhaps, to the parts of the brain affected, or to the different degrees of diffentibility of the cranium; for if the water accumulates between the dura and pia mater, (26, 27.) the pia mater and brain, (27.) and the skull should be fost, and capable of being much distended, the progress of the disease will be more gradual, than if the accumulation happens in the ventricles, which is for the most part, the case, and the skull should be firm, and not capable of giving way at all-in general, however, it purfues the following course: -at first, there is a pain at the nape of the neck, or shoulders, or fometimes the lower limbs-the arms, though not often, are fimilarly affected-or, should these parts feel no uneafiness, the head and stomach become the feat-fickness comes on, and a variety of other symptoms, fimilar to those which happen in worm cases --- yet, in a few days, others of a more alarming and dangerous nature fliew themselves, such as violent, deepfeated pain in the head, extending from temple to temple, and across the forehead --- fickness is now and then very confiderable --- fometimes the patient doses, frequently fighs, and breathes irregularly --- the pulse also becomes irregular and flow --- at the beginning

beginning, and a little before death, there are some sebrile asfections, especially towards evening—at length, every symptom
which is a concomitant with irritation of the brain attends by
turns—the pulse quickens—the breathing becomes very labosious and difficult—the heat excessive—the patient is averse to
light—takes things greedily—and cannot bear to lie in any
posture except horizontal—the excrements pass away involuntarily—the hands are commonly elevated about the head—the
eyelids become paralytic—and the iris, or center of the eye,
dilated, and immoveable—the patients are apt to squint, and
scream out often upon raising the head, and the cheeks now
and then slush, the pulse soon flutters, the strength sails very
quickly, if convulsions do not suddenly put an end to the dif-

cafe, and fatally close the fcene.

CAUSES and MODES OF CURE. Besides those causes which have been enumerated in dropfy, many of which may give rife to this, there has been reason to suppose others may also be greatly instrumental in producing this, such as falls, blows, or severe bruises upon the head, excessive exercise in hot weather, with exposure to the powerful heat of the fun, violent vomiting, the hooping-cough, flanding long and repeatedly upon the head, or hanging by the middle over rails with the head downwards, common tricks by which children divert themselves .-- or, indeed, any other cause which, in full habits and active constitutions, dispose the blood too much to the head --- and these particularly where no dropsical tendency has previously made its appearance; for I am fully persuaded, that in very many of these cases, if not in all, congestion and slight inflammation are the præcurfors to the aqueous accumulation. In this conclusion I am not only authorized by the opinions of fome late judicious writers on the subject, but by experience, particularly in three cases, two of which were cured, and one proved fatal. In THE FIRST, I was present, when a lively, active boy, about five years old, came in from play to his mother, complained much of his head, and that, though he was not fleepy, he could not keep his eyes open; on laying him down, he begged to be turned from the light, he could not bear it; and foon after he began to be fick, and vomited constantly, when any thing was given to him .-- on examining him, he appeared heated, and his pulle quick, and frequent; but not much more fo that what one might naturally expect, from the exercife from which he had just retired, the pupils of his eyes were contracted, and when a candle was held to him, it was with difficulty that he could for a moment keep his eye-lids open--that there was a load and oppression on the brain, I could not doubt ---

doubt .-- a glyster was given him immediately, his legs were put into warm water, and eight leeches applied to his temples; for his mother would by no means permit the use of the lancet, nor cupping, and that night, four grains of calomel, with the same quantity of jalap and cream of tartar, were given him; before ten in the morning he had five or fix flools, his vomiting ceased foon after the application of the leeches, he could bear the light better, nor was the pupils of the eyes in any thing like fo contracted a state, still his head was not perfectly eafy, nor was he free from that drowly appearance, he was bled a fecond time, and his purge repeated at night, which produced every wished-for effect, after which he lived for some time very abstemiously, and now and then had recourse to purgatives, and by thele means he was perfectly reinstated in his health.

The SECOND was nearly fimilar, though the fymptoms, not any of them, appeared with fo great a degree of violence, the attack was equally fudden, and the complaint yielded to the same mode of treatment. In this case I was fent for when the child had been ill only a few hours; and I purfued the idea merely of unloading the head. I had no fuspicion of water in

any part of the brain.

IN THE THIRD CASE, the child had been ill for some days, and, from the account given me by the mother, a very fenfible and intelligent woman, confirmed by the furgeon, added to the fymptoms at that time apparent, I did not helitate to conclude, that there was an accumulation of water in the brain; for the patient laboured under a coma, the pupils of the eyes were dilated, a general flupor was prevalent, with obstinate costiveness, the pulse was irregular, the face fometimes slushed, fometimes was pale, the stools when procured by glysters and doses of calomel, were feetid, and full of jelly-like gluey mucus, and very ittle urine paffed, and that often involuntary, from the applicaion of a blifter to the head, and rubbing in from half a dram to a dram of mercurial ointment, with two or three grains of calomel given every night, all the fymptoms appeared to be nuch alleviated .-- indeed, fo much, that the parents flattered hemselves with the hopes of a recovery---but they were unortunately deceived; for, on the evening of the day when thele avourable appearances prefented themselves, convuisions sudenly came on, and the patient in a few hours expired. On pening the head, the brain appeared to be full and tight, the effels of the dura mater diffended with blood; and, in cutting way the superior part of the brain down to the ventricles, inumerable red spots appeared through the substance, which vere small branches of arteries diffended with blood --- and in

the ventricles was a great quantity of water, supposed not to be less than eight ounces---the inner surfaces of those cavities shewed evident signs of inflammation, particularly on the bed of the optic nerves, called by anatomists, thalamus nervorum opticorum.

From the fimilarity of these cases, and result of the last, I conclude, that if the two former had been neglected, the con-

fequences would had been the fame.

In the beginning, therefore, of complaints of this kind, bleeding and purgatives should be depended upon; and I am persuaded, if advised in proper time, many unfortunate objects may be snatched from the jaws of death. In the latter stages, I fear we can never promise success, raising a falivation by the use of mercury, or throwing it into the habit in a sufficient quantity, to solicit the re-absorption of the serous sluids from the ventricles of the brain, or places where it may be accumulated, blistering the head, vapour baths, and the use of the fox-glove, (176.) as one of our most certain diuretics, given in small doses, bid the fairest for relief; if any under these deplorable circumstances are to be had, though I am greatly doubtful with respect to a radical cure—however, as the most rational means, they ought to be pursued.

6 3. TYMPANY-TYMPANITES.

called fo from tympanum, a drum, either from fimilarity of found or distension—this is a light and elastic swelling of the belly, making a sounding noise on being struck, which is the characteristic symptom of this disease—to which may be added eructations, rolling of wind in the bowels, costiveness, and pain, relief being afforded by the emission of wind upwards or downwards, and a wasting of the other parts.

It is divided into two species, one named INTESTINAL, when it arises from flatulencies in the intestinal canal---the other AB. DOMINAL, when it arises from air pent up in the cavity of the abdomen, between the intestines and the membrane lining the

muscles of the belly, called peritoneum, (34.)

THE FIRST we must attempt to cure by the administration of such slimulants as expel wind, and are antispasmodic, such as carraway seeds, anniseeds, &c. (145.) asasetida, spirit o vitriolic æther, (149, 150, 151.) with opiates, (152.) keeping the body open every now and then, with gentle warming alocatic medicines, (No. 108.) and using frictions to the abdomeronce or twice a day--by these means we may discharge the slatulencies--- and we should also attempt to strengthen the coat

of the intestines, that a relapse may be prevented, by aromatic corroborants and stomachies, such as zedoary, (146.) quastia wood, (275.) orange-peel, and some of the warmer bitters—swathing the body with a broad belt, and using riding exercise—glysters also may be occasionally given of infusions of chamomile, wormwood, or gentian, in which may be dissolved from half a dram to a dram of asasectida.

THE SECOND requires tapping, if curable at all--but as this often arises from the corruption of water or other sluids confined in the cavity, or from ulcerations or mortifications of the different viscera, little can be expected from this operation.

§ 4. ATROPHY;

This complaint is very often symptomatic, depending upon some other disease in the habit, which disease, if it comes within the reach of the medical art, by curing, the atrophy, an effect produced from that cause, will also be conquered;—but our hopes can be but small when the wasting of the slesh is unaccompanied with any heetic sever, and comes on without our being able to discover any manifest cause—which is the case in the true ATROPHY, or NERVOUS CONSUMPTION; for this is a perceptible wasting away of the whole body, without any remarkable degree of sever, cough, or difficulty of breathing, attended with loss of appetite, and too weak digestive powers—hence arise languor and daily increase of emaciation.

DESCRIPTION. In the beginning the habit has a puffy or pasty appearance, the countenance is pale and squalid, the appetite loaths every kind of food, and is gratified only by liquids, the patients are constantly languid, and keep very much in bed---the urine is often small in quantity, and high-coloured; sometimes pale, and copious---there is neither sever nor difficulty of breathing, but what arises from great weakness—hence the blood, from want of its wholesome supplies, becomes acrimonious in length of time—from whence comes on heat—a hectic sever, which increases—and is at last attended with

cough and a difficulty of breathing.

CAUSES. The remote or inducing are, debility in the digestive organs—a poor and unwholesome diet—a delicacy, and incitability of the nervous system—a defect or excoriation of the mucus which should defend the inner surfaces of the heart and arteries, excess of passion, or severe mental affections—very free drinking of spirituous liquors—unhealthy air—too con-

ftant

flant, and too luxurious pursuits—too copious evacuations—old age, &c.—and, in fine, whatever will produce a want of sufficient quantity of properly elaborated juices---or a deficiency in the power of applying them, which are the proximate and immediate causes.

In children, this disease very frequently happens, which is owing to another cause, as well as some of those above specified, which is too soon taking them from the breast, and seeding them on solid sood—in this case the legs hang closely down—they result to stand upon their feet—their skin grows shrivelled—the whole body, particularly the nose and nates, become slaccid—and, in many instances, their appetite is insatiable.

CHARACTERISTIC SIGNS. A wasting away and loss

of firength, without any hectic fever.

CURE. The indications are, to restore the tone of the folids, improve the state of the digestive organs, and increase the appetite, by the use of stomachics, as quassia wood, chamomile, orange and lemon, with chalybeates, (No. 60. without the vinegar and muriatic acid, No. 61 to 65. 71. 137.)—every third or sourth morning the patient should be purged with rhubarb, (1"3)—medicated wine, or beer, should be taken twice a day, (No. 156.) and the stimulating tonic electuary, (No. 157.) may be administered, balsam of copaiva, (165.) Canada balsam, (175) the liquor of hartshorn, or ammonia prepared, mixed with a little sugar—malt liquor, especially London porter, may be drank, as it has proved useful and nutritious to those who have not been accustomed to it—the lightest kind of nourishment should be had recourse to, with ass' milk, beef te2, &c. (133, 134.)

As this disease happens to almost all old men, it is commonly attributed to a want of sluids; and, though it may not be attended with, it follows a fever—here choice, nutritious food, full of juices, is requisite, (113.) also the use of generous wine, and constant warmth in winter, and sleeping with young healthful subjects has been considered as particularly beneficial.

§ 5. Scurvy—Scorbutus.

There are vast variety of eruptive complaints which go under this denomination; for when spots of different kinds, of whatever nature they may be, and however various their appearance, shew themselves upon the skin, for numbers of which we have no specific term, they are all called scorbatic.

However, we mean to confine ourselves to the PUTRID, or SEA SCURVY—which discase is considered to axise from a sperish or peculiar humour, generated in the constitution, and, though

though fometimes epidemic, is neither contagious nor infectious. DESCRIPTION. This may properly be divided into three

stages, marked out by the different degrees of violence of the

fymptoms.

IN THE FIRST, the patients complain of weakness, and are much fatigued on using any exercise-they have a difficulty in breathing, are very often fick, and have a difrelish for, or dillike to animal food-the gums are hot, painful, itch, and on them. as well as the tongue, there appear ulcerations-the teeth be-- come loofe, decay, from the gums being in a great measure defroyed, and leaving the parts, which in the natural flate they cover, too much exposed to the air-the breath becomes extremely offenfive-the urine is high coloured, fmells ftrong and difagrecable, and has floating on its furface on oily film, or fkin-like appearance—the pulse, for the most part, is weak, feldom hard, and always grows quicker upon motion -- different coloured fpots appear on various parts of the body, except the face, reddish, sometimes of a blueish cast, livid, or black-the gums become foft and fpongy; and from them, as well as from other parts of the body, there are effusions of blood.

In the second, pains attack the legs, which also swell, as do the knees, which impede the motion of these parts—besides, pains also affect the belly, breast, vertebræ, and all the muscles of the machine—the sace begins to look ghastly—and so great is the languor, when the patients have restrained a long time from motion, that, on being slightly moved, they are apt to saint; and sometimes, if exposed to the open air, they die; now they have often febrile affections of the erratic, continued, or intermittent kind—palpitations of the heart, and difficulty of swallowing—their understanding and appetite, notwithstanding their great debility, keep up in a tolerable degree—and they have no pain,

except on motion.

IN THE THERD STAGE, the tendons and joints grow sliff, they have frequent fainting sits, great dejection of spirits—and are extremely fearful, from no apparent cause—the cicatrices of old ulcers, if there should be any, again break open—and on the legs, fort, livid, and painful swelling takes place, and spongy ulcers, which bleed—obstructions, scirrhosities, ulcers, and mortification affect the viscera—the urine is small in quantity, sweid, high-coloured—difficulty of breathing, suddenly destructive, sometimes closes the scene, or they expire in some fainting sit-

CAUSES. The remote or inducing are, living in a moift, cold atmosphere, particularly if in marthy fituations—fuppressed or immoderate evacuations—mental affections of the gloomy kind, fortow and fear, preceding diseases—an indolent life, with luxu-

rious indulgences of the appetite—groß viscid food without any, or with too great a scarcity of, fresh vegetables—living upon the coarse salted, smoaked, or dried flesh of quadrupeds or fish—sew of these causes singly are sufficient to bring on this disease; there must be a combination—sailors, from other sources besides these, are subject to the scurvy, because they feed on musty bread, water, fish, and slesh, which are corrupted.

Now these causes, either by suppressing the matter of perspiration, which ought to pass out of the habit, or from their own corrupt nature, induce an alcalescent acrimony in the blood, which particular acrimony is the immediate cause of the scur-

vy.

But we must here observe, that it not only affects people who live in cold, damp situations—have little or no vegetable food, wine, or other cordial drink, and are not sufficiently cloathed—but it sometimes rises in dry soils and pleasant situations, and attacks people who live in assume and hence becomes epidemical, as was the case in the spring of the year 1760, in Hamp-shire; for there it extended its influence in a most amazing manner amongst all classes of people.

From the confideration of these causes, it appears probable, and is generally allowed, that the scurvy arises in the body spontaneously, in consequence of some unknown changes in the atmosphere, which are more capable of generating scorbutic acrimony, in proportion as there is a defect of sound vegetable dis-

et, termented liquors, and clean or fufficient cloathing.

But though the combination teems necessary to produce this disease in the soundest and strongest constitutions, still, in such habits as are weak, and naturally relaxed, dull, and slothful, or which have been debilitated by any preceding malady, notwith-standing they live possessed of generous and proper diet, with warm cloathing, experience convinces us, that from changes of the atmosphere alone, in them this complaint will make its appearance.

of the gums, and different coloured spots in the skin, for the most part livid, particularly at the roots of the hair—occurring in cold climates, most frequently, after feeding on putrid or salted animal food, that of the vegetable class being at the same time de-

fective, particularly tresh vegetables.

CURE. Dreadful as are the symptoms of this complaint, if the texture of the whole system of the solids is not destroyed, they all give way to proper treatment. The indications of cure are, to attempt to promote the free excretion of the putrid humours by the intestines, kidneys, and skin, lest, by a stagna8CURVY; 469

tion of this fcorbutic virus, the corruption may become greater and more acrid.

For which purpose, living upon fresh vegetables, be they of what nature they will, is recommended, particularly those of the cooling acescent or acid kind, such as leteuce, cabbage, endive, lemons, citrons, oranges, gooseberries, forrel—using cyder, perty, and white wine for drink—milk diet, the creams of rice, oats, barley, sago, wheat-bread well baked, and the slesh of young animals, or broths made from them—onions, garlic, leeks, water cresses, horse-radish, mustard, &c-

With regard to medicines, gentle aperients are only allowable—firong cathartics are hurtful, as are also all opiates; for they destroy the strength, and dissolve the blood—all metalline preparations should be prohibited, particularly those of quicksilver,

iron, and antimony.

The most eligible aperients are tamarinds, prunes, cream of tartar, or such as come nearest to the vegetable class—in order to assist perspiration, tar-water, spruce, decostion of the branches of the common red fir or pitch tree—to promote urine, oxymel of squills, taken in small doses, but often repeated in the day, so that within that space of time one ounce may be consumed; for by this the body is kept open, the pains are mitigated, and all the excretions promoted.

Every other day, in the beginning, a fweat should be raised, by taking two or three times in twelve hours twelve grains of the squill pill of the London or Edinburgh Dispensatories, or he camphorated bolus, (No. 158.)—these should be continued for some time, though the disease should be much alleviated, to

prevent a relapse.

Goat's whey would be very beneficial, with fmall doses of Poychrest falt, mixed with two or three ounces of the scorbutic nices, taken two or three times a day; for these prove mildly perient and diuretic.

If there should be no fear of hæmorrhages, warm baths, made with aromatic plants are serviceable in promoting perspiration,

nd diluting the humours.

Bleeding in general is extremely prejudicial in the fecond and third stage of the feurvy—nor should it be used even in the rst.

The mouth may be washed with any of the gargles, (No. 44. 6. 93, 94.)—or decoction of bark, with tincture of myrrh, may e used—to the ulcers, strong decoctions of bark, absorbed by nt, or soft rags, is the most useful application—and, should be limbs be swelled, or the joints stiffened, they may be bath—

ed with warm vinegar, or partial vapour baths may be appli-

With respect to the use of vegetables, we must observe, that if patients have been deprived of them for a long time, they must not be suffered to eat of them at first voraciously, as they are apt to do if left to themselves, lest they should fall into a dysentery—they should begin moderately, and increase the quantity by

degrees.

On regularly observing what has here been laid down, particularly the feeding on fresh vegetables, we shall have no reason to be doubtful of a cure, which usually first shews itself by a gentle looseness—and if in a few days the skin becomes soft and most, it indicates infallibly a quick recovery, especially if the strength returns, and the satient can bear being moved and carried into the fresh air without fainting—but should the body remain in a costive state, notwithstanding the free use of vegetables, and the skin harsh and dry, we must have recourse to the gentle aperient medicines we have before specified, and warm bathing; for nothing contributes more to the recovery of scorbutic patients than gentle sweating.

Different other remedies are recommended, such as the decoction of water dock root, with crystals of tartar, (No. 159.)-communicating fixable air to the stomach, by means of neutralizing prepared kali in that organ, (No. 160.) wort, (No. 161.) where fresh vegetables cannot be supplied, has been considered as more essectious than the inspissated juice of oranges and lemons, mineral acids, or sour crout, or what is generally taken and applied at sea for the cure of the scurvy, of which from two or three or sour pints in a day are to be administered, it the patient can bear it, and the looseness, which it generally occasions,

be not too violent.

However, though the general plan here laid down will feldom fail where there is a probability of fuccess, still, in cases of emergency, where fresh vegetables are not to be had, it may be of some essential service to be informed of those things which may in some degree supply their defects.

6 6. SCROPHULA;

derived from scrosa, a swine, because these animals are subject to it: when it fixes on different parts, it receives different name—if the glands of the jaw, or below the ears it is called STRU MA—if under the tongue, RANULA—if in the lachrymal glands LIPPITUDO—if in the thyroid gland, BRONCHOCELE, or Derby shire throat—if the glands of the arm-pits, breasts, ground lung

lungs, mesentery, or other parts, then it is called, though said to be improper, a scirrhus of those parts. Notwithstanding the chief seat of this disease is in the glands, (24.) it does not only occupy them, for it seizes the adipose membrame, muscles, ten-

dons, joints of the body, and the bones themselves.

Scrophulous patients, it is observed, usually possess a more lively disposition, and a maturity of understanding superior to others in the more early periods of life; and that this sixed disease will continue, without almost any change, until the age of puberty, at which time it recedes, and the patients become more robust, and freer from other disorders.

Authors are not agreed whether it is contagious or not—fome fay, that it may be transmitted from one to another, and that it is capable of being communicated by a nurse—however, fo long as a doubt remains on this head, prudence should per-

fuade us to advise scrophulous patients to lie alone.

DESCRIPTION. Tumors, generally about the bigness of a pea, bean, or chesnut, hard, indolent, moveable, of the same colour with the skin, unless they should be in a state of inflammation, for the most part, seize the fauces and neck-often preceded by irregular pains of the belly; but they are also fixed in the arm-pits and groins-though they increase gradually, and adhere to the neighbouring parts-after they have remained for some time in this state, they at length begin to be painful, attended with heat and redness of the skin---the pain is of the lancinating kind, coming on now and then, from the ferophulous humour becoming acrimonious --- now a lurking fever begins to make its appearance -- and in the part affected there is a hard lumpy feel before an imperfect suppuration takes place, which in fome weeks, or months, breaks, and from thence iffues forth a thinnish white and curdly matter, which diffinguish them from other species of tumor, leaving a foul ulcer, with the lips fwelled and hard, thele are healed with difficulty, and then very flowly, leaving a difagreeable cicatrix --- fometimes the ulcers are of fo virulent a nature, that they occasion a foulness of some of the contagious bones --- when these scrophulous tamours affect the lungs and other viscera, a confumption is the confequence -- and, indeed, perhaps, greatest part of the confumptive cases may to this owe their origin--and fuch children are very obnoxious to many incurable difeafes, dropfy of the belly, diarrhæa, hectic fever, emaciation, dissolving sweats, &c.

The scrophulous humours of long continuance sometimes fixes in the joints, and there creates tumors---whence stiff joints, swelling of the bones, and infinite other incurable maladies---

someyes chiefe control

fo that strumous swellings of the neck may be considered as

the smallest part of the disease.

The joints most commonly affected are those of the fingers, wrifts, knee, elbow, and ancle; fometimes that of the thigh--a strain in any of which will often be the cause of the scrophulous taint fettling there, and shewing itself more suddenly, than if no fuch accident had happened; for then the fwelling comes

on more gradually, and without pain or discolouration.

But fometimes this humour does not shew itself externally, but fixes itself in the internal parts of the habit --- in these cases if there should be thickness of the upper lip, which is generally held as a fymptom peculiar to constitutions, where the scrophulous taint is prevalent, and without any other concomitant fymptom, there will be fufficient room to fuspect a scrophulous actimony --- in these cases, the glands of the mesentery are generally found stuffed and enlarged with a cheefy, purulent, earthy matter -- hence come on emaciation, hectic fever, and death.

Sometimes the same matter will fix itself on the lymphatic glands of the lungs, and produce cough --- difficulty of breathing --- and confumption :--- and, when scrophulous tumours are un-

equal, they are apt to become cancerous.

CAUSES. Those which are remote or inducing, are said to be, living upon coarse, viscid, or acid diet -- or too great quantity of fweets-want of proper exercife-external injuries --- preceding difeafes -- venereal virus --- a moift atmosphere -- exposure to too fevere cold-nurse's milk being too acescent or viscid--or being herfelf in a difeafed flate --- drinking fnow water --diflocation of any joint --- or having the scrophulous taint inherent in the constitution.

The proximate or immediate, a viscid depravity of the ferous or lymphatic humours, obstructing and stuffing up those glands of the machine called conglobate or conglomerate -- the FIRST of which is a little fmooth body, wrapped up in a fine skin, by which it is separated from all other parts, only admitting ar artery and a vein to pass in, and giving way to a vein and excretory duct to pass out --- the LAST confilts of a number wrapped up in one common membrane.

CHARACTERISTIC SIGNS. In general there are tumors of the conglobate, and often of the conglomerate, glands particularly of the neck, the upper lip and fides of the nofe being full and fwelled, the face florid, the fkin fmooth, and the belly swelled .- When it does not make its appearance external

ly, fee the fymptoms. (472.)

CURE. This disease is extremely difficult to conquer, ow ing to the scrophulous humour being of such a nature, as to be capa

capable of lurking long in the habit, without manifelling itself, hence, before people are aware of its existence, it gets a sum footing in the constitution, which renders it so hurtful and unconquerable in its effects.

However, the indications of cure are, to clear the lymphatic fystem, subdue the acrimony of the morbid suid, and strengthen the habit in general—for which purposes many medicines

have been recommended.

Some advise the application of the bemlock plaister, with ammoniacum, (No. 162.) with lime water and burnt sponge, or vegetable alkali, internally—purging the patient now and then with black bellebore and calomel.

Others, millipedes, or wood lice, as' milk, decaction of farfapa.

rilla, with burnt fponge, or kali prepared.

The long continued use of the decoction, or juice of colts-foot, has been considered by some a certain remedy-milk whey, with

the dead nettle, has acquired much praife.

But the chief remedies in which practitioners place any confidence are, bemlock-bark, fixed fossile alkali, fea-air, and fea-bathing—and, perhaps, in the proper applications of these we shall find the greatest probability of success, applied according to the different circumstances of the different.

Before there are any lymptoms of suppuration, or hectic sever, with wasting away of the slesh, the sea-water answers the best; of which from half a pint to a pint is to be drank every morning for some months; and the patients should also bath in the sea—the water gently purges, promotes secretion, warms and strengthens the habit—and, externally applied, discusses the tumors, and prevents the increase of the acrimony of the shuids —but in the inslammatory state of the tumors it is better omitted, until the inslammation abates, or the matter is discharged.

At first sea-water generally occasions thirst; but that soon wears off, or sleeping after it abates this uneasy sensation. It has also been of service where a caries has affected the bones.

Some give it only in such quantity as to keep the bowels moderately open; and, when it creates thirst, mix it with common water.

When there are running ulcers, and a degree of hectic fever, the bark is then preferable; and the best mode of administering it is in tincture made with lime-water, (No. 163.) with which may be administered the powder or extract of hemlock, (152.)

When the disease becomes to be inveterate, and approaches to the scirrhous or cancerous state, hemlock must be given freely, gradually increasing the dose to the utmost quantity the patient can bear; to which small portions of calomel, or corrolive sublimate, may be added, a quarter or half a grain of the former, or one-twentieth, or fomewhat more, of the latter, to each dofe; for these not only promote suppuration, but meliorate the difcharge from the ulcers :- but this mode of termination should be avoided if possible, as the ulcers which succeed are slow in healing-when they, however, form abfceffes, it is necessary to observe, that they should never be opened till all the lumpy induration is diffolved; perhaps in this state it is even better to leave them to themselves; for it is remarked, that they often answer better when they break spontaneously, than when opened by art; and the finuses that are formed afterwards are seldom cured by dilating-hence it is unnecessary, as well as inhuman, to torture the patients by repeated incifions; for these fores never heal up until the acrimony shall be either fubdued, or the constitution acquires sufficient sirmnels.

The common fea wrack rubbed on, or applied in form of cataplasm, sometimes softens, and disperses them—or fresh ox-gall, mixed with foap liniment, is considered to form an efficacious re-

folvent mixture.

However, in the indolent state of these tumors, all irritating or stimulant applications, though of the weaker class, are scarce ever to be used, because they are apt to bring on suppuration.

Fixed fossile alkali, called soda, (191.) with strong decoction of colts-foot, I have known serviceable, continued for some months—and it is adviseable to give mercury united with hemlock, (473.) and bark decoction, (193.) and administer these alternately, changing them every three or sour weeks, when we find the symptoms cease to abate by the application of any of them—that medicine called the terra ponderosa muriata, muriated barytes, given in small doses, of three or sour drops, gradually increased, is a medicine preserable to the soda-though alone I have never experienced the very great esseay which I have been told it possesses—though in some of the serous eruptive cases I have perceived very evident advantages from its use-it seems chiefly to act as a diuretic and gentle aperient.

Large fetons, or iffues, may be fet, as perpetual drains to the

habit; they are ferviceable.

In ferophulous cases of long standing, sulphureous waters, as those of Harrowgate, Mosfat, and Llandridod, have been said to be highly beneficial; but, in order to accomplish a cure, there should be a steady perseverance in general for some years;--- still it is frequently found that all these various methods fail,

and nothing, except the removal into a warm climate, will fo well eradicate the complaint—though we have inflances of people being cured by living a feries of time upon the fea coaft.

With regard to all external applications, those of the aftringent and flimulant class are the best, such as water of acetated litharge, (139.) diluted-fea-water, water with every kind of faline or mineral impregnation—cold water alone hath often produced a good effect; for these promote circulation through the veffels, and give firmness to the parts already in too great a flate of relaxation. These, however, come more under the furgeon's hands; and therefore we refer the reader to the works of Mr. Wifeman, Heister, and Bell, which may be consulted on this fubject with advantage. With respect to diet, it should be of the light, dry, and eafily digeflible kind-all viscid food should be carefully avoided --- fleep should be taken moderately -- and alfo gentle and constant exercise, particularly in a dry, warm air; for moist fituations, and those which are cold, are extremely pernicious --- and also frictions will be beneficial --- in fine, every thing that will keep up a free and regular state of perspiration, and affift in invigorating the fyftem, should be folicitously obferved-

§ 6. CANCER.

This we may fometimes trace from the foregoing difease; for it has been observed, that some of those who, in the early periods of their lives, have thewn appearances of fcrophula, have in the more advanced stages been affected with cancers --- hence it is not improbable but that there may be some affinity between the humours producing these two diseases. It has been called CARSINOMA, from the Greek word karkinos, cancer, a crab, from its appearance, the turgid veins running round the margin of the tumors being fomething fimilar to crabs claws -- and when a hard feirrhous tumor begins to be unequal -- puts on a livid colour-has acute darting pains shooting through it-and at the fame time veins furrounding it being diffended, and having a ferpentine appearance, called varicofe-thefe are fymptoms confidered as declaratory of a cancer --- but, indeed, fometimes it will arife in the lips, gums, tongue, and fome other parts of the body, without the appearance of fcirrhus preceding it-

When this tumor lurks under the fkin, it is called occultabut when it becomes ulcerated, it then is called OPEN, and is distinguished by a very offensive and fætid discharge---the lips of the ulcer inverted--an hardness of the skin, an exudation of a thin, acrimonious Buid-pricking, darting pain, very acute, and

obstinate refishance to every application.

Like forophulous tumors cancerous ones are lumpy, unequal; but exceed these and every other species of tumor in hardness, though, whilst they remain in an indolent state, and without any discolouration in the skin, they are termed scirrent-when an itching is perceptible, succeeded by the darting pain we have before described, the skin turns darkish or livid, and the veins under the skin put on a varicose appearance (475.) in the part affected, they then are considered as CANCERS.

DESCRIPTION. A cancer in the beginning is generally fmall, and increases gradually; and notwithstanding the changes of the colour of the skin already mentioned, and that of becoming painful from being indolent, it is sometimes very difficult to determine, when the transition from one state to the other takes place, because, according to concurring causes, the progress

becomes quick or flow.

It has, with great judgment, been remarked, that when peculiar kinds of burning shooting pains, an alteration of the colour of the shin to that of brownish, purple, or livid, appear, then the difease may be considered as a malignant scirrhus, or consirmed cancer—and also when it is arrived to this state in women's breasts, the magnitude of the tumor greatly increases, and very quickly, having a knotty, unequal surface, a greater number of glands being obstructed, the nipple sinks in-full and turgid veins conspicuous, disfusing themselves some distance round the tumor, and resembling the claws of crabs.

These are deemed characteristic signs of an occult cancer externally situated; but when these pains and heat succeed in parts where the patient has before been sensible of a weight and prefsure, accompanied with a dull pain, we have great reason to be-

lieve it lurks internally.

A cancer may remain in an indolent state for years, without any ulceration, yet the humour may acquire such a degree of acrimony as to erode the integuments, then commences the open cancer, from which will issue a thin sluid of so caustic a nature, that the neighbouring parts will be speedily corroded, whether hard or soft, and thus forms an ulcer so obstinate, that it is incapable of being healed by any applications yet discovered, nor can the acrimony be corrected or subdued by any known alterative—the slesh within the ulcer becomes spongy—the lips of the wound swelled, livid, and inverted—the pain intolerable, the glands of the neighbouring parts become obstructed—sometimes harmorrhages ensue, the appetite is lost—a slow fever, with wasting of the slesh, comes on—the strength fails, the patients are af-slicted

flisted with convultions and fwooning -- and death, more defira-

ble than life, closes the miserable scene.

CAUSES. The remote or inducing are faid to be, suppressed evacuations—great dejection of spirits—frights and anger—a mode of living, medicines, or other diseases generating a corrosive acrimony in the blood—an increased motion in the blood, from whatever cause it may arise, cold, external irritation from friction, compression, erysipelas, or medical substances—barrennels, and a life of celibacy; for women who have lived in that state, as well as arriving at the period of menstrual cessation, are most liable to this complaint—next to those, mothers who have not suckled—afterwards, those who are past child-bearing, and those who are least subject to the disorder, are men, and women who have raised their own children by the breast.

The proximate or immediate is supposed to be, a specific corruption or putrefaction, though slow in its progress, of the hu-

mours obstructing the glands.

CURE. A true cancer, I believe, is feldom or ever cured, except by amputating the part affected...if, therefore, the complaint is in its recent state, small, solitary, and moveable...especially if it comes from an external injury...if it is in a free situation, neither adhering to any large vessels, nerves, ligaments, nor to the bones...the constitution being good, and in young subjects; the part affected may be taken off by the knife; and this mode is preferable to the application of any caustic substances...but, in all these cases, where operations are to be performed, or external applications made use of, the best advice we can give is, for the patients to depend on the judgment of

fome cautious and experienced furgeon.

With regard to medical affiftance in those feirrhous tumors, before they have put on the positive appearance of cancer, experience authorifes us to recommend bleeding, to take off the general fullness of the habit --- afterwards the application of leeches to the part affected, and that repeated, as occasion may require, and now and then exhibiting a cooling purgative-indeed, where we are led to believe there may be a cancerous tendency, from some degree and continuance of pain, topical bleeding is necessary, and the application of poultices made of hemlock leaves, with the internal exhibition of the fame medicine, (152.) in extract of powder, has apparently stopped the progrefs of the complaint. Indeed, in these three cases of feirrhofity of the uterus, by the proper management of hemlock, corrofive fublimate, opium, and fome arfenical preparations, I have known great benefit to be derived --- one of which, the most violent, occurred at Knightsbridge lately, when I attended

tended with Mr. Williams, an attentive and judicious practitioner; the patient was a person of delicate habit, subject to hysterie affections, from strong nervous incitability, and whose muscular fystem was also more than commonly irritable --- the complained of excruciating pain in the lower part of the belly --- her pulse was quick, skin dry, totally restless, and very thirsty, she now and then complained of chillness, which was always focceeded by a heat of the fkin, and a quickness of the pulse, that always increased towards evening, and went off by copious perspiration, the womb was apparently much enlarged, very hard, and pressed low down into the pelvis, she complained of pains darting through the lower part of the belly, and, from the weight and pain was altogether incapable of walking, nor could be moved from her bed without great agony-whatever the took for some time she vomited up, so that she received, for the space of three weeks, little or no nourishment --- she was also often and strongly affected with that unpleasant sense of suffocation, or choaking, from the contraction of the throat, called globus hystericus --- she had also through the vagina a very oftenfive and acrimonious discharge, which, from excoriating the parts, occasioned her much additional uneafinels, however, by the use of hemlock, corrosive sublimate, and a solution of arfenic given internally, after her feverish symptoms were abated, by the use of saline medicines, alleviating her pains by opiates, and keeping the bowels open by mild aperients, she was enabled to leave her bed, was totally freed from all pain, and has continued apparently fo well for fome months, that the enjoys a state of health superior to what she experienced for some time before her indisposition began to be so severe. I should also have observed, that the made use of an injection formed of a decoction of hemlock and poppy heads.

In all cases of cancer, whether occult or ulcerated, the patients should be kept on cooling diet, milk whey, and milk, with the use of warm baths, and, perhaps, whilst the cancer is in the former state, wearing a hare or rabbit skin over the part affected is extremely useful—the pain should be moderated by occasional bleeding, cooling purges, a spare, thin, cooling diet, and gentle opiates; cordials, exercise, and whatever can give too quick motion to the circulating sluids, or increase the heat

of the machine, should be avoided.

The purgatives proper to be used are Glauber's salt, sal polychrest, or some other of the cooling and gentle purgatives, (171, 172.)—and in cases of sebrile affections, saline mixtures, or nitrous medicines, (No. 1, 2.) are adviscable—and for drink, milk and water, or sarsaparilla decoction.

Hem-

Hemlock joined with bark, and small doses of corrosive sublimate, has by some been ranked among the most efficacious of all cancerous medicines—half a grain of the latter of which, dissolved in spirits of wine, and given in cancers of the face and nose, night and morning, has been recommended as very beneficial—in cancers of the breast, an insusion of deadly nightshade has been considered as the most useful.

Of hemlock, the fresh juice is thought more efficacious than the extract, beginning with four or five drops, and gradually

increasing the dose.

With respect to external applications, various are the materials recommended in this point, such as poultices of hemlock, goofe-grass, carrot, solutions of arsenic, lead, acetated ceruss, sixable air, &c. but as it is our province only to treat on complaints medically, we must refer our readers to the works of surgical authors on this part of the subject.

§ 8. CLAP, OR GONORRHOEA VIRULENTA; POX, OR THE LUES VENEREA.

Notwithstanding there are authors who consider these as two distinct diseases, and give it as their opinion, that they arise not from the same contagious matter, I shall beg leave to treat them under one and the same head, perfectly persuaded that they are the same disease, under different constitutional circumstances—the sirst acquired from the matter acting locally, the second from its being absorbed into the habit, and being more general in its effects—for I certainly have known the lues arise from the injudicious treatment of a gonorrhæa—and have seen patients who, having had commerce with the same woman, differently affected—the one labouring under a gonorrhæa only, the other completely poxed—Besides, I have known some men, who, in their intercourse, when unfortunately diseased, have never experienced the former, but were always affected with the latter.

I should therefore consider the gonorrhoea virulenta as the morbid matter acting in its simplest state, and the lues in its more diffused and confirmed state.

And, first, of the GONORRHOEA, improperly so called, as the term imports a slux of semen, from the Greek gone, semen, seed, and reo, sluo, to slow, which is not the case, the discharge being nothing more than a slow of mucus similar to what issues from all instanced surfaces. See Exudation, (300, 301.) I shall consider it, therefore, as a virulent muco-puriform gleet—the method of preventing which, after commerce with a suspi-

cious

cious woman, has been pointed out, (101.) the means must be supplied of discovering and curing it, when it has begun to exert itself.

DESCRIPTION. To this complaint both fexes are equally liable-and it is generally allowed to manifest itself in each in the

following manner:

IN THE MEN--fome days, from four to fix, feldom longer, after the reception of the contagious matter, there arises not an unpleafant titillation in the glands of the penis, (55.) in the orifice of the urethra, (54.) there appears a little thin liquid-foon after which the orifice swells, grows red, with a degree of heat, and is more than commonly open-in a small space of time there is a fenfation in making water, hot and fealding, and fomething like the pricking of needles-a kind of matter, more vifcid than the former, and in larger quantity, makes its appearance, isluing from the urethra-that when the difease is more violent in its attack, through the course of the urethra, as far as the neck of the bladder, there is perceived a fort of tightness or fullness, attended most commonly with erections, more frequent and painful than usual-the inflammation now begins to increase, if left to itself, every day, consequently the heat and pain, and the difcharge puts on a yellow or greenish appearance, sometimes mixed with bloody ftreaks-if the inflammation runs high, there will not unfrequently be pains in the groins, tefficles, and loins -fometimes a strangury, (367.) will come on, and the patient at night will be tormented with erections, and a bending downwards of the penis, called CHORDEE.

At length all these symptoms grow milder as the inslammation abates—the discharge becomes white, and more uniform, and at last issues from the urethra white and viscid like a fine thread, gradually diminishing, 'till appearing, now and then on-

ly, in drops, it totally ceases.

This is the description when it pursues its natural course, ac-

counted for by the inflammation receding by degrees.

IN THE WOMEN, it discovers itself by a sense of itching at first in the external orifice of the vagina, (51.) and a more than common moisture—in a sew days the parts begin to instame, grow hot, swell, and become very painful, occasioning a scalding in making water, but not so painful as in men—add to these, a discharge of virulent discoloured muco-purisorm matter makes its appearance; and, as the inslammation goes off, becomes white and more viscid, and by degrees entirely ceases.

With these appearances, we should naturally conclude that a patient had received the virus; but this is not always the case; for the very same may rise from other causes not associated with

the venereal taint, as very fevere exercise-hard riding, and immoderate drinking—the too copious use of very heating stimulants, using too caustic injection by way of prevention-or, in fine, whatever will bring on an inflammation of those parts-I mention this, because sometimes, particularly when these circumftances arife in married people, it is effentially necessary to make the proper distinction, to save the peace of a family—as I have feen that peace nearly destroyed by the indiscretion and rathness of a practitioner, pronouncing in a husband that difcharge venereal, where the ties of connubial honour had never been infringed, and where the character of the wife was, with great justice, unfullied. In our opinions, therefore, we should be extremely cautious, and wait for the appearance of some unequivocal symptom before we pronounce positively, particularly as the first stage of the discase may be cured in the same manner as should be advised in cases of simple inflammation without any venereal taint.

This complaint we confider as a virulent muco-puriform gleet, arising from irritation, produced by venereal virus, after impure concubinage, attended with inflammation of the urethra, a flux from thence of puriform mucus, and a heat or scalding in making water.

The common term CLAP arises from the old French word clapieres, which were single shops, kept and inhabited by single prostitutes, and generally confined to particular parts of the

town-

CURE. The indications are, to take off the inflammation, and give strength afterwards to the vessels, which have been

weakened by too strong action and distension.

If, therefore, at the onset of the disease, the patient is of a plethoric habit, strong stamina, possessed of great vascular irritability, we must have recourse to bleeding and gentle aperients for two or three days, and plentiful dilution with watery sluids, such as barley-water, linseed-tea, marsh-mallow-tea, or solution of gum arabic in warm water—bathing the penis once or twice a day in warm milk and water, or poppy head decostion—keeping the glans clean, and supporting the testes by a suspension.

The opening medicines may be given occasionally, so that two or three stools may be procured every day, (No. 23, 24. 66. 97. 99. 135.) any of which, as best suits the patient, may be administered.

After three or four days, when the discharge begin to flow copiously, we must alleviate the inflammation by the sedative injection, (No. 164.) which should be thrown gently up the

urethra two or three times a day, and retained for some time after each operation—when this has been used for sour or sive days, or sometimes longer, 'till the painful symptoms appear to be yielding, and the discharge alters its colour, and grows more viscid, to this may be added six or eight grains of acetated cerus, and applied in the same manner, and in a few days more the cure will be often completed—but the discharge in some cases will be of longer duration, from the relaxed state of the vessels, brought on by the preceding inslammation—when this is the case, the discharge is much whiter, or clear—the consistence viscid and ropy, under which circumstances, we must have recourse to the restringent injection, (No. 165.) or that made with calomel, (No. 166.) for this acts as a local stimulant, and

may therefore be ferviceable.

But though this method will generally succeed, there is fometimes one fymptom extremely troublesome, and calls for particular attention, should it be violent, which belongs to the first stage of this complaint, that is, the CHORDEE, fo called from the Greek word korde—this is a contraction of the under part of the penis, which, when it is erected, and only then, is painful, and feels as if pulled down with a chord—this pain is chiefly under the frænum, (a membranous ligament under the penis, which ties the præpuce to the glans,) and along the duct of the urethra, for the alleviation of this symptom, low living is particularly necessary-gentle exercise-avoiding allinebriating liquids-lafeivious conversation, and the company of lewd women-the penis may be bathed often in a day with warm milk and water, or the sedative fomentation, (No. 111.) may be used, keeping the glans covered with the præpuce during the operation-and poultices of bread and milk may be applied to the parts.

Bleeding with leeches upon the part has been highly useful —wearing tight drawers, by which means the penis may be confined downwards to the thigh, and erections prevented,

which greatly aggravate the painful affection.

Sometimes it will happen, that, from the violence of the irritation, the fecretion of the mucus feems to be totally suspended, or, at least, considerably diminished, so that no discharge, or only a very trisling one, takes place, though the other symptoms rage with great violence, under these circumstances we must have recourse to bleeding, emollient applications, somentations, (No. 85 or 111.) and poultices, these are necessary to abate the irritation, and bring on the discharge—and here also opiates are necessary—afterwards we must have recourse to the same remedies as we have before specified.

Befides

Besides the symptoms we have repeated, sometimes uneasiness in the glands of the groins, and swelling, called buho. and similar effects in the testicles, occasioning pain and tumesactions, will occur; but these arise from sympathy, where no absorption of virus has taken place, and will yield to the same modes of treatment as above laid down, consisting of the cooling plan and

topical fedatives.

But when the virus is absorbed into the habit, it gives rise to variety of complaints, which have received various appellations from the parts affected, but are all owing to one and the same cause. The disease then is considered as the rox, or LUES VENEREA, which may be communicated to the habit, wherever the venereal virus gets infinuated into any part which is wounded or ulcerated, or from ulcers formed by its own acrimony, or from parts being touched by it where the skin is abraded—and the places where the acrimony sirst makes its entrance, are those where the disease in general first makes it appearance—and as coition is the most common way of contracting it, so the first symptoms most frequently appear somewhere upon the genitals.

DESCRIPTION. We may justly suspect that the virus is dissused through the general mass of lymph, if the local symptoms, such as shankers, buboes, &c. do not give way to the usual methods of cure, or, when cured, if they break out again without fresh contagion—but if, at the same time, we find ulcers breaking out in the throat, dry scabby eruptions on the skin, or hard callous tubercles, or pustules covered with a yellow scab, and appearing chiefly on the hairy parts, we may

be certain that the case is confirmed.

But fometimes these symptoms appear without any disease of the genitals, and may be produced by other species of acrimony---it may be necessary to give what we considered their characteristic appearance.

Venereal eruptions have a branny appearance, and are supersicial, unattended with itching, and the scales being picked off, the skin appears of a reddish brown, or rather copper colour

underneath.

The tubercles or pustules, seldom occupy the cheeks or the nose, nor have a purulent apex, but are covered at top, either with a dry branny scurf, like the eruptions just mentioned, or else with a hard dry scab of a tawny yellow colour; they particularly break out amongst the hair, or near it, on the forehead or temples.

Venereal ulcers of the mouth first affect the tonfils, avula, and fauces, then sometimes, though very rarely, the gums---frequently extend to the nose, and are callous or hard in their

edges---they are circumscribed, and, for the most part, circular, at least they are consined to certain places---are generally hollow, and most commonly covered with a white or yellowish slough at the bottom --are red in their circumserence, and frequently corrupt the adjacent bones---and are also, in general,

combined with fymptoms known to be venereal.

With respect to pains, those which are deep seated, particularly of the arms, head, and shins, always fixed in the same place, and which affect the middle and more solid part of the bones of the arms and legs, and those of the head, raging chiefly and with great violence in the fore part of the night, may be held as sure signs of this disease—but other wandering pains of the membranes of the muscles, and the ligaments of the joints, though they may arise from a venereal taint, they cannot be considered as certain signs without other symptoms of the lues

are apparent at the fame time.

Hard indolent swellings in different parts of the body, as in those which are fleshy--in the periosteum; upon the tendons; upon the ligaments; or upon the bones, or those extuberances at the verge of the anus, called fici; though they are all of them figns of a confirmed lues, if they are not preceded or accompanied by some certain figns of this disease that are more certain and evident, we should be very cautious of concluding that they proceeded from venereal virus; for they may depend upon fome lurking scrophulous humour. And here we must observe, that when they derive their origin from this last clause, they are very feldom painful, or tend to inflame or fuppurate, whereas those which are venereal usually do; and, if they lie upon a bone, generally produce a caries --- upon the large bone of the leg, fore arm, and those of the skull, these carious ulcers are most commonly met with, and when they are associated with nocturnal pains, we never can helitate about pronouncing their specific nature

Frequent abortions, or the exclusion of scabby, ulcerated, half-corrupted, and dead sœtuses, happening without any manifest cause to disturb the sœtus before its time, or to destroy it in the womb, may be reckoned as a sure sign of one of the pa-

rents being contaminated.

The more recent the complaint is the less difficult it will be to cure---and the habit of body is a material confideration; for those whose blood is in a mild and bland state suffer less confiderably than those who have their juices acrimonious; for the disease is remarkably violent, and extremely disticult to cure, in scorbutic and scrophulous constitutions---and in a person already inclined to asthma, pulmonary consumption, dropsy,

gout

gout, or any other chronic diforder, it is also more tedious, for the same reasons, than in one whose habit is in a sound and healthful state; for as the original disease is increased by the accession of the venereal virus, of the lues is aggravated by being joined to a new disorder, insomuch as the constitution la-

bours under complicated mischiefs.

The remote symptoms arise, and the more they affect the bones, so much the more difficult the cure; because the venereal virus appears to occupy the minute parts of the habit, and be very universally diffused through the humours—but the malady becomes incurable if the virus affects the brain, the lungs, the liver, or any of the nobler internal parts, the patients will either fink under that consumption called tabes, or die apoplectic-

CAUSES. The remote or inducing are, all those applications which inflame or dry up local venereal ulcerations, whether aftringent given internally, or exhibited externally, or the dif-

cussion of buboes without the exhibition of mercury.

CURE. The indication is, to free the habit from the venereal contagion, which may always be done by mercury in fome shape or other, either alone, or combined with some other medicines, which the peculiarity of the constitution may demand, as in every species of this complaint, or every complaint arising from this source, where we are called in before the virus has got simply rooted in some of the more noble organs of vitality.

Different practitioners have been fond of different prepara-

bit.

Some advise calomel to be rubbed on the inside of the lips, or cheek, to the quantity of four grains every day, and let it be ta-

ken into the habit by the absorbent system.

Others prefer the mercurial ointment, (No. 167.) from half a dram to two drams to be rubbed on the infide of the thighs above the knee once or twice a day for some space of time, 'till all the venereal symptoms vanish.

Some have been fond of calcined mercury, (160.) and opium, half a grain of each formed into a pill, and taken night and morning, with a decoction of the woods, (No. 88.) increasing the

dofe to a grain each or more.

Others have given the preference to the corrofive sublimate folution, (No. 168.) mixed with half a pint of barley water, or decoction of the woods, (No. 88.) to be taken night and morning.

The patients should lie in bed to sweat after taking the medicine, and they ought to drink plentifully of whey, barley-water, or fome such liquid, throughout the day—and if the medicine acts not as a gentle aperient, a mild purge may be given occasionally. It has been observed, that those whom it purges two or three times a day get well sooner than those whom it does not purge—it very seldom affects the mouth, but promotes discharge by urine and the skin. This course is to be continued some weeks after all the symptoms disappear—and the decoction of the woods should be taken for some time after the solution is left off.

Some prefer the sublimate pills, (No. 169.) under the idea of their being more easily and safely taken in greater quantity, and from the stomach bearing it better in this way; for the pills, gradually dissolving, are said not to affect the stomach sale.

denly as the folution drank.

However, I think quickfilver mechanically divided into its most minute parts, which art is capable of completing, the best mode of administration, as in the mercurial gummous solution, (No. 170.) or the mercurial gummous pill, (No. 171.) as the

torm best pleases.

These seldom produce salivation, if some purgative is exhibited every tenth day, and are said quickly, safely, and please santly to take off all the effects of venereal virus, where no chirurgical operation is necessary, and then to be highly useful in expediting the cure; for by this mode of administration, a sufficient quantity of this powerful medicine may be thrown into the habit with the greatest ease, without producing those violent effects the saline mercurials are very apt to occasion—and, perhaps, it is from this power of filling the habit by these mild means upon which its superior efficacy depends.

For children, where mercury is necessary to be given, the mercurial fyrup, (No. 172.) for obvious reasons, claims the

preference.

Where mercury given in these modes sail, which, under proper management, it rarely does, corrosive sublimate has been recommended—esteemed by many the most preferable preparation in venereal diseases of the skin, and those of the benes-

Some cases there are, however, which will not yield to mercury alone, and some where success has been derived by varying from time to time the mercurial preparations administered, and conjoining them frequently with cicuta—administering sar-saparilla decoction, that of mezereon, (No. 173.) or bark with chalybeates, or cooling medicines, opiates, antispasmodics, or cordials, such as the constitutional circumstances required. But here the fagacity of the practitioner must be left to make the necessary distinction, as it is impossible to point out up upon paper

paper precisely the deviations which may occur. We shall only observe, that where the disease resists the modes we have laid down, the practitioner must labour to find the constitutional desect, and combine with mercury other remedies appropriated to its relief.

Besides, there are now and then some venereal symptoms which will remain, notwithstanding the mercurial course being properly persisted in, such as nodes, and swellings of the periosseum—these are sometimes cured by the mezereon decoction, (No. 173.) or the compound one of sarsaparilla persisted in for a long continuance of time, which will be aided much by the warmth of a southern clime. As for other local affections, surgical assistance is not immediately necessary; for healing up of shankers, and discussing buboes by too hasty external applications, has often created mischief—cleanliness and dry lint, in the sirst instance, and depending on internal remedies for the cure of both, is by much the soundest practice, and will almost always answer, if the complaints are simply venereal—if otherwise, and they obstinately resist this mode, the skill of a surge-

on may become a necessary auxiliary.

With respect to a salivation, it is seldom, if ever at all, necessa-Ty-however, if it is determined on, before the course is begun, should the patient be of a full habit, it is adviseable to take away fome blood-have recourse to the warm or vapour bath, two or three times, and clear the stomach and bowels with a dole of gentle physic-then let the patient put on a flannel shirt-and half a dram of mercurial ointment, (No. 167.) must be rubbed in on the inside of the thighs every evening, gradually increasing the quantity to two drams, or more, if the constitution requires it, 'till a spitting is brought on-and this must be kept up for a fortnight after every venereal symptom has disappeared-the patient should drink plentifully of some diluting liquid, as barley water with gum arabic, marsh-mallow tea, or such like-and persist in a light, easily digestible diet -- avoid the cool air -- and spit from a pint to a quart every day --- the more gradually the falivation is brought on the better.

If we want to prevent the mercury from laying too strong hold of the mouth, it must be diverted to the skin, by keeping the patient in a constant state of perspiration, from the warmth of the room, by drinking plentifully of warm, diluting watery liquids—or, should he wish to avoid a spitting, the patient should take from time to time some gentle physic, or get into a vapour bath—and this mode is thought by some the most adviseable, as by these means we shall be enabled to throw in a

large quantity of mercury—if inflammatory fymptoms occur; we must have recourse to bleeding, and confine the patient to a low diet, and copious dilution with watery mucilaginous sluids—but should the strength be much reduced, a nourishing diet, with wine, infusion of bark, and some chalybeate preparation, and a free country air, are peoper.

Alter the course is completed, and the cure performed, the patients should return to their usual modes of living, as has been repeatedly recommended, when recovering from any as

cute difease that has much harraffed the constitution.

SECTION XX.

WE now are to treat of diseases of the skin—some of which are considered merely as local complaints of the skin itself, beginning in, and not extending themselves farther than that part of the machine; whilst others depend on acrid states of the humours, and are more generally dissufficient through the habit, putting on different appearances, according to the parts they affect, and very often alternating with those on the skin; so that, on the expulsion of the acrimonious humours, they manifest themselves on the exterior surface of the machine; and on being expelled, occasion internal affections.

We shall, therefore, form this class of complaints into two divisions, after particularizing some, and from thence deduce

our general modes of cure.

And, first, of the

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fo called from the effect it produces. Different are the causes from which this complaint may arise, as the scurvy, so called, lues venerea, &c.—but as these eruptions are only symptomatic, when thus derived, we shall confine ourselves to the common itch.

DESCRIPTION. This is discoverable by small spots about the fize of a millet feed, or somewhat larger, which, broken by scratching, form a scab, itch violently—it is contagious, and chiefly affects the hands.

This disorder chiefly begins between the fingers-red, hot ver ficles, full of actid ferum, make their appearance, to which

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by feratching, dry, rough scabs, attended with great itching, fuc-

But this, according to the state of humours being more or less in a bland or acrimonious state, purs on different appearances—hence the spots, instead of being merely vesicular, will have here and there appearances of matter contained in them, especially if the disease has been of any continuance, and the patients very dirty—however, we may in general discover some spots manifesting the true itch, particularly in the places where there is the most warmth, as between the singers, in the bend of the arm, under the arm-pit, in the interior part below the knee.

Children are more subject to it than adults—delicate habits with foft smooth skins, and adults more than old people—all which is owing to the softness and moisture of the skin, and quick-

er fenfibility of that part in one than another.

The CAUSE is univerfally believed to be, animalculæ in the fkin—and, from the idea of this complaint so founded, a number of the appearances is readily and satisfactorily accounted for, as why it is attended with itching, why caught by contagion—and

why it returns after fometimes being cured-

The itching is occasioned by these animalculæ irritating the sibres in the places where they are lodged-hence raising a very minute blister, which, provoking us to scratch, is burst, and serum then oozes out and sorms a scab--and these animalculæ running under the cuticle, or scarf skin, (25.) deposit their eggs in various parts, which, by the heat of the machine, are hatched, and thus the disease spreads itself--by contagion, it is communicated either by the animalculæ themselves getting from the affected to the sound person--or from touching any soft substance where they may be lodged--or from the person receiving some of the eggs upon the cuticle, which are rubbed into the surrows, and there lay a proper time for producing their young---and probably its return may be owing to the eggs not being totally destroyed in such as were affected, and apparently cured.

Sometimes little prominent spots, itching and crowding together, neither excoriated nor scabby, will affect the skin, from a retention of acrid perspirable matter, made more acrimonious by stagnating in the small cryptæ, hollow places like cavities, containing some sluid, and small glands, called sebaceous glands, of the skin and face-these are called TETTERS or HERFES, from erpo, repo, to creep, because they creep from place to place, and, like the former, are only inherent in the part affected, and do

not contaminate the mais of fluids.

These we give as specimens of cruptions from external causes—these happen indiscriminately to all people.

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But

But in infants, or the younger class of mankind, the skin is often croded with an acrimonious ferum, and more frequently the hairy scalp in the skin, which begins at first to grow moist, with an itching-hence children rub their heads against the pillows, or any other thing they lie upon-when this difeafe is in its beginning, a rather acid and very naufeous fmell may be perceived-hence fome have called fuch eruptions ACORES, from acer, tharp or four-afterwards the skin begins to grow red, becomes granulous, then they have named it HERPES, MILIARIS, miliary tetter, because the disease spreads and creeps along, and fpots like millet-feed are prominent above the skin-others have called it FICOSUS, from ficus, a fig, because in the skin the eruptions look like the small round seeds of a fig cut in two-then is the effux of ferum augmented, which in a small space of time are concreted into foul feabs, which fometimes are fo thick, that they are penetrated with many very fmall apertures, and now permit a fomewhat thicker humour to ooze out; but that begins to adhere on all fides to the crust or feab, increasing its thickness, grows putrid, erodes the skin, and there degenerate into deep ulcers, which pour forth an extremely fætid humour; and, as a moth-worm deftroys cloaths, fo does this the fkin-hence is derived the term

§ 2. TINEA,

a moth-worm. It has also been called FAVUS, from its resemblance to a honey-comb—and in English SCALD-HEAD, from scald, scrufy or scabby, and head—when on the head it bears that name—when on the face, CRUSTA LACTEA, or milk scab-indeed they both have been reduced to the same species, and called HESPES PUSTULOSUS, pufulous tetter, and this is considered as the mildest of all, infesting the forehead and temples, but occurs only in infants one or two years old whilst they make use of milk-hence the term CRUSTA LACTERA, or milk scab.

DESCRIPTION. This, to which we shall confine ourselves, begins with numerous little vesicles, or bladdery appearances, full of an oily fluid, cohering together, at first white, afterwards yellow---these vesicles, dried and shrunk up, pour forth a small quantity of colourless liquid milk, which, being dried, forms scabs; and they are either dry, or moist, white, or yellow, seldom brown--they itch, from whence the child scratches them off, which, being removed, the skin appears bright; but very often there appears small apertures, whence again slows out a viscid

humour,

humour, forming feabs--the disease cured, the skin remains perfect, and free from any defect.

This affection fometimes creeps to the posterior part of the head, ears, chin, neck, and, indeed, through the whole surface

of the body.

Gross, fat children are liable to be affected with this, who abound with milk, who suck fat-greedy nurses, full of milk-it also occurs in children replete with the seeds of the scrophula, (469) not yet making its appearance, or whose blood is vitiated with acrimony, from the faults of nurses-who are irascible, fond of liquor, scrophulous, or subject to any acrimony of their fluids.

§ 3. LEPROSY.

from the Greek word lepros, asper, rough, because the skin becomes rough with scales-and Elephantiasis, from elephas, an elephant, because this disorder creates some appearances in the legs like those of an elephant. From the accounts given by Aretrus and Celsus, many have taken the two diseases to be the same, only in different degrees, supposing the Leprosy more superficial, the Elephantiasis more deep-seated, calling one the leprosy of the Greeks, the other the leprosy of the Arabians-but modern authors have divided them into different genera, and have given us separate symptoms by which they may be distinguished-however, we shall confine ourselves to the former, as the elephantiasis, though endemic in Egypt, seems totally abolished in Europe.

DESCRIPTION. This is discoverable by hard, thick pustules or tubercles, or dry scales like warts, rather of a reddish colour, affecting the sace and hands, without pain, sometimes the whole body, though in the vicinity there is an itching, and sometimes these pustulous eruptions themselves itch also--the skin frequently near them is rather pasty, commonly destitute of sensation, and the legs affected with a soft, pale, and in elastic swelling--sometimes the eruptions ulcerate, and afterwards become scabby--if a number of these make their appearance, it is called

the moist leprofy-if otherwise, the dry.

Sometimes different parts of the body will be covered with dry scales, which are white, and lay one upon the other like the scales of a fish-these are large, and, amongst the people of Asia are surrounded with a red circle; and some have observed, that the eruptions were not only scaly, but smelt like fish-hence this kind of leprosy was called ITCHYOSIS, from the Greek word ikthus piscis, a fish.

Now.

Now, the tinea and leprofy we take to depend upon some acrimonious humour diffused through the habit, and, by the efforts

of nature, deposited upon the ikin.

According, then, to the causes and constitutional circumstances do we form our indications of cure; for having not, in the ITCH and TETTER here recited, occasion to fear any ill consequences to be derived from repelling any humour into the habit, and the causes creating them being merely external, external applications will be fufficient to form a radical cure, at least very trifling affiftance will be requifite from internal remedies --- whilst in the SCALD HEAD and LEPROSY, fuch internal remedies are necessary as will clear the habit of those acrimonious humours, by promoting regularly and conflantly fome of the natural evacuations, particularly that of perspiration and urine, and, at the same time, to supporting the strength of the system, and especially that of the digestive powers, that foft, mild, nutritious sluids may supply the place of those which are evacuated, and the disposition which the conflitution has to generate acrimony fo offensive may be altered as much as in the power of medical aid to accomplish --- and indeed the same modes will hold good in all the varicty of eruptive complaints, unattended with any fever of moment, which are of long continuance, and come under the denomination of land fourvy, &c. and which we have not before specified.

In order, therefore, to exemplify the different modes, we shall proceed to speak of the cure of the four just now mention-

ed-and, first, of the irch, whose

CHARACTERISTIC SIGNS are, puffules, or itching fmall ulcers, contagious, and chiefly affecting the hands, from fmall

animalculæ irritating the skin below the cuticle.

CURE. In strong robust constitutions, it may be adviseable to take away some blood, and give a dose or two of gentle physic—then let the skin be well cleaned, by going into the warm bath, and afterwards have recourse to some of the applications, (from No. 174 to 177.)—With regard to sulphur, we must observe, that what is called sulphur vivum is preserable in these cases as an external application, because, in forming slowers, it loses much of its esticacy—the slowers are also ordered to be taken internally, as it is supposed that some of the animalculæ might be too deep-seated for the ointment to assert them, hence might they be reached by the streams passing through the skin—indeed, coupled with a little cream of tartar, it makes an agreeable opening and diaphoretic medicine.

With the mercurial wash and ointment it will be sufficient to wash or anoint the parts affected, or to rub some of the latter

into the palms of the hands or wrifts---and it would be right now and then to take fome gentle physic, and drink copiously of some aqueous liquid, to prevent the mercury from affecting the mouth.

If the complaint proves obstinate, as it will sometimes do if it is of the dry species, warm baths may be used during the external applications, and small doses of antimonials, (180) and mercurials, (160.) exhibited with a decoction of the woods, (No. 88, 89.)---but these are seldom necessary, though they are useful as auxiliaries, where the acrid state of the humours is a concomitant. Notwithstanding mercurials have been advised, and almost always succeed in the cure of this complaint, there have been instances where it has continued, even after the patient has gone through a salivation---under these circumstances, where mercury has not been essications, sulphur is our dernier resort.

With regard to the herpes or tetter, it is cured by topical applications, and of such kinds as by their slimulus and astringency give strength and sirmness to the part affected, so that the matter of perspiration is made to pass off freely, and prevented from accumulating on account of the weakness and relaxed state of the places wherein the complaint manifests itself---of remedies of this fort there are a great variety, such as ink, water of kali, oil from burnt paper, rags or wood which is actid; this is to be diluted with fasting saliva, and the part affected anointed with it---but the most preferable is a wash formed of ten grains of muriated quicksilver dissolved in a pint of water; solutions of the preparations of lead, (139.) have been in the milder kind of this disease useful and efficacious.

The TIENA, or SCALD HEAD, that species to which we confine outselves, has for its CHARACTERISTIC SIGNS, small ulcers in the skin of the hairy scalp, at the roots of the hair, oozing out a humour running into a white, dryish scab—when this happens to children otherwise apparently healthy, the body should be kept open with mild aperients, such as magnesia and rhubarb, or Polychrest salt, in properly proportioned doses; the hair kept close cut and short—the parts clean, by washing them with soap and water—and a moderate diet prescribed.

Indeed, it is usually cured by weaning the child, or changing the nurse, whose milk is younger, thinner, and less loaded with oily matter.

These children get the teeth later, and with more difficulty—their bowels are collive—and often there appears a propensity to rickets—without the eruption should be imprudently repelled, nothing else is necessary to be done—but if it should be

attended with an acrimony of the humours, and spreads itself to different parts of the body, a young number thould be chosen whose milk is bland and well diluted, not rich and thick; she therefore should live on liquid or moistening food; at the same time, if restless, gentle opiates may be now and then given to procure sleep.

Should this complaint prove obstinate, and be attended with great itching, a paleness of the countenance, and the sleshy parts appear relaxed and slabby, here we must have recourse to small doses of caloniel, as an alterative, and antimonial wine, with the same intent, proportioning the doses to the state of the stormach and bowels, that the one may not purge, nor the other

occasion too constant fickness or nausea.

To allay the itching, the head must be rubbed with oil of sweet almonds—feveral recommend the pitch ointment of the Edinburgh Dispensatory, which I have found effectual—cream mixed with chalk in fine powder—solutions of the preparations of lead, and that of muriated quickfilver, as in case of tetter, may be had recourse to.

In every cruption of tettery kind to which children are liable, of which the scald head we consider one, Mr. Bell afferts, the sulphur, in some form or other, commonly proves the most effectual application, therefore, in failure of other remedies, sul-

phur should be employed.

However, of these remedies I should recommend a very cautious use, because I have seen great mischiefs occur from the injudicious application of stimulants and repellents in some cases, from the idea of the complaint being merely cuticular, borrowing nothing from the habit in general—indeed, so obvious has it been, that soon after the repulsion of the humour, coughs, and febrile symptoms have come on—uncasiness in the bowels—perceptible emaciation, which, upon the reappearance of the complaint, have all gone off—in a country town, where it was the practice of the old women to cure the scald head with perpentant butter, it very often proved fatal.

I thould therefore advite that cleanliness, change of nurses, or weaning, with the use of gentle purgatives, should be first tried --- if these succeed not, the use of alteratives and antimonials, or the ponderous muriated earth, should be tried for some time, and issues, before recourse should be had to any of the preparations of lead, mercury, or sulphur, then they might be tried with safety, as I have from experience been convinced--- and these should be continued 'till the complaint be totally cured, and the constitution has recovered its usual strength and sirmness--when this has been repelled, it has been thought adviseable to endea-

wonr to folicit the complaint back again, if any internal fymptoms manifested themselves, which, it is said, may be done by the application of the leaves of bete to the part originally affected; but of this I have had no experience-it might, however, be tried, whilst the other internal remedies above recommended to car-

ry off the humour were perfitted in.

In the CURE of the LEPROSY, whose CHARACTERISTIC SYMPTOMS are, the skin rough, with white eschars, which have a branny appearance, and are chapped --- fometimes moist underneath and itching-warm baths, a clear pure air, with a thin laxative diet, are effentially necessary --- and also the use of antimonials and mercurials -- though a falivation exasperates this disease, fix grains of calomel, with one of camphor, may be exhibited once a week, and purged off with a common purging draught in the morning.

Dr. RUSSEL afferts, he cured the dry leprofy in the courfe of a month, by giving a bolus made of the flesh of vipers, twenty grains, and one of camphor, with a little conferve of rofes, every night, and the morning following half a pint of fea-water -- viper broth, or chicken broth with vipers, has been confidered as beneficial --- but the greatest success has been attributed to the decoction of the interior part of the elm-tree, (No. 178.) which should be continued several weeks -- and should, by its use, the efflorescences be augmented, it is a pleasing symptom, as it promifes a falutary termination.

We have had instances of this complaint, where the symptoms have put on a high degree of violence, being cured by bark and fassafras, (No. 179.) and the application of a slimulant lotion, (No. 180.) night and morning, a perpetual blifter being at the

fame time kept open between the shoulders.

In complaints of this class I have found great benefit from the judicious use of mercurials and antimonials, intermediately giving the ponderous muriated earth, with the compound decoction of farfaparilla of the London Dispensatory -- to a quart of which I have occasionally added fix drams of Peruvian bark.

Indeed, in all eruptive complaints which are united with, and proceed from an acrimony of the fluids internally diffused, and manifest themselves by symptoms which bespeak general affections of the habit, or internal local ones, I should recommend the gentle evacuating and tonic plain, on the principles we have specified in the former part of this section; and shall now proceed to speak of some complaints which have been detached from the general arrangement intentionally, and one accidentally omitted-----

SECTION XXI.

§ 1. INFLAMMATION OF THE WOMB.

DESCRIPTION. This complaint is attended with heat, tenfion, fwelling, and pain in the lower part of the belly-vomiting, the mouth of the womb is so painful, that it cannot bear
touch, and is drawn inwards-there is a continued sever, sometimes of the remittent kind, accompanied with childness, delirium, tosing about of the body-the head, though chiefly the fore
part, is painful, and also the eyes-convulsions of the neck, hands,
and seet come on-the pain extends itself to the groins, thighs,
midriff, and collar bones, associated with disticulty of breathing
and pleuritic symptoms;—nausea, vomiting, hiccough, costiveness--and pain in making water also manifest themselves-

In the beginning the pulse is full and quick, afterwards weak and frequent—to which are joined faintings, coldness of the extremities, drowfinels, with a number of other dangerous and vio-

lent fymptoms.

CAUSES. The womb may be affected with this complaint from all those causes which are apt to induce inflammatory affections in other parts. (See Inflammation, p. 298, &c.)—ob-structed menses—or any thing which will determine the blood too freely to the womb, and create an accumulation more than naturally large in that organ. But authors have very judiciously divided it into three species—1st, Into that which affects lying-in women—2d, That which is attended with a malignant sever—and, 3d, That which deduces its origin from the milk.

IN THE FIRST OF THESE, a suppression of lochia often precedes the complaint, or it is brought on by violent efforts of the accoucheur in dissicult labours, blows, compression, laceration from the singers, or the use of instruments, retention of coagulated blood, and great force exerted in replacing a prolapsus, or

falling down of the womb.

CURE. Now, where only the symptoms of common inflammation are the concomitants, such as local pain, heat, tension, and the pulse full, quick, and hard, bleeding must be had recourse to-fomentations and poultices—the patient should drink copiously of watery fluids—and take of nitrous, faline, and antimonial

monial medicines---and, in fine, the method pursued as in other inflammatory cases. (See Inflammation, &c.) Besides, here, all external pressure is to be avoided---if necessary, the urine must be drawn off by the catheter, and the rectum, (45.) emptied by glysters occasionally;---but if the complaint arises from a suppression of the lochia, and, notwithstanding all our efforts, the pain should continue, opiates may sometimes be given with success; for this may proceed from some spasmodic affections, occasioned by irritation.

THE SECOND most commonly proceeds from internal causes, as putrid acrid matter, or a translation of that which creates ery-fipelas to the uterus, discoverable by a burning heat internally-delirium, black dry tongue, and at the same time coldness of the

extremities, with a frequent and irregular pulse.

CURE. Here are required a freer use of opiates and diaphoretics, to determine the fluids to the skin, and evacuate the offending matter, because these cases seem more to depend upon irritating causes than mere inflammations—the patients, therefore, should be kept much in bed, moderately warm—drink freely of barley water, thin gruel, and these frequently repeated—go occasionally into the warm baths—and gentle diaphoretics, (180.) should be insisted upon, as antimonials in small doses, acetated ammonia, (180, 181.) nitre, (176.) and such like.

THE THIRD, is an acute febrile disease, attended with a swelling of the belly—tension, pain of the womb, thirst, head-ach, delitium, dryness of the tongue-disturbed sleep, although the lochia slow freely---and this inflammation sometimes precedes,

fometimes fucceeds delivery.

CURE. Here we should pursue the mode similar to what we have laid down in intestinal instammation-large evacuations, by bleeding, purging, with diaretics, and a thin spare regimenthe milk also should be solicited into the breasts by every possible means, setting the child early to the breasts, applying cupping glasses, faline mixtures, and antimonial preparations, given

at proper intervals, and the breatls kept warm.

With respect to bleeding, some have thought it unnecessary, because of the discharge of the lochia; but in this case a larger quantity by much than what slows in that case is necessary to be taken, that death may be avoided, and the deposition of milk in the abdomen, or a milk abscess, may be prevented;—for this discase has been said to be satal to many women—and in opening the bodies of those who have died of this discase, a milky, thin, or grumous matter, to the quantity of a pint, has been essued in the abdomen.

But

But if the fever should be moderate, the lochia, sweats, and slow of milk into the breasts proper and natural-there should be no swelling of the abdomen-no head-ach, particularly if there should be a looseness and bilious stools, it will be sufficient to support these evacuations by drinking copiously mild thin gruel --taking oily medicines, and the use of sheathing glysters. See

PUERPERAL FEVER. (243.)

Now, from the accounts given of these three species, the indications of cure are plainly pointed out to us. In the first, we endeavour to take off the inflammation by the common mode directed for subduing inflammatory complaints of other parts. In the second, we attempt to evacuate the acrimony. And IN THE LAST, to prevent the coagulation of the milk, or its effution into parts for which it is not destined by nature, by soliciting into and keeping it in its natural reservoirs.

§ 2. MENSES;

fo called from the Greek word, mene, mensis, a month, from that being the usual time of their periodic appearance—they are called, for the same reason, also menstrua, or catamenta—when these slow in their natural state, there is a slux of blood from the vessels of the womb and vagina, (51.) every month—in some every three weeks—they generally first make their appearance about the age of sourteen or sisteen—sometimes at an earlier period—and go off, or cease to slow, about the age of sorty—nine or sisty—sometimes sooner, if they have made their appearance at an earlier period than common—this discharge, though very salutary when it slows regularly, and in due proportion, is always attended with disagreeable consequences when it is either too profuse, too desective, or altogether obstructed.

When the menses flow too copiously, continue too long, or return too frequently, so that the machine feels evident increase of debility, this we consider as a disease, called

MENORHAGIA, from mene, mensis, and reo, sluo, to slow, which may arise from too rapid circulation of the blood, hence called ACTIVE--or from too relaxed a state of the uterine vessels, then called PASSIVE.

IN THE FIRST CASE, it is generally preceded by head-ach—oppressed breathing, attended with heat, thirst, quick sull pulse, pain of the loins, often down the thighs—and other febrile symptoms—in this case we must be exceedingly careful that we do not attempt to stop the slux of blood too suddenly, not 'till the vessels have sufficiently emptied themselves, or that has been per-

formed

formed by art—then we are to proceed on the cooling plan, and order such remedies as will abate the too great vascular action, such as we prescribed in cases of ACTIVE hamorrhages when on that subject, (389, &c.) such as bleeding, nitrous medicines given copiously, with cooling emulsions, and a spare cool diet, and keeping the body open, is essentially necessary—care should be taken to avoid heat—violent agitation, and exercise, and every mental, as well as corporeal exertion; for these will give too great force to the circulating shuids, and contribute to increase the complaint.

But at the early period of the disease, if what is here recommended should fail of success, small doses of ipecacuanha, (No. 133.) or tartarized antimony, (No. 6, 7.) (168.) sufficient to create nausea, or gentle vomiting; for these take off spasmodic constriction from the surface, divert the flow of humours more generally to the external parts, and hence render the circulation

more equal.

On the other hand, when the face becomes pallid, the breathing is affected by very moderate exercise—the back feels weak and painful from continuing in one posture—the pulse grows feeble, the extremities become unusually cold—in the evening the feet appears pasty, and an uncommon weariness from exercise, this disease must be considered of the passive kind; and so may it also if there are frequent returns of the disease; and in the intervals of the periodic discharge, the whites, which we shall, next explain, constantly attend.

cold wet applications to the pubes and external parts—spunge tents dipped in vinegar and water passed up the vagina—the patient avoiding an erect posture as much as possible—lying cool on hair mattress—by shunning external heat—using a light and cool diet—taking cool assringent drinks, with assringents, (No. 56. 138.) and opiates internally—keeping the body open with gentle aperients, and avoiding every cause of

irritation.

And, in order to prevent a relapfe, we must endeavour to invigorate and give strength to the system, by cold bathing, preparations of iron, and bark, and moderate exercise in a clear cool air.

The diet should be of nutritious kind—and, during the flux, all those things called cordials should be avoided—though in some passive cases, where the flow is almost constant, joined with tonic remedies, they may be highly useful—and gentle exercise in a carriage has been said to moderate and contribute to suppress the sanguinary discharge.

3. LEUCORRHOEA;

fo called from the Greek lenkos, albos, white, and reo, fluo, to flow, because of the discharge being generally of a white colour—also Fluor Albus, white flux—it is vulgarly called the WHITES, for the same reason—this is a discharge of serous or mucous matter, sometimes white, or others yellowish, brown-

ish, or rather greenish, from the womb and vagina-

DESCRIPTION. At first this discharge is mild and serous, which afterwards, by not passing freely off, or stagnating, becomes more thick and acrimonious, and will be different with regard to its colour and smell—indeed, those symptoms which we have enumerated as concomitants to a morbid flux of the menses from a passive cause, generally here attend—and when the discharge is excessive, or of any long continuance, pains and weakness of the loins—indigestion—and other symptoms of debility—swelling of the eye-lids—thick urine—palpitation of the heart—trequent saintings, are almost always constant concomitants;—but in the early stages they do not frequently make their ap-

pearance to any great degree.

Indeed, the colour and confiftence of the discharge alter, from a variety of circumflances, according to the nature and duration of the difease, season, climate, and constitution-in warm weather, gross habits neglecting to keep the parts clean, from quantity or acrimony painful excoriations are occasioned, infomuch, that fometimes it has been difficult to diffinguish it from the effect of some venereal taint-and here it will be necessary to advert to fome concomitant circumstances-if a discharge comes on fuddenly, with fymptoms of heat and pain-if it is not attended with weakness or pain in the back-if the patient appears to be of a healthful strong stamina -- has had no children-no miscarriages --- nor severe or copious flow of the menfes-if the discharge should be thin and much discoloured at first, we may then suspect something of venereal affection in the cafe-indeed, I have known many cured of what they called the whites by means to which a virulent gleet, or clap, most readily yield.

However, the WHITES often occur in women who are subject to too copious a flow of the menses, or have them too frequently return, and are liable to this from causes which weaken the vessels of the womb and vagina—or are of a relaxed or debilitated constitution—hence it generally affects women advanced in life, particularly those who have had children, have often initearried, menstruated irregularly—also those who lead an inactive life; those who are full and jolly, and whose folids are loose

loofe and flabby—the more recent and whiter the discharge, the more easy to cure the disease; the longer the continuance, and the more green or brown the colour, the more dissicult.

CAUSES. Are all fuch as occasion a collection of ferum, and weaken the vessels of the parts affected, or the habit in general-hence living in moist air-feeding on viscid too food, leading a life of indolence-using too frequently warm baths; an immoderate flow, or an obstruction of the menses; or it may be occasioned by a translation of humours to the womb and

vagina.

CURE. Now it will appear obvious, as we consider the nature of the disease, whether local or general. so must we adapt our remedies, whether it depends upon the relaxed state of the vessels of the womb primarily and principally, or we attribute it to the debilitated state of the system; in the former, we may place much dependance upon external applications of the astringent class; in the latter, some medicines internally should be exhibited, which will not only give strength to the constitution, but contribute to maintain it in that state—hence, then, according to the different circumstances of the constitution, we must

regulate our modes of cure.

When it occurs in those who live fedentary and indolent lives. indulging in luxuries, and supporting themselves by a full rich diet, by which the habit will be loaded with grofs humours, their mode should be altered to a diet which is more sparing, and a cooling regimen, having frequent recourse to purgatives, and a more active state of life; but to those of a more weak, relaxed state of folids, we must invigorate the constitution in the same manner as directed in too copious flow of the menses from a passive cause, (500.) --- here it is of great use to keep the parts clean by frequent partial baths of cold water; and after gentle evacuations, in those who have lived indolently and luxuriously, an aftringent wash of the gentle kind may be made use of, such as the restringent injection, (No. 165.) with the addition of eleven ounces of infusion of roses; in those of relaxed habits, injections of bark with alum, alum water, infulion of tormentil roots, with litharge water, or some such aftringent preparations; for they are faid to diminish the discharge, and, in recent cases, entirely remove it.

Sometimes from a long continuance of this disease, the humours are apt to be acrimonious and irritating, and assist in supporting the discharge; then hartshorn jellies, or those of isin-

glafs, are agreeable and ufeful auxiliaries-

Sometimes those stimulants which act upon the urinary pasfages, and communicate their effects to the womb and vagina, have been thought beneficial in these cases; Spanish slies in tincture, joined with some of the preparation of iron, and bark, have produced good effects; balsam of copaiva; balsam of turpentine, and those of this class, have been considered as useful.

But, in cases of long standing, I have seen much benefit derived, during the use of astringent medicines, from a stimulating plaister or blister applied to the region of the sacrum, or

lower vertebræ of the back-

If the complaint proceeds from, or is supported by a vitiated state of sluids, that should be corrected by the use of antimonials and mercurials, taken for some time, with a decoction of the woods in lime water; and in this state of the constitution issues are extremely serviceable; after this course, local applications and astringents internally bid fair to produce those good effects, which they sail of doing without such an alterative plan-

of view, where they are either retained, suppressed, or stow with dissipation, and these are all comprised under the term AMENOR-RHOEA, from the Greek a, alpha, non, mens, mensis, month,

and reo, fluo, to flow.

THE FIRST OF THESE, or THE RETENTION of the menses, happens in women arrived at a state of puberty, in whom, after the usual time of their first appearance, they do not now manifest themselves; and when at the same time there are various affections, thewing the machine to be in a state of disease.

THE SECOND, or a SUPPRESSION, in adults, in whom the mentes, which have been accustomed to flow, are stopt.

THE THIRD is where they do flow, but too sparingly, attend-

ed with pain.

Now in the first of these, that disease, CHLOROSIS, from the Greek kloros, viridis, green, or pallidus, pale, from the colour of the countenance, called here the GREEN SICKNESS, is

induced.

pallid or yellowish countence, unassociated with any yellowness of the eyes, like that in the jaundice—small and weak pulse, at the same time languid, a want of alertness in motion, with lassifude and debility—the patients are assected with nausea, vomiting, often throw up wind, and have pain in the stomach—and, though they want appetite for common food, have a desire for such things as are not used for food, as chalk, slates, or other absorbents, green fruit—they are costive, and have other symptoms of indigestion; the whole body is pale and slaceid; and the feet and great part of the body become pasty—by quick

motion, particularly going up stairs, or climbing up hill, the breathing is laborious—palpitation affects the heart—fainting—fometimes a pain or giddiness in the head comes on, but more certainly pains of the back, loins, and hips. Now these symptoms are among the certain signs of this disease, when advanced to any considerable degree; indeed, in the earlier stages would be smost of them prevail, but not to that excess.

As the menses appear at different ages, we must not stile a person diseased because they slow not at a given time---but, if, after the common time has elapsed, there appear evident signs of indisposition, such as we have recited in their inferior degree, and less numerous, we need not hesitate in pronouncing the re-

tention a disease.

CAUSES. A debility of the fystem in general, bringing on a similar state in the vessels of the womb, whence a general languid and local uterine circulation, occasioning the menses to

be retained.

CURE. The indications are, to strengthen the system, and promote the action of the vessels, particularly those of the womb---and these are done chiefly by bark, tormentil root, and such like, joined with preparations of iron and bitters---the patients ought to live on a generous diet, go into the cold bath and use exercise---these will invigorate the constitution---afterwards, aloetic purges are useful---frictions of the lower extremities, and bathing the seet in warm water---indeed, all those purgatives are of service which stimulate the restum, as aloes, rhubarb, black hellebore, and calomel; for they communicate similar effects to the vessels of the womb-

Bliftering the lower part of the back, or flimulating plaisters

applied there, may be advantageously recommended.

Where this debility is brought on, as it fometimes is, by continued uneafiness of mind, occasioned by disappointments, or tedious delay in love, matrimony is an efficacious remedy—fome also have great faith in the electric shock; and, indeed, as

a stimulant, electricity bids fair to be of great service.

THE SECOND SPECIES, or SUPPRESSION of the menses rifes from a different cause, from some resistance in the extremities of the uterine vessels, originating most frequently from spasmodic constriction of those vessels, or, according to some, from a rigidity of them; the former seems to be the general cause, as it deduces its origin from cold, sear, irregular passions, fullness, or something similar, and this complaint comes on after the mensural discharges have gone on for some time regularly; for, on their first appearance, they will sometimes stop, and not return for a year, or perhaps a longer space—but, under this circum-

stance, we are not to consider this as a disease, without it is attended with some morbid symptoms, such as periodic sluxes of blood from some other parts, as from the noie, eyes, ears, inteltines, stomach, lungs, &c. which will sometimes occur in cases of suppression, hysteric symptoms, costiveness, frequent colic pains; for these in this species are very often comcomitants.

CURE. The indications of cure here are, to take off the fpasmodic constriction on the uterine vessels, which we attempt by that class of medicines called emenagogues, or promoters of the menses (183) amongst which I consider fabine, (149,

150.) as the most certain.

However, it is often sufficient for the patient to keep quiet--avoid cold, and irregularities of diet-go into the warm bath,
or sit up in a half bath, or let steams of warm water be directed to the womb--or warm fomentations may be applied on the
lower part of the abdomen, round the hips, and the tops of the

thighs.

But we must observe, that these applications are only to be had recourse to at the time when we expect nature would have made her efforts in a healthful state—and in some cases the patient will seel some symptoms similar to what usually manifest themselves before the coming on of the menstrual discharge at each period—it is then we should attempt to assist her, as most likely to be successful—but should the disease not yield to these applications, the remedies advised in retention of the menses, (503.) may be tried, particularly aloetic purges, electricity, and antispasmodies—though here we should be cautious in the use of tonic remedies and cold bathing—we should rather depend upon such as were more relaxing.

This complaint is very often brought on by other diseases of the constitution, and then is only symptomatic, to cure which we must advert to the cause, of whatever nature it is, and apply

our remedies accordingly.

THE THIRD SPECIES, or painful menstruation, generally affects the whole system sympathetically, and the parts which lie contiguous to the womb, producing pains in the loins, hips, and down the thighs...wandering pains of the lower part of the abdomen, of the head-occasioning also pain at the stomach--gid diness of the head, frequently sickness and retchings, a number of hysteric symptoms, and sometimes epidemic sits---and other new your symptoms, notwithstanding the menses continue to flow for some time.

This difease chiefly affects viragos, who are of full habits, and those who are lascivious, and is supposed to deduce its originarily from the weaker action of the vessels of the womb; and

perhaps, more particularly from some spasmodic affections of the

extreme veffels of that organ.

CURE. Pregnancy, for the most part, performs a radical cure; but the symptoms may be alleviated by what has been recommended in a suppression, (504.) made use of some days before the coming on of the menses—to which are recommended drinking every night before bed time, and in smaller quantities through the day, of any mild watery drink, a little warm, as balm tea, thin gruel, barley water, or such like, or slight infusions of mint or pennyroyal—frequent lying in an horizontal posture—or giving occasionally a spoonful of oil mixed with twenty drops of tincture of opium; or opiates, where oil is disagreeable, by themselves—

5. THE HYSTERIC DISEASE, CALLED HYSTERIA,

from the Greek ufteros, uterus, the womb, because the ancients imagined it to be a complaint proceeding from an affection of that organ--respecting the cause of this disease there have been a variety of opinions, we shall therefore proceed to the description, and from thence endeavour to point out what appears to be the most probable source.

DESCRIPTION. In this disease there are many symptoms observable which spare no part of the body; for the head, lungs, throat, belly, and many of its contained parts; and the extremities, have different appearances manifested in them, besides

more general affections of the whole machine.

With respect to the head, there is an oppressive pain, or sense of heaviness of the forehead, temples, and eyes, attended with an essuance of tears--a torpor or duliness of the senses and mind,

accompanied with a diffelish of all things.

Afterwards, those who are seized with the hysteric disease have, for the most part, a very costive state of bowels, a strong propensity to make water, which they do in large quantities, and then it is clear like water---and this Sydenham considers as a certain symptom--they have also a suppression of breathing, and

at the same time a languor of the whole body.

After this, great weight and pain are felt in the loins, and also coldness succeeds—the belly is hard and inflated—afterwards the navel is retracted, or drawn inwards towards the back, and then a certain kind of globe, or ball, is perceived to ascend from the lower part of the belly—by and by the heart begins to be affected with palpitation—and the pulse is irregular and hard, sometimes intermittent—the extremities grow cold—there is a sense of straitness in the throat, as if the patient was strangled with a rope, the sace becomes pale, the breathing very difficult, the voice fails, and the beating of the arteries are scarce any longer perceptible—but so great is the stricture of the belly, that

that neither any wind can be transmitted, nor a glyster--fometimes there is a vomiting of extremely four materials, or green bile.

In some, so great is the violence of this complaint, that the head and limbs are seized with strong convulsive motions---the trunk of the body is wreathed too and fro--and commonly the hands are clinched, and with one the patient beats violently upon the breast; sometimes though the hands continue open, others fall into a sound sleep, and lay without sense or motion, in some the sace and neck are inslamed with blood, look red, and the arteries beat strongly.

Some fall into immoderate fits of laughter, or of crying, which now and then alternate with each other very quickly; and, when the voice is reflored, talk incoherently, have false ideas, and whim-

fical imaginations, and fome degree of delirium.

However, though this is the general mode of proceeding, we must not expect to meet with all these symptoms in the same person; for the sits are varied in different people, and even in the same person at different times, both with respect to the numbers of symptoms, their degrees of violence, and length of time the sit continues—but whenever it remits, and begins to be mild, which often happens in a certain period of time, then the pulse, which was before weak and languid, and scarce perceptible, becomes more vigorous and softer—heat returns into the extreme parts—the sace contrasted and pale in common, becomes full and more red—the noise of wind is heard through the superior parts—and rumbling sounds arise in the belly—and at last, as if waking from a prosound sleep, the patients regain their voice, sense and motion, but complain of a heavy pain of the head, languor, and dullness of the whole body, legs, and feet.

Now it appears wonderful, that often in a very short time these violent symptoms, which threaten almost instant death, should intermit and cease, so that the person who the day before appeared as if dying, should now seem to enjoy persect

health.

CAUSES. From what has been above advanced, whether we advert to the nature of the fymptoms themselves, the mode of attack which in some cases is sudden, the appearances of recovery, or the state of the machine immediately afterwards, we scarce can helitate to pronounce this disease arising from strong nervous affections, owing to the great incitability (27-) of that system.

And as even those authors who attribute the cause to the womb do allow that it attacks even men, though much more rarely than women, we cannot suppose that it is to be attributed folely

to the morbid affections of the womb, though this may be one of the principal fources in the more delicate fex--we therefore conclude, that the conftitutions subject to this malady have, for the predifpoling cause, great incitability of the nervous system, either from their birth, or created by some accidental circumstances occasioned in the habit from other diseases, indiscretion, or fomething of this nature; and that, as it is united with a greater or less degree of vascular irritability, (27) in the whole, or fome peculiar part of the constitution, fo will the effect be different in different constitutions, or in the fame constitutions at different periods-and as the brain has a general communication and connection with every active part of the body, however minute, by means of the spinal marrow and nerves; and as it does act, and can be acted upon, fo as to produce general affections either from itself, or from other parts which are primarily affected—and as its connection with the vifcera is extremely great, particularly with the stomach, bowels, womb, and genitals—and it is also liable to have its powers exerted by mental affections, we conclude, that the hysteric difease may be occasioned by primary affections of the brain, and different causes existing in different parts, and have a variety of its symptoms dependent upon sympathy. (57.)

We would therefore fay, that the hysteric disease is a nervous affection, arising from too great incitability of that system, attended with different degrees of irritability of the vascular system and muscular sibres, occasioned by some things inherent in the viscera, or genitals, or from strong mental action, having for

its

CHARACTERISTIC SIGNS, a rumbling noise in the abdomen—a sense of a globe or ball rolling about there, ascending to the stomach and superior parts of the throat, and producing an affection imitative of strangulation—prosound sleep, convulsions, a profuse and copious discharge of simpid urine—and the

mind not spontaneously various and mutable.

This complaint is liable to be brought on by various causesfrom a retention or copious flux of the menses—from too great
evacuations, whether by bleeding, vomiting, purging, or abstinence—from the whites being considerable, or of too long standing-from the neglect of accustomary evacuations--sedentary '
obstructed viscera, from viscid, acid, statulent diet--from
of the stomach--from too great salaciousness, or from too
and painful mental affections.

CURE. The indications of which confist in takiconvultive and spalmodic affections, and allaying the lity and irritability of the nervous system and muscular fibres.

In order to mitigate the violence of the fit, fætid and volatile fubstances should be applied to the nose, such as tincture of afafætida, spirit of hartthorn-æther also is serviceable, and rubbing the temples and noarils with vinegar-the smoke of burning feathers applied to the nose is esteemed an efficacious remedy; for by these means women oppressed with deep sleep, and lying as if apparently dying, have recovered, and foon returned to themfelves.

In women with child being thus feized, a compression made with a roller at the lower part of the belly has afforded speedy relief -- and as patients subject to this difease are apt to be costive, glysters made of rue, wormwood, or chamomile slowers in decoction, in which is diffolved a spoonful of falt, should be given; or if there is a difficulty in passing, pure expressed oil may

be administered in the same mode.

During the fit, or on its near approach, or in the intervals, antispasmodics may be had recourse to, a variety of which have been recommended by different authors, as valerian, caftor, camphor, Spirit of vitriolic æther, afafætida, musk, animal oil, (149, 150.) and opium, (152.) these may be given in different forms, agreeable to the with, or the particular flate of the patient, in which they are to be administered -- in the fit liquid forms are only admissible - and here I must observe, that where the fætids have been inefficacious, I have found the odoriferous answer-of the strong smelling fætids, I give asafætida, (No. 68. 181.) with the valerian julep, (No. 32, 33.) or camphor, (No. 69.) of the sweets, I prefer musk, (No. 31, with 32. 34) but of these, according to the exigencies of the case, so do I proportion the dole.

But as opium is confidered one of the most powerful antispasmodics in many difeases, and acts by exerting its sedative power, it must be observed, that when the disease depends upon the fullness of the habit, and requires bleeding, opium is likely to be pernicious, by promoting accumulation in the lystem, and weakening the circulatory power of the veffels-but where there is no fullness or inflammatory state, and the disease seems to depend on irritation and increased incitability, perhaps it may be the most effectual remedy.

Notwithstanding this opinion is supported by very great authority, I cannot avoid giving, in many cases, musk the preference, particularly if there is any torpor in the valcular fystem or mufcular fibres, which we shall explain more fully when we speak on the hypochondriac disease; but then it should be ad-

mini-

ministered in tolerable large doses, from ten grains to half a dram and upwards—moderate frictions about the pit of the sto-mach, and on the feet, are beneficial-

Sydenham, who has paid great attention to this diforder, fays, that it comprehends two thirds of the chronic affections afflicting mankind, advises bleeding and purging—and this he speaks of generally; here I must beg leave to differt; for without the constitution is loaded with blood too much, they do infinite differvice—there are sew who can stand either the one or the other without manifest signs of an increase in their difference, when either are necessary, except in cases where the fullness of the vessels is very considerable, cupping and mild aperients are preferable; and, if required, they may be repeated, but with the greatest circumspection; for bleeding and purging in any other mode empties the vessels suddenly, and too copiously, weakens the system too powerfully, and universally aggravates the symptoms.

Indeed, some hysteric patients cannot bear the mildest purgatives, not even glysters, without experiencing great inconveniences, having their spirits immediately depressed upon any common evacuations downwards. I have often seen hysteric

fits fucceed after two or three loofe stools.

After the fit is got over, we must next endeavour to prevent its return, by alleviating the incitability of the system, and this is done by giving strength and simmers to the constitution, as in other nervous cases, for which many remedies have been advised, as misletoe of the oak, leaves of the orange tree, Peruvian bark, bitters, with preparations of iron, arsenic, mercury, and ammoniacal copper; of the three latter I cannot say any thing in this disease; but in very obstinate cases a trial of them has been recommended—of the two sirst, they appear not so essectional as the bark, bitters, and iron—of several which we have here set down; see the account. (400.)

With respect to the bark, a scruple or two taken night and morning has been said to produce considerable benefit; where habits were delicate and relaxed, without any fullness and in-flammatory tendency, and free from viceral obstructions, perhaps it may---but under these particular circumstances I consider it detrimental, which conclusion I draw from experi-

ence.

Preparations of iron united with bitters I have generally found most essectual---the essects of the former, and its most eligible preparations, are pointed out, (p. 228.) and the different formulæ of steel and bitters may be found, (p. 239.) and to the draught, (No. 63.) it is useful to add about thirty drops

drops of spirits of vitriolic æther—the body should be kept open by moderate doses of some aloetic pill—but in all cases it is necessary to take care that there is no sanguinary fullness or

inflammatory tendency in the habit.

Where the constitution appears to be of that nature, the full-ness should be kept under by moderate living, gentle exercise, particularly on horseback---and, as having too often recourse to bleeding is apt to occasion an increase of blood afterwards, in o'der to keep the folids and fluids in a healthful state, with respect to their influence one upon the other, setons or issues are proper-

It is also necessary to attend to the alleviation of the patient's mind, advising change of scene, cheerful company, and the avoidance of such things as raise sudden commotion of the spirits, or depression --- a clear country is highly beneficial, and all such things as assist in keeping up the proper tone of the sy-

ftem.

6 6. HYPOCHONDRIAC DISEASE-HYPOCHONDRIASIS,

from the Greek upo, sub, under, and kartilago, cartilage, from producing its effects, and exercising its violence under the cartilage called ensisormis. (39.) chiefly, and also under the lower

rib of each fide the cheft, called hypochondres.

DESCRIPTION. As in the hysteric, so in the hypochondriac disease there is no part of the body, no function, which may not be injured in this of long continuance, and be esteemed præternatural, and the symptoms so violent and so numerous, that the whole scarce comes within the power of description---hence, as tever is a disease which may be considered amongst the acute cases the most universal, so amongst the chronic may be the bypochondriasis.

In the beginning, a violent tension of the stomach and bowels are perceived, and statulent instations under the short, or spurious ribs, particularly on the left side; there are also nausea; loathing of food—and an uncertain appetite, sometimes totally gone, sometimes voracious—the food taken is digested with dissipation—four and viscid crudities are generated; an oppressive weight and pain in the stomach particularly succeeding eating; spasmodic constriction of the throat, with frequent rejection of a clear mucus from the mouth; dissipative of swallowing; heat of the stomach; sour belchings; frequent efforts to vomit, and sometimes vomiting itself, wherein materials so actid are rejected, that the teeth have had a kind of stuperfactive sensation vulgarly called "setting on edge," and with which cloths have

beer

been not unfrequently corroded; indeed, vomiting of fatty materials have been observed; besides, in the tract of the intestines, acute, pricking, or sharply darting pains are perceived about the navel; fometimes the bowels are very lax, fometimes most obstinately costive, with a retention of wind, which passes either upwards or downwards, and alleviates in a flight degree the other affections; but by and by returns with greater violence; though, on the contrary, they are oftentimes feized with frequent efforts of going to stool, and tubercles, or what are stiled in the blind piles, (400.) befet the anus, (43.) also bleeding ones fometimes fucceed --- fometimes the patients make water with difficulty and pain -- the urine ittelf thin, dilute, and pale, fometimes with a large fediment, and that gritty.

Nor is the belly the only part experiencing fevere diffress, others also suffer by consent or sympathy, (57.) --- the head is much affected, in whose external parts, those called CEPHALAL-GIA HEMICRANIA, (346.) and various dragging pains, joined with immobility, are perceived, and that known amongst medical men by the name of CLAVUS, from clavus, a nail, a fixed pain, not exceeding the breadth of one's thumb -in the interior, giddiness-ringing of the ears-with a difficulty of hearing, manifest themselves-a dimness of fight; sometimes double vision affects the patient; the eyes become painful, with dryness; and very often in a certain space a burning and very troublesome pain seizes the tongue --- and the faliva flows so very copionfly, that hypochondriacs are called SPUTATORES. (158.)

At length the animal functions begin to fail--- the mind rouzed by no cause, at least by that which is extremely slight, to inquietule, anxieties, forrow, anger, fear-becomes incompetent -inclines to vain and perverse imaginations --- the power of memory dies away, and reason fails-sleep is disturbed, turbulent, and replete with terror --- in the breaft great straitness, constrictions-violent difficulty of breathing, joined fometimes with fullness of the cheft-tremblings and palpitations of the heart

Now, from these symptoms, it appears very obvious, that this difease is a nervous affection like the former, though we confider this to be somewhat different, and to depend more upon a torpidity of the nervous fystem, than too great an incitability; and have the local incitability manifested in different parts, brought on from the continuance of the complaint.

For we must observe, in its commencement the figns of great torpor only make their appearance-besides, the disease seldom appears early in life, and more ufually in those advanced in years

only, and is apt to attack those who lead indolent and fedentary lives, are much addicted to fludy, and deep thinking, and oppressed with those particular mental affections I have called saturnine, (79.) for thefe are apt to weaken and blunt the active powers of the constitution, render the circulation and nervous influence weak and fluggish-and, indeed, some medical writers have almost wholly attributed this disease to a slate of mental affection. Besides, their symptoms in winter, autumn, or any cold wear ther, are always more violent-but, on the contrary, in warm, and in the fummer feafon, hypochondriacs are more alert and vigorous; and in women afflicted with this difease, it is always increased at the time their menses ought to flow; for they, for the most part, labour under some defect in this point-add to this, hypochondriacs can very rarely be affected with continued, epidemic, or infectious fevers-to the plague though they are liable-still remain free from many other diseases which reign at particular times ; for, from the torpid state of ther nervous fystem, the nerves become incapable of feeling the effects of the morbid particles which get into the habit, and therefore these particles are permitted to pass through the machine without creating any disturbance-the same happens to melancholic, but not to hysteric people.

cd above, too long continued watching---hard drinking---irregular diet-natural predisposition---or whatever may give rife

to nervous diforders in general in fuch constitutions.

CHARACTERISTIC SIGNS: An affection arising from too torpid a state of the nervous, and want of proper irritability of the vascular system, attended with languor, sadness, and fear from inadequate causes, affections of the bowels and stomach, and mental despondency.

CURE. Our remedies must be of two kinds, corporeal and mental; for our indications are, to remove the affections of the stomach and bowels, increase nervous incitability, and vascular irritability, and properly regulate the last, and alleviate the dif-

treis and uneafiness of the mind.

As little can be expected towards performing a radical cure, when the disease is once fixed, as it very often originates from the very formation of the constitution, and depends so much on the state of the mind, we must attend to such things as will alleviate bodily distress, so that no imperfection in any part of the machine shall contribute to increase the uneasy symptoms.

It is therefore first adviseable to unload the intestines, with a glyster, or some aloetic medicine, (No. 108.) after having pro-

cured two or three copious evacuations, then let the flomach be cleared with a vomit, (No. 11, 12.) either will answer the purpose, or white vitriol, (168.) if acidities prevail in the stomach, they should be corrected with alkaline salts, (191.) chalk, &c. (191.) (No 42, 43.) particularly calcined magnefia, or spirit of fal ammoniac with quicklime, as they unite with acid, without fermentation and creating any wind; and in this case acefcent vegetables, (190.) fhould be avoided -- though leavened bread and vinegar may be taken with animal food, as the least prejudicial; for folely it could not be perfifted in, without contributing to corrupt the state of the blood, (74.) testaceous animals, or shell-fish, (177.) are proper viands with this intent-if we want to contribute to keep the body open by absorbents, the vegetable alkali, (1911) or magnetia, must be employed-if that is unnecessary, or a check is to be given to any evacuation of the bowels by thefe means, chalk, crabs eyes, or other fimilar abforbents, (191) or the volatile alkali, (191.) must be exhibited -not any of which though mult be employed in fuch quantities as totally to deftroy the acid necessary for the composition of animal fluids for the purpose of nourithment,

In cases of costiveness, we should confine ourselves to small doses of the aloetic pill occasionally. (No. 108) such as will gently keep the body open; for these after the operation, are not apt to leave the body in a costive state—rhubarb, therefore, should be avoided, and the common saline purgatives joined with antimonials—after these things are effected, we must consider

what are likely to prevent a return of the symptoms.

Should the stomach be relaxed, as is sometimes the case, though not always, we must endeavour to give it increase of power, by invigorating and strengthening applications, as the vitriolic acid. or that of fea falt-alio tar water, fixed fal ammoniac, or water of acetated ammonia; these are said to stimulate the stomach, and often increase the appetite-in this disease the fixed ammoniacal falt has been of fingular efficacy, by the daily use of it in doles, just what would render the bowels lax-after taking it fix, eight, or twelve months, the cold bath has completed the curearomatics, as cinnamon, ginger, pepper, nutmegs, cloves, and other fubilances possessed of certain degrees of pungency; these are extremely uleful, particularly if the stomach is very torpid, or much relaxed-they fit that organ for feeling the effe ct of tonic medicines, as well as increase its temporary action-on which account, volatile falts of hartshorn, or ammonia prepared, are well calculated, and with tonics are very properly conjoined -bitters also are very useful, as quassia wood, columbo, orangepeel, gentian, chamomile, &c. and their preparations, either in infulion, 3 T

infusion, tincture, powder, or extract---but we must not persist in the use of any of these too long, lest they should hurt the tone of the stomach by their long continuance, which they art apt to do.

Bitters and astringents united are said to have more esticacy than either separately-bark, therefore, as possessing these properties, has been highly extolled; but the same caution is bere ne-

ceffary, for the fame reasons.

The best remedy for producing the defired purpose in this case, and what may be continued the longes with the greatest fafety, is iron, and its preparations -- the steel waters have been recommended, and often proved successful --- but on these Dr. Cullen makes, though a minute, a very judicious remark, and fays, though in the hypochondriac difease chalybeate waters have fometimes been apparently efficacious, he imputes it more to the amusement and exercise accompanying the drinking them at the fountain head, rather than to the tonic power of the small quantity of iron they maintain -- perhaps the elementary water favouring the excretions may have a share in alleviating the difcafe-and it is for the same reason, probably, that these people are relieved more by drinking tea and coffee than those who labour merely under indigestion, and also why the warm bath is preferred to the cold in the former case, and in the latter prohibited.

If the mind is harassed, or in pain, and slatulence, attended with head-ach, a slight opiate, joined with a cordial volatize draught, may be given, as from five to ten drops of tincture of opium, with five or fix grains of falt of hartshorn, in a little peppermint water, may be given; but opiates should be very sparingly used—in spatmodic affections they may be used also in the same manner, coupled with asascetida or musk-if the pulse should be quick, and there should be a perceptible severishness, aromatics and steel must be omitted, and exchanged for bark and the vitriolic acid.

We should be particularly careful that the patient should be thrown into such situations, as to keep his mind in a state of cheerfulness, in order to its being drawn from those unpleasant resections by which it is disturbed, particularly such as lead him to brood over what he considers an irremediable calamity, his ill state of health—lessons of philosophy and reason are of little use, if any, it is momentary; for the sirst eructation or pain, however trisling, overturns the strongest arguments that can have been advanced, and he reverts back to his usual despondency—nor can patients of this sort bear raillery, not any thing is to them so offensive, they consider it either as ignorance, or

the

the want of humanity, and will form most unconquerable dif-

likes to those who use it.

Cheerful company will be found always beneficial, and any exercife in the open air that requires dexterity, for these amule the mind-as to exercise, riding on horseback, or driving a carriage, is the most eligible; but, if it can be afforded, taking a long journey, or going from one watery place to another, claims the preference; for variety of objects are perpetually engaging the attention, few of fettled difgust are presenting themselves; and conftant exercise employs a good deal of his time, and steals him as it were from himfelf; and by these means he will lead at least a life of comfortable satisfaction, fancying the whole good he has derived from change of air, which will encourage him in the purfuit; in fine, whatever is directed to him should be capable of furnishing amusement, and never carried to excels; for fatigue of every fort is extremely detrimental--his diet should be light, fit easy on the stomach, agreeable to the palate, cordial, nourithing, and eafy of digeftion --- animal food is in general the most proper -- and his drink should be spirits, which he likes best, lowered with water.

I have, in the course of practice, met with some cases extremely perplexing, where tymptoms declaratory of both hysteric and hypochondriac affections manifested themselves---hence I have

ventured to call it the

§ 7. HYSTERIA-HYPOCHONDRIAC DISEASE,

as participating both of one and the other, which, as it has oc-

curred to me, I shall take the liberty to describe.

DESCRIPTION. In this complaint patients chiefly complain of heavy, uneafy pains in the head, sometimes fugitive and acute-a dimness of fight; but this temporary, a sense of Arangulation, ringing in the ears, and quickness of hearing .-fudden starting at any slight noise, on the opening of a door quickly, or any thing falling in the room-fometimes they have complained of a coldness of the head, particularly the back part, as if water was trickling down it-flatulence of the stomach and bowels--fometimes they are costive, now and then otherwise--urine is made frequently, in small quantity, then becomes turpid; at other times more copious, and of an amber colour, feldom or never purely limpid --- they oftentimes complain of an itching, tingling, or pricking in the skin, especially if a gentle fweat is promoted --- fometimes an eruption like the nettle-rash shews itself -- frequently a general tumefaction, of a puffy aspect, without any spots -- at others very small vesicular eruptions at the tips

tips of the fingers; and all these external appearances are, for the most part, attended with great heat, itching, or a sense of pricking---the appetite is very irregular--the mind easily disturbed, and generally brooding over some personal calamity, chiefly imaginary—the circulation sluggish and languid--the pulse slow--and the extremities, for the most part, cold.

CAUSES. These appearances I always suspect from some acrimony substituting in the sluids, and thus far practice has confirmed my opinion, enables me to reason on these appearan-

ces, and reconcile them to the doctrines laid down-

For the incitability of the nervous fystem seems to have been kept by the stimulus of the acrimonious humours, which was not sufficiently powerful to increase properly the action of the vascular system—hence the internal parts would be loaded, and the acrid particles have a power of exerting their stimulus in proportion to the quantity retained—besides, from the torpid state of the circulation, the acrimony would be greatly increased by the retention of such materials as should naturally have been thrown out of the habit; and this I am warranted to affert from what occurred on any eruption appearing on the skin, or hot tumefaction of the extremities, or by gentle sweat being promoted; for at that time the patients were more considerably relieved.

CHARACTERISTIC SIGNS. Quick nervous incitability, united with strong mental prepossession, and persuasion, of the patient's own misery, and fatality of their situation, with tor-

por of the vaicular fyftem-

cure more equable, and take off the valcular torpidity; and these are chiefly accomplished by cordials, aromatics, and flimulating antispasmodics, by promoting a determination of the

fluids to the furface.

But, notwithstanding gentle perspiration is not singularly useful, for this purpose antimonials must not be exhibited, nor must opiates for alleviating spasmodic affections, for they very often do infinite mischief, by relaxing the stomach, and increasing the torpor of the system—stimulants are better, and still more the stimulating antispasmodics; such as volatile alkali, afafectida, musk, given occasionally, and the volatile saline mixture intermediately, joined with cordials, instead of the Polychrest salt, (No. 126.)—(of these see the different formulæ, from page 231 to 235.)—and I have often found the spirit of vitriolic æther and camphor answer every good purpose we could expect from opium, without producing its disagreeable consequences—the warm bath in these cases is beneficial.

Though

Though it is necessary to have the body kept open, strong purging always does harm-occasionally the aloetic pill, (No. 108.) with or without the calomel, may be given-and as for bleeding, we should rarely, if ever, have recourse to it-if it is ever thought necessary, cupping is the best mode-perhaps topical bleeding with leeches may now and then be uteful in fixed local complaints of the head, or other parts where fevere pain gives much uneafinefs; but, in order to keep off an increase of blood, I should recommend setons or issues-riding on horseback, and that constantly persevered in, is amongst the most certain remedies -- and bitters, with preparations of iron, or in fome cases without them, generally must close the cure--- the Bath waters are extremely uleful -- and, when patients have recovered ftrength to bear the cold bath, that may be had recourse to: but care must be taken to proportion the coldness of the water to the power of the constitution, for baths too cold are highly injurious --- indeed in our medical conduct great nicety is required in these complicated cases, in which we must obferve, that the remedies recommended in the hysteric and hypochondriac disease must be selected, as the complaint verges more to one than the other---upon the whole, I found antispasmodics and stimulants to be the most efficacious auxiliaries; the former when hyfteric, the latter when hypochondriac fymptoms were the most predominant; in which last they may be freely used; for it is astonishing in how large doses stimulants may be given without injury, and how very necessary they are to produce any good effect.

§ 8. INDIGESTION, CALLED DYSPERSIA,

from the Greek words dys, difficulter, and pepsis, concoctio, digestion....If we consider what has been said of the stomach, and its nature, (39, &c.) it will obviously appear, that it is liable to a variety of complaints, such as inslammation, abscess, ulcer, scirrhosity of the lower orifice of the stomach, and a variety of others...indigestion is then said only to be considered as a symptom...indeed, it may always properly be considered in this light; for where there is a defect in any of the digestive powers, (see page 72.) this complaint occurs...and if we consider what has been advanced, when speaking of pains of the stomach, the hysteric, and hypochondriac disease, we may form a tolerable certain opinion of its cause, which generally proceeds from a WEAKNESS AND RELAXATION OF THE STOMACH AND BOWELS, and which cause we must consider in this place.

DESCRIP-

DESCRIPTION. Under this circumstance, there is a want of appetite--nausea--vomiting flatulent distension of the stomach, with eructations either sour, rancid, or some other, argreeable to the nature of the impersectly digested, or indigestible materials contained in the stomach--cardialgia, or heartburn, (352.)--pain also in the stomach, attended, for the most part, with a costive habit--this disease will also very often produce the sick head-ach, as proved by experience. Dr. Fother-Gill says, "from numerous circumstances it is most clear, that this head-ach proceeds from the stomach, not the reverse, as has been the opinion of those who have been sufferers by it."

CAUSES. The remote or inducing are, too frequent overloading the stomach---living upon leguminous and statulent diet ---fedentary life---too violent evacuations, particularly of blood ----taking too frequently strong purging medicines; dysentery; miscarriages; intermittents; and spasmodic affections of the stomach and bowels. The proximate or immediate have been specified above.

CURE. The indications are, to invigorate the tone of the stomach, and, where wanting, to increase the heat—the mode of doing which have, in a great measure, been set down when treating of pain of the stomach from indigestion, (352, &c.) and the hypochondriac disease, (512 &c.) to which we shall only beg leave to add, that cold liquids should be drank in preference to those which are warm, without actual warmth is necessary on account of the too great coldness of the stomach, and then, instead of tea and cossee, insusion of rose leaves, sage, rosemary, or mint, may be used—and the preference should be given to the cold bath.

If meat cannot be contained on the stomach, as will sometimes be the case, cupping-glasses may be applied about two inches below the stomach, stimulating cataplasms, or plaisters, applied at the pit of the stomach—generous, rough wine should be drank cold.

The mode of living should be carefully attended to, else all means will prove inessectual—all oily substances, butter, therefore, fat meats, and meat pies, all unfermented farinaceous food, malt liquors, particularly ale and porter, watery and vapid fruits, and raw vegetables, should be avoided—chewing tobacco, or any thing which promotes too much the discharge of saliva—frequent inebriation are extremely pernicious, as also excess of venery, indolence, mental uneasiness, or too close application to intente study or business—nor should any excess be committed in eating, though the food should be of the easily digestible kind.

kind, of which to the animal class patients should chiefly adhere —cold, moist air, without exercise, is detrimental; but cold air with it is beneficial—food should be often taken, and in small quantities; but if patients will not adhere to this rule, they should be confined to one kind for several days; and if vegetables must be indulged in, those which are the most tender, and

stewed in their own juices, are the most proper.

If we now consider the effects produced in the habit by this complaint, we shall see that a vast variety of chronic diseases owe to it their origin, and, therefore, on its very first appearance it should be carefully attended to; for, if it is suffered to continue long, it is very rarely radically cured—and, indeed, I am persuaded that a great number of those complaints which affect children born of healthful parents, in their infantile state, are produced from the same source, occasioned too often by the indulgence of over-fond mothers, or the ignorance or indolence of nurses, all which I think may be prevented by adhering to the rules laid down when treating of nursing. With regard to their cure, similar modes must be pursued as we have laid down in the disease just treated, appropriating the remedies to the circumstances of the case, and the delicacy of the frames with which we have to deal.

♦ 9. RICKETS—RACHITIS.

This English name seems to be a corruption of the word RACHITIS, probably from a supposition that this complaint derived its origin from some affection of the spine, as the Greek word raxis, from whence rachitis is derived, means spine.

Most physicians agree that it very feldom, or never, attacks before the ninth month after birth, and feldom comes on after

two, fome fay fix, years.

DESCRIPTION. In the beginning, the proportion of many parts of the body is irregular-the skin loose, the belly thin, and as if turgid with wind-the muscular slesh wastes away, but the hands, wrists, arms, knees, and feet grow large-the bones afford but weak support to the belly, and are often accompanied with crookedness of the spine, from whence all their bodily actions and mode of moving on the ground are weak, which often terminates in weakness, unwillingness, and dislike of motion—these children sit sluggishly in the arms of their nurses, and feel heavy-at that time the arteries running up the neck appear sull—the head is large, and nods from one side to the other, owing to the incapability of the neck sustaining it erect, from the flaccidity of that, part their dispositions are acute beyond

their age, but the breast is narrow, and, as it were, compressed from its sides with the sternum acuminated, and the extremities

of the ribs knotty.

As the malady increases, a flow fever comes on, with a cough, difficulty of breathing, and other fymptoms, which, for the most part, continue till death closes the scene---but this is not always the cafe --- a number of these fymptoms we have had instances of continuing for a long feries of time, still afterwards the disease ceases to advance, and health is restored, except some differtions of the limbs may remain. We should have observed, that the opening at the top of the head, called fontanelle, and the parts where the bones join, named futures keep longer open, and in a greater degree, than others in an healthful state; and the forehead is apt to protuberate in an uncommon manner .-- the children get their teeth flower, and much later than usual, and those which appear foon become black, grow loofe, and often fall out-the defire for food, and the appetite itself, is often quick and good; but there is frequently a loofeness, or a strong propensity to it-and though sometimes the disposition is acute, we have said, now and then the faculties of the mind are impaired, and dullness and stupie dity are prevalent.

These symptoms do not all of them prevail in every patient, but more or less of them according to the degrees of mildness or violence of the disease; in some those which are more more derate, in others those which are more severe, make their ap-

pearance.

On opening those who have died of this complaint, in some the liver has been preternaturally large, scirchous, and adhering to the midriff—the mesentery beset with indurated glands, and obstructed with the sweathread—in others, the lungs united to the pleura, or back, and they either livid, or loaded with abscesses, called vomice—in some the perieardium, the membrane surrounding the heart, surcharged with serum—but in common the brain has been found slaceid, replete in its ventricles with a thin watery suid, and the suids themselves through the machine in a dissolved state; the muscular parts preternaturally soft and tender, and the bones capable of being cut with a knife, particularly near the places of their union.

CAUSES. The remote or inducing are, bad nursing---suck-ling children too long---an acid produced from the milk with
which the child is fed for the first nine months, or feeding it
on unfermented ferinaceous substances, and indulging too much
in their use, particularly such aliments as possess too firm a texture, are too viscid and sour, as bread not well fermented, cheese

cheele

cheefe-cakes, garden fruits---giving children four wine---living in bad air, or low marshy places---opiates too frequently and freely given—want of proper exercise—the habit weakened by preceding diseases—a diseased nurse---and external violence-

The proximate or immediate, a torpid state of the circulatory fystem, and general flaccidity or relaxation of the solids preternaturally increased, by which the organs of digestion, assimilation, and nutrition, are desective in their power, and bring on a thin state of shuids, and want of that matter in them which form the bones called offisic-

CHARACTERISTIC SIGNS. A large head, fwelling greatly on the fore part—tumefied knees and wrifts, depressed

ribs, diffended belly, the rest of the body wasting away.

CURE. The indications are, to increase the tone of the stomach, improve the digestive powers, and invigorate the system.

In the first place, however, some of the symptoms are to be alleviated, as the stomach and bowels are apt to be soul, at the same time the latter distended with wind; they should be emptied by gentle vomits and mild purgatives—small doses of ipecacuanha, or of tartarized antimony, should be given for the first intent; and for the other, rhubarb and calomel, or Polychrest salt; rhubarb is the most eligible, as it is both bitter and astringent, therefore a good stimulant and tonic—the vomit may now and then be repeated, as it will, by the shocks it gives to the bowels and the other viscera of the belly, assist in taking off, or preventing the obstruction and enlargement that often occur in them.

The belly also may be rubbed with stimulant liniments, as volatile liniment, or No. 182. which has been flrongly recommended-indeed, any of the joints which are swelled may be rubbed with this twice a day-and, perhaps, it will be more efficacious if it is applied after friction of the parts with a flannel before the fire-fcate oil has also for this purpose been much extolled, which is used by the inhabitants of the western parts of Scotland in the following manner: -first, the wrists and ankles are rubbed well with oil in the evening, this immediately raifes febrile affections for feveral hours; when the fever subfides, the fame parts are rubbed again the night following, and repeated as long as the rubbing excites fimilar effects--when, by rubbing these parts alone, not any febrile affections can be excited, the fame process is performed, and continued in the same manner on the knees and elbows -- then afterwards down the back bones, and on the fides -- and when no fever is raifed by this operation, a flannel shirt dipped into the oil is put upon the patient's body,

by which more violent febrile affections are raised than any of the former unctions, and is continued till the cure is completed,

which commonly happens in a fhort time.

The chief tonics employed in these cases are bark and steelof the former, from the nauseousness of the taste, it is scarce possible to get down a sufficient quantity to render it essectualhowever, it may be applied externally to the wrists, by forming the extract into plaister, or quilting the powder in soft linen, (260.) applied in these modes I have been informed that it
has proved essectual; but I should prefer its being brought into
contact with the coats of the stomach immediately, as on that, it

appears to me, depends its greatest efficacy.

Steel, as a preventive, has had its warm advocates, who, in order to be able to distinguish whether a child will become ricketty, point out the following symptoms:—a paleness and swelling of the countenance, and in that part of the cheeks, which should be naturally red, a yellow colour approaching to that of sulphur; in which case, sive grains of the filings of iron, and as much rhubarb, with ten grains of sugar, should be given every morning fasting and evening—but should this prove too purgative at sirst, one dose should only be given every day—after a month's continuance, a keen appetite ensues, quick digestion, and a copious flow of urine—the fullness of the face, and yellowness of the complexion, by degrees are removed, and natural countenance and sirmness of the body gradually restored—and this practice, it is said, has never failed of success in any one in-stance.

Five grains of ammoniacal iron may be given twice a day for a month, or longer, interpoling occasionally aperient doses of rhubarb; but, in cases of severish disposition, bark, with the vi-

triolic acid, is more eligible.

In cases of rickets, prepared kali, (177.) half a dram dissolved in eight ounces of bark decoction, sour ounces taken every day cured a boy of seven years old, who has so much afflicted, that his inferior extremities had become stiff and immoveable—the body slaccid, he was much worn away by a looseness and constant sweatings, and had sive sistulous ulcers all discharging at the same time—in the course of one month from beginning to take the medicines he rose from his bed, and walked with some support—the bark was then changed to madder, and in less than four months he walked with a crutch, and by that time the ulcers were nearly healed—the watery solutions of kali have in many ricketty people been successful.

Strong beer, porter, and wine have been recommended; but I should rather think them pernicious, the two former from

their viscidity, and the latter from its proneness to become a-

But the remedy most to be depended upon is cold bathing, or bathing in the sea, and is certainly the most powerful preventive. In Scotland it has long been the practice with people of all ranks to wash their children from the time of their birth with cold water; and, from the time that they are a month old, the superior class dip them entirely in cold water every morning—and, where this practice has been pursued, Dr. Cullen asserts, that he never met with any instance of rickets—among the common people, though they wash their children with cold water, they do not so commonly practice immersion; and when amongst these he meets with cases of rickets, he prescribes cold bathing, which has accordingly checked the progress of the disease, and seems

fometimes entirely to have cured it.

With respect to diet, strong objections have by some been started to milk, and where nurses are apt to give large quantities of a thin watery kind, it may certainly be detrimental, because it will weaken and relax the stomach, fill it and the bowels with sour humours, and also the machine with too great a load of watery, ill-digested sluids, and hence savour the coming on of the rickets; but where the milk is of proper consistence, and does not appear to disagree, it may be persisted in—chicken or thin veal broth, beef-tea with rice, or rice with cow's milk, properly thinned, may be occasionally given—and leavened bread is preserable to the unfermented farinaceous substances, of which thin panada may be made, and now and then mixed with small portions of aromatic species.

Testaceous powders, crabs eyes, &c. (191.) may be given by themselves, or mixed with the food, as they are tasteless; for of

these we have accounts of their utility,

Exercise in these cases is essentially necessary; but it should be of the gentler fort, and in an horizontal position, lest, by being kept upright, some distortion should take place—here cradles may be of use, or mattresses laid upon swings, and judiciously contrived to secure the little infant from falling out, which should be fixed in the open air, in some shady place, protected from the too powerful force of the sun—nurses should avoid carrying children in this disease always in one arm, (126.) nor should they hoist, or toss them up much, for the breast may by these means be greatly injured, by the pressure of the thumb and finger on each side the breast bone, from indentation or bending of the ribs inwards.

And with respect to situation, as it has been observed, that people who live in damp moist places, where the air in common abounds



fluid-this pain is confidered a primary invariable mark of a be-

ginning hydrophobia.

CAUSE of the first species, with which we oftenest meet, is the virus of the mad animal absorbed into the habit affecting immediately the nervous system—which virus may lurk inactive in the constitution for fourteen, twenty-one or forty days, within which time it begins to exert its influence; and it is observed to do that the sooner, in proportion as the bite is nearer to the glands, (24.) of the upper part of the throat and mouth, called salival.

CURE. The indications are, to endeavour to take off the fpasmodic symptoms, as in tetanus, (415.) and throw the offend-

ing poison out of the habit.

For which purposes we apply and depend upon large doses of opium given every three or four hours—musk also may be given liberally---plaisters of opium applied to the throat, and linaments of tincture of opium and camphor—sponges dipt in hot vinegar should be put to the mouth and nostrils, that the fauces may be kept perpetually moistened by its steams,—nor

should the use of the warm bath be omitted.

Towards the close of the cure, opium may be advantageously joined with cinnibar, musk, camphor, and asatætida—opiate glysters should frequently be thrown into the intestines; in fine, it should be applied to every place, and by every means, as expeditiously as possible, in hopes of allaying the violence of that highly increased degree of nervous incitability and muscular sensation—and, in order to procure an expulsion of the poison out of the habit, mercurial ointment rubbed into the machine, that a salivation may be raised as soon as possible, and this continued for two or three weeks.

OIL has lately been recommended in this complaint, thrown into the habit by means of external frictions all over the body, thrown into the intestines by way of glyster, and given by the mouth, when patients can be prevailed upon to conform to the mode—One case has lately occurred, where there was every reason to conclude that the patient was preserved by this method—sea and cold bathing, with the pulvis antilyssus, (101.) have been greatly recommended in this disease, which have pro-

ved insufficient.

Indeed, cold bathing appears to me, if not a dangerous, a doubtful experiment, and depends upon conflitutional circumfrances folely for its utility, if it has any; for without perspiration can be increased by its use, it certainly bids fair to confirm, rather than remove, the malady, by forcing the sluids too much upon the internal parts of the system, in which case,

should

force more than adequate to the impulsive power, the poison would be more riveted on the nervous system, and humourous and sanguinary congestions be added to the nervous affections—indeed, Celsus himself seems to have been aware of this, or some other inconvenience, arising from the use of the cold bath; for he advises, as soon as the patient comes out, to be plunged into warm oil, and drink of generous wine, evidently to solicit and increase the motion of the sluids towards the external parts—in these cases, therefore, the warm bath and frictions appear to be the most proper auxiliaries to the other remedies.

This difease is sometimes succeeded by inflammatory symp-

toms, in which cafe we may have recourse to bleeding.

After patients have gone through the proper course of the remedies herein advised, sufficient to remove the cause, then cold or sea bathing, adapted to the powers of the constitution, with the use of tonics and stimulants, may doubtless have its use, in order to give strength and vigour to the system, necessa-

rily debilitated by evacuants and fedatives.

The fecond species arises without any contagion being communicated, in some severs—from some preceding diseases—from
the accession of an epilepsy—from the bite of an epileptic patient—by the bite from people in violent sits of rage, &c. according to the accounts of different authors—indeed an inferior
degree of it will be observable in some hysteric cases, where,
from the difficulty of swallowing, patients are extremely searful of taking liquids, nay, they cannot sometimes be prevailed
upon to make the attempt.

In all which cases musk and opium appear to be the remedies

most rational, and productive of the greatest efficacy.

When it arises from the bite of a mad animal, the preventive method laid down, (102.) should be strictly observed, which appears to be the best calculated to obviate the most dangerous, and too often fatal effects of this destructive malady—and with CHARACTERISTIC SIGNS of which it may be useful to close the account; these are, a very high degree of nervous incitability, or super-sensation, attended with a loathing, or dread of any liquid, from the dissiculty of swallowing, creating a painful spasmodic affection of the throat, for the most part occasioned by the bite of a mad animal, and sometimes, though less frequently, from other accidental or inherent causes.

FORMS OF MEDICINE.

No. 140. CINNABAR ELECTUARY.

Take Bark,
Valerian in powder,
Cinnabar of Antimony,

I an ounce,

Syrup of Saffron, sufficient to form an electuary.

Dose. Two drams.

141. AMMONIACAL MIXTURE.

Take of Milk of Ammoniacum, 3 ounces:

Pennyroyal water, 6 ounces-Antimonial Wine, 40 drops.

Oxymel of Squills,

Compound Spirit of Lavender,

And drops.

40 drops.

½ an ounce.

3 drams.

Mix .-- Dose. One ounce or one ounce and a half.

142. STIMULANT APERIENT PILLS.

Take Extract of Bitter apple

Aloes,

Flowers of Benzamin,

Salt of Amber,

Myrrh, Caftor,

Calomel prepared,

Camphor,

Salt of Hartshorn,

Balfam of Peru, fufficient to form Pills.

DOSE. One dram.

143. AMMONIACAL MIXTURE.

Take Acetated Ammonia, 2 ounces.
Peppermint Water, 5 ounces.

n which diffolye

Gum Ammoniacum, 1 dram.
hen add Simple Oxymel 6 drams

Aix.

No. 144. STIMULATING TONIC MIXTURE.

Take Decoction of Bark,

Camphorated Tincture of Opium, \(\frac{1}{2}\) an ounce,
Tincture of Spanish Flies, \(\frac{1}{2}\) and \(\frac{1}{2}\)

Tixonna

of each 20 grains.

of each 30 grains.

of each 10 grains

No. 145. FOETID ATTENUANT MIXTURE ..

Take Gum ammoniac,

Afafætida,

Pennyroyal Water, Syrup of Garlic,

of each 1 drams 7 ounces. I an ounce.

Mix .-- Dose. Two or three spoonfuls.

146. PURGING MIXTURE.

Take Infusion of Senna,

Tincture of Aloes, ____of Jalap,

Aromatic Tincture,

Dose. One ounce and a half-

6 ounces.

6 drams-

3 drams. 1 drams.

147. COOLING PURGING DRAUGHT.

Take Warm Water,

Acetated Kali,

Honey,

1 I-2 ounce.

I I-2 dram

2 drams.

Mix .--- Given two or three times a day.

or--- 148.

Take Common Mint Water, 1 1-2 ounce

Tartarized Kali,

Syrup of Rofes,

3 to 4 drams.

1-2 an ounce.

Compound Spirit of Lavender, 1 dram. Mix .-- To be given in the morning.

149. DANDELION DRAUGHT.

Take of the Leaves, Stalks, and Roots of Dandelion, well washed and > I handful.

bruifed.

I-2 an ounce. Raifins,

Let these be boiled in one pint to half a pint of water, let it stand till cold, then strain off the clear liquor, in two ounces of which dissolve Acetated Kali, 1-2 a dram-

and add Tincture of Senna,

1-2 an ounce or 6 drams

Compound Spirit of Lavender. 1 drams.

Mix .---

No. 150. SAPONACEOUS PILLS.

Take Venice Soap,

2 drams.

Rhubarb,

1 dram.

Syrup of Saffron, fufficient to form thirty-fix-Pills.

Dose. Four-

151. SEROUS PURGATIVE POWDER.

Tak

Take jalep in powder, Purified Nitre,

from 20 to 30 grains.

Mix .-

Or---152.

Take Gamboge, Crystals of Tartar, from 12 to 20 grains. 1.2 a dram.

Mix.--

153. DIURETIC ELECTUARY.

Take of the Rust of Iron prepared, from 2 drams to 1-2

Powdered Squills, I dram. I I-2 drams. Aromatic Powder, Conferve of Roman Wormwood, I 1-2 ounce. Syrup of Garlic, fufficient to form an Electuary.

Dose. Quantity of a Nutmeg twice or thrice a day, with the

following Draught:

154. DIURETIC DRAUGHT.

Take of Diuretie Salt. Distilled Water, Horseradish Water,

from 1-2 to 1 1-2 dram. I 1-2 ounce. 2 drams-

Mix .---

155. DEOBSTRUENT PILLS.

Take Extract of Black Hellebore, 7 of each 2 drams. Myrrh Diffolved, Powder of the Holy Thiftle, 10 fcruples.

Mix these well together, and let the mass be exposed to the dry air, until it is proper to form into pills, a grain and a half into a pill. These pills have been given to the number of twenty or thirty to a dofe, dividing them into three equal portions, one portion to be given every hour-

156. MEDICATED WINE OR BEER.

Take of Gentian.

Lemon Peel,

Mint,

Juniper Berries,

Cinnamon, Ruft of Iron, 1 ounce.

Infuse these in a Gallon of Wine, or Ale, for fourteen days. Dose. Of the Ale half a pint, of the wine three or four ounces. 157. STIMULATING TONIC ELECTUARY.

Take of the Root of Wake Robin, fresh gathered, and well bruifed, of each 1-2 an ounce.

Gum Arabic in powder, Bark,

of each 4 ounces.

5 or 6 drams.

Syrup

Syrup of Saffron, fufficient to form an Electuary.

Dose. The quantity of a Nutmeg---or the ingredients may be tormed into powder or pills, and taken in that manner, properly proportioning the dose of Wake Robin in powder of the dried root, that is, from five to ten grains at a dose.

158. CAMPHORATED BOLUS.

Take of Mithridate, or Venice Treacle.

Venice Treacle, } 20 grains.

Syrup of Saffron, fufficient to form a bolus-159. Decoction of WATER-DOCK.

Take of the Bark of the Root of Wa- } 1-2 a pound-

Boil this in fix pints of river or rain water to four, in which diffolve two drams of Crystals of Tartar, and let half a pint be taken three or four times a day.

160. KALI DRAUGHT.

Take of Kali prepared,

Distilled Water, Syrup of Sugar, 15 grains.

I dram.

Let this be drank, and immediately afterwards let dilute vitriolic Acid, as much as will neutralize the Alkali, be taken in half an ounce of distilled Water.

161. WORT.

Take of Malt fresh ground,

Infuse it in three pints of boiling Water, let it stand for four hours and then pour off the clear liquor for use.

Dose. From two to sour pints in a day.

Take of the Expressed Juice of Hemlock, 4 ounces.

Gum Ammoniacum, 8 ounces.

Vinegar of Squills, fusicient to dissolve the Gums-4
Add the Juice to this folution, strain the mixture, and boil it to
the consistence of a plaister.

Take of Lime Water, hot, I 1-2 pint.

Peruvian Bark in powder, 1 1-2 ounce. Let it stand for eight or ten days, then pour off the clear liquor. Dose. From two to four spoonfuls twice a day.

164. SEDATIVE INJECTION.

Take Rose Water, 6 ounces.

Tincture of Opium, 2 or 3 drams.

165. RESTRINGENT INJECTING

Take Infusion of Rose Leaves, without } 5 ounces.
the Vitriolic Acid,
White Vitrol,
Acetated Ceruss,
8 grains.

Mix .-

166. CALOMEL INJECTION.

Take Infusion of Roses, as above, or Decoction of Bark,

Calomel prepared,

2 ounces.

Mix .--

167. MERCURIAL OINTMENT-

Take Hog's Lard,

Quickfilver,

Rub them together in a marble mortar, till no globule of the

Quickfilver appears.

168. CORROSIVE SUBLIMATE SOLUTION.

Take of Water,

Brandy, or

Any kind of Ardent Spirit,

Corrofive Sublimate,

10 grains.

Dose. Half an ounce.

Take Corrofive Sublimate, 15 grains.

Diffolve them in

Distilled Water, 6 drams.

To this liquor add

Crumbs of white Bread, 2 1-2 drams.

and make 120 Pills.

Dose. Two, night and morning, which may be gradually increased to four, if the stomach will bear them.

Take purified Quickfilver, I dram.

Gum Arabic, 3 drams

Syrup of Rhubarb, a fufficient quantity.

These are to be rubbed together in a glass, or marble mortar, gradually adding a little Syrup at a time, until the whole of the Quicksilver runs into a mucus; then, in the same gradual manner, add Rose Water,

12 ounces.

Dose. One ounce night and morning.

171. MERCURIAL GUMMOUS PILL,

Take the Mercurial Mucus above described, and add to it Crumbs of Bread, 1-2 an ounce.

Make these into pills of fix grains each.

Dose. Five night and morning.

No 172

No. 172. MERCURIAL SYRUP.

Take Mercurial Mucus above described, formed with Syrup of Roses instead of that of Rhubarb, and gradually add to it of

the same Syrup four ounces and a half.

Dose. A tea-spoonful morning and evening; but let the spoon be of Wood, Mother of Pearl, or China—and the dole may be gradually increased.

173, MEZEREON DECOCTION.

Take of the Bark of the Mezereonroot, fresh gathered,
Distilled Water,

12 pints-

Boil these together to eight pints, and, towards the close, add

Liquorice Root bruifed, 1 ounce.

Dose. Half a pint twice a day.

174. SULPHUR OINTMENT.

Take Flower of Sulphur,

Fixed Ammonia Salt,

Hog's Lard,

1 ounce.

2 ounces.

Mix.—A fourth of this to be well rubbed only on a fourth part of the body every evening.

175. MERCURIAL LOTION.

Take of Muriated Quickfilver, 1 dram.

Rock Alum, 2 drams.

Purified Nitre, 1-2 an ounce.

Lime Water, 1-2 a pint.

Mix .-

176 MERCURIAL OINTMENT.

Take Muriated Quickfilver, 10 grains.

White precipitated Quickfilver, 1 dram.

Simple Ointment, 1 1-2 ounce.

Oil of Lavender, 2 few drops.

Mix,-

177. MERCURIAL GIRDLE.

Take of purified Quickfilver, 3 drams-Let these be well shook with

til all the globules shall cease to appear, then pour off the liquor, and to the killed Quicksilver, (so called) let there be added half the Yolk of an Egg, and one scruple of Gum Tragacanth very finely powdered. This composition must be spread upon a stannel roller, about the breadth of three singers, and sufficients.

ently

ently long to form a girdle to encircle the waift, which must be there worn.

178. DECOCTION OF THE INTERIOR BARK OF THE ELM

Take the interior Bark of the Elm Tree, 4 ounces.

Distilled Water, 4 pints.

Let these be boiled to two pints, and then strained.

Dose. Half a pint twice a day.

17.9. BARK AMD SASSAFRAS ELECTUARY.

Take Peruvian Bark, very finely pow- } 1 1-2 ouncedered,
Powder of Sassafras Bark, 1-2 an ounce.
Syrup of Sugar, sufficient to form an Electuary.

Dose. Quantity of a large Nutmeg twice a day.

180. STIMULANT LOTION.

Take British Spirits, 8 ounces.

Ley of Tartar, 1 ounce.

Spirit of Sal Ammoniac, 2 drams.

Mix .-

181. VOLATILE FOETID MIXTURE.

Take Asafœtida, 1 dram.

Liquor of Hartshorn, 2 drams.

Pennyroyal Water, 2 ounces.

Syrup of Saffron, 2 drams.

Mix. - Dose. One or two tea-spoonfuls occasionally.

182. LINIMENT AGAINST RICKETS.

Take Palm Oil,

Balfam of Peru,

Spirit of Sal Ammoniac,

Oil of Nutmeg expressed,

—Cloves,

—Amber,

Of each 2 drams.

1 dram.

of each 20 drops.

Mix.-

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