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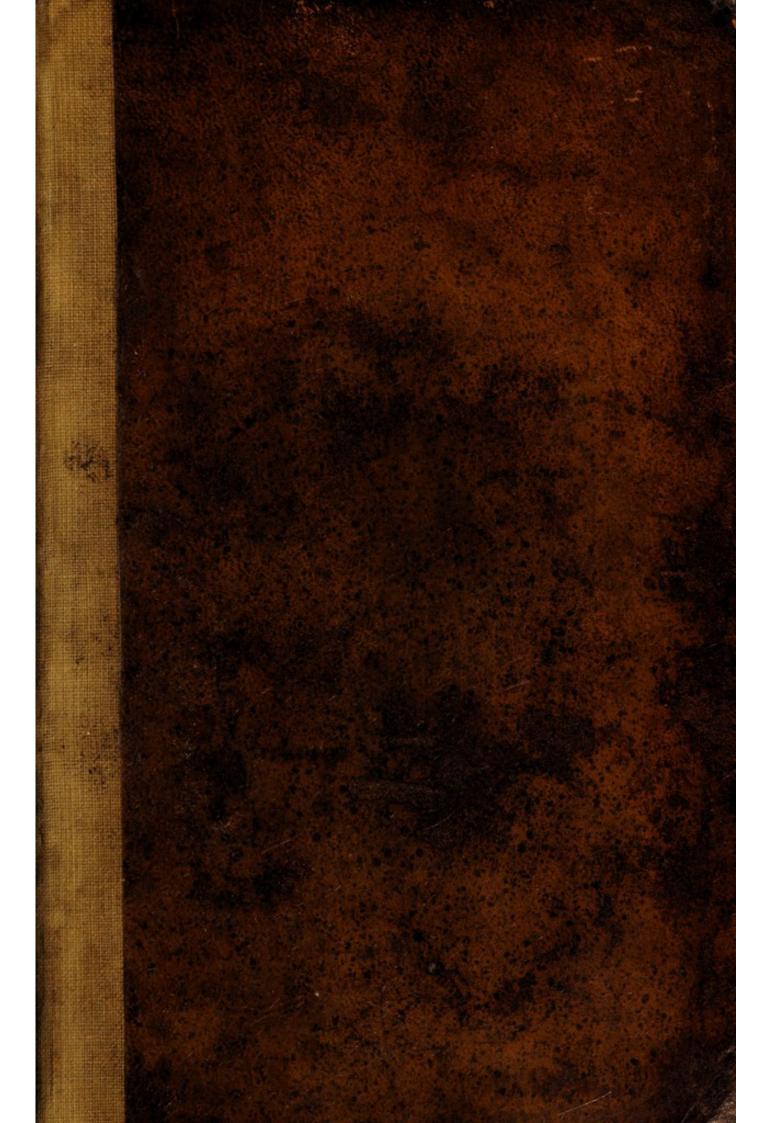
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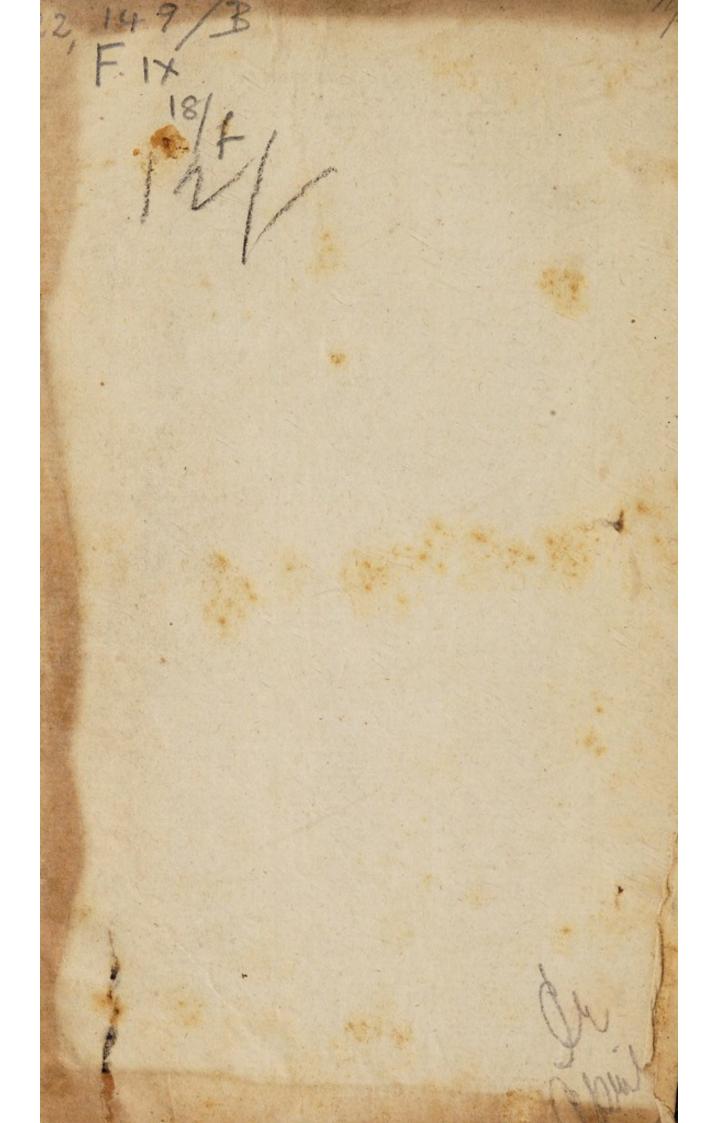
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TREATISE

ON THE

VENEREAL DISEASE.

IN THREE PARTS.

I. AN ANATOMICAL AND PHYSIOLOGICAL DESCRIPTION.
OF THE GENITAL PARTS OF BOTH SEXES.

II. AN ÆTIOLOGICAL ENQUERY INTO THE VARIOUS STAGES OF THE VENEREAL DISEASE.

III. A TRUE AND RATIONAL METHOD OF CURE.

ILLUSTRATED WITH COPPER-PLATES.

By N. D. FALCK, M. D. THE SECOND EDITION.



LONDON:

PRINTED FOR B. LAW, S. CROWDER, E. AND C. DILLY,
R. BALDWIN, G. ROBINSON, AND T. EVANS
IN THE STRAND. M DCC LXXIV.



PREFACE

TO THE

FIRST EDITION.

WHAT I here offer, is an unprejudiced theory, confirmed by happy fuccess in practice; and this I think must ever be the most effectual method to arrive at truth.

I am sensible of the force of prejudice; and likewise of the many difficulties attending an attempt to eradicate long established errors, especially when supported by men of fame: Yet I have ventured on the task; and in obedience to duty and truth, have pointed out many absurdities, which must appear to the conviction of every candid and judicious reader,

But it is of little benefit to mankind to point out their faults, without endeavouring to amend them; this has been the principal object in view: And if speaking what we think strictly true in our own behalf, is not a breach of modesty, I simply believe, that this treatise will, if attended to, contribute more to the welfare of my fellow

creatures,

creatures, than any book whatever that I

have feen on the fubject.

I have consulted various authors on venereal diseases, and I own myself greatly indebted to them; their truths, as well as their errors, have afforded me benefit. Many I believe have written according to the dictates of their judgments; and every man who does so, I esteem, though we should differ ever so widely in opinion: If others have not been so candid, perhaps an insatiable thirst for same was the cause; a weakness which has made many men, even of great parts, appear very ridiculous; and often proved the very means of losing, what they were so eagerly in pursuit of.

Be this as it may, I have aimed at truth and utility; if I have deviated from these, it was not designedly; and I shall always be equally ardent to listen to truth, as I

wish to point it out to others.

The method I have pursued throughout this treatise, is materially different from any other of the kind that I know of; but this method I thought requisite, in order to display my principles on the subject, which differed so widely from the doctrine commonly practised. But besides all this, I supposed it would be more agreeable to the generality of readers; for though the whole

is in a chain, yet there are fuch feparations, as do not compel the reader to a perusal of more than what fuits his inclination; particularly those who would fain think I have faid more than what relates to the fubject.

I own I have been circumstantial; but those who are desirous to understand the nature of the difeases as well as the cure thereof, (which in fact are inseparable) will find, I hope, their time well rewarded in reading attentively the whole; the learned as well as the unlearned. If the reader is led infenfibly into important observations, regarding the animal œconomy, or unawares into a confideration of fimilar difeases, moral reflections or fentiments, without lofing fight of the fubject, but on the contrary, having it illustrated, I suppose he will sooner forgive me fuch a fault (if it should be thought one) where he will be furprized with things unexpected, than a disappointment of an opposite nature: For a variety of matter, though not foreign to the topic treated on, is requisite to prevent a subject, particularly of this nature, from becoming irkfome: And I am apt to think, the neglect of this, is one principal reason, why physical subjects are not read so often, as I am inclined to believe they otherwife would. With

With regard to the language, though it is not according to the modern luxurious mode of writing, and in many places may not stand the test of the delicate critic, yet, I hope it will be found clear and concife enough to convey my meaning; as well to the respectable faculty, as to every sensible man of moderate education; and what I have been deficient in elegance of expression, I hope to have made amends for in utility and perspicuity; it is very seldom they are all found together. A form to thom

On the whole, I flatter myself, that I have discharged my duty to the satisfaction of every lover of truth and of mankind. What reception it will meet with, among men of finister views, gives me no manner

of concern with regard to myself.

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with the prester chearfulnels; and have

this only to observe, that I have endeavour-

The principal part of my life I have spent in the pursuit of knowledge; the remainder I wish to spend for the good of mankind, as a dutiful return for the benefits I have received from fociety.

N. D. FALCK: In confequence of these reflections, and

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PREFACE

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SECOND EDITION.

IN the school of life, I have learned to make great allowances for the prejudices and weaknesses of human nature; and therefore, although I was confcious, that I could write on the present subject as an experienced practitioner, and contribute to the improvement of medicine, I saw it requisite to arm myself with so much indifference, as not to let the vain hope of applause, or timid fear of cenfure influence me, before I could determine to put my plan in execution. Having thus conquered my own weaknesses, and quelled all filly apprehenfions within myself, I set pen to paper, and wrote to the world with as much pleasure, as if I had been converfing and communicating my fentiments, in a circle of my most intimate friends. And I am happy, that this my first medical production has been rewarded with a reception, that confirms the justness of my sentiments.

In consequence of these reslections, and the success of the first edition, I offer the second with the greater chearfulness; and have this only to observe, that I have endeavoured to the best of my judgment, to amend

all its defects.

The first and second part of the book remain unaltered, with respect to the subject itself; but as it was the general opinion, that I had in various places in the third part been led into medical disquisitions, deeper than what the subject required, I readily complied in expunging what appeared to me superfluous; and believe, that though the book is somewhat less, it however is sufficiently compleat with respect to the subject.

The recipes in this edition I have written in Latin, and at full length. This may feem to deviate from my first intended plan, in extending its benefit universally; but from the forcible arguments of men of candour and experience, I am persuaded that the alteration cannot in the least obstruct its utility; but must have many advantages, particularly in a venereal subject, where there are so many illiterate pretenders.

To conclude, I return general thanks for the many testimonies of approbation I have been honoured with. Conscious, that I have, and wish to contribute to the welfare of mankind, I am happy in giving satisfaction to the worthy part of society and in following the dictates of my own conscience.

argord bus no botal arms N. D. FALCK.

Queen's-Court, Great Queen-Street, Lincoln's-Inn-Fields.

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PART I.

AN

Anatomical and Physiological Description

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The Genital Parts of BOTH SEXES.

In order to acquire a true knowledge of any difease, it is absolutely necessary to be acquainted with the parts afflicted: for without this, we must wander in the dark, and be liable to stumble at many inconveniencies, which by that knowledge, we are enabled to avoid. I shall therefore give the reader a faithful description of the parts generally first infected by the disease here treated on; whereby he will, not only easily understand the rationale, and be convinced of the conciseness and ease of the method of cure here offered, but likewise discover the dangerous rocks, on which so many unfortunate adventurers have split; either from their own neglect, or from their ill fortune of having sallen into the hands of the unskilful.

Of

C H A P. I.

Of the Genital Parts of a Man.

HE genital parts belonging to a man, may justly be confidered under two heads; namely, that part which is appropriated for the fecretion and excretion of urine; and that part, which the great Author of existence, has appointed for the propagating of the human species, and placed the quinteffence of all fenfual pleafure; namely, the feminal parts.

Nature is for ever most simple, and compendious in her works: and it was undeniably, for more wife ends than man can conceive, that thefe two, fo very different functions, should meet in

one member.

We cannot, without aftonishment, observe, the various methods nature has taken to form the parts of generation, in the different species of animals; fo that they differ not only in proportion to their various forms, but also according to the element they belong to. We may form what conjectures we please concerning these mysteries: but the best use we can make of our enquiries, is to trace the path of nature, and confine our examinations to fuch fubjects, as may render us truly beneficial to fociety.

The urinary parts are, the kidnies, the ureters, the bladder, and the urethra in the penis. The urethra, however, as it is the common canal for

both

both urine and femen, is peculiarly subject to vene-

real infection, but of this more hereafter.

The kidnies are appropriated for fecreting the urine from the blood; for which end they receive the blood from the descending trunk of the aorta, or great artery; from whence (much about the same part) all the genital parts receive their provision. From this artery goes out a branch on each side to the kidnies, termed, the emulgent arteries, which spread themselves into numberless ramifications in the glandulous part in the kidnies, and at length are taken up by ramifications of veins, which follow the arteries all along, and carry the blood back again out of the kidnies into the great vein, called vena cava, which returns the blood to the heart for a new rotation.

Whilst the blood is circulated in the kidnies, a number of small tendinous tubes, (interwoven with the arteries and veins) separate from the blood, by many little quantities, the urine, and carry it by their ducts (which gather as they go) into a receptacle, and from thence, it is carried

by the ureters, into the bladder.

This receptacle, or pelvis in the kidnies, is of a very curious structure: its body is tendinous, and full of little papillæ, (in my opinion likewise very nervous) which are somewhat separated from the cavity of the kidnies wherein they are lodged, except the various tubes, which enter the body of the kidnies. How the secretion of the urine is formed, has employed the speculation of many; but I am afraid, all alike, equally fruitless: that it is so, is all we can ascertain; but in what manner, we are as much at a loss to account for, as all other surprising secretions; the pancreatic,

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the falival, &c. but especially the seminal. In this pelvis is frequently a calculus formed, and found in fubjects who have been afflicted with the gravel. This plainly convinces us that the calculous matter is carried along in the blood, coheres as foon as fecreted, encreases with rest, and that diuretics must of course be beneficial. The body of the kidnies is composed of these three different kinds of veffels; the arteries, the veins, and the fecreting channels: and there feems to me no doubt left, but that the kidnies must be in perpetual motion in a living subject; (perhaps, not unlike the peristaltic) as an action abfolutely necessary, not only in this, but in all other glands. It is agreed on all hands, that nature defigned the fat as a warmer; this no doubt was partly the defign; and in gross people the kidnies are largely covered with fat, doubtless to keep them warm and in action.

The urine fecreted in the kidnies, is carried in small tendinous tubes, to the bladder; these tubes are generally of the bigness of a very small goose quill; they open into the bladder in a manner so as to shut the door after them, that nothing can return: as they creep for a little while between the lamellæ of the bladder, and close, somewhat in the form of valves. Hence we see the reason, why we can blow up a bladder in its natural state; but if reversed, that it nei-

ther will be wind nor water tight.

The bladder, vesica urinaria, is of a muscular, tendinous, and nervous structure, will suffer a very great distention, and is capable of as great contraction. It is exquisitely sensible; witness those afflicted with the stone: the sibres are in-

terwoven with arteries and veins, which take their rife from the epigastric vessels. The teguments of the bladder are generally reckoned three; the first coat is muscular, in a longituninal direction; the second of a spiral; and the third in all directions possible; they are, however, so closely connected with one another,

as to make, properly fpeaking, but one.

The neck of the bladder is very muscular, and makes what is called the sphinder, by which the urine is retained. This part of the bladder is more nervous and stronger than the rest; hence it is liable to inflammations, and violent spasmodic contractions, from whence many ailments have taken their beginning, and from unskilful management have been made incurable; of which we shall say more in its proper place.

The whole bladder, and in particular the neck and the urethra, have a number of little mucous glands, which ooze out a slimy liquid, whereby the innermost coat and passage is protected a-

gainst the sharpness of the urine.

These are the urinary organs. We shall leave them for a while, and take under our consideration, those ordained for more material uses,

I mean the organs of generation.

The testicles are not only the principal instruments of generation, but there is something so facred in them, that they seem to contain the whole soul and spirit of manhood. They are generally two in number; I say generally, for subjects have been sound with three, and many with only one. And though it has been thought formerly, that one testicle would be insufficient

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for generation, yet it is now fufficiently proved, both in men and brutes, that one is fufficient for the propagation of their species: and has no farther inconveniency than, that like the one eyed, there is but one to lose, since their office in the animal occonomy is independent on each other.

The tefficles receive their blood for fecreting the feed, from the descending trunk of the aorta, a little below the emulgent veffels; and from these last mentioned, a few small branches also. These arteries run down a little while, and then meet with the veins, which carry the blood back from the tefficles, and empty themselves in the afcending vena cava, which lies immediately behind the trunk of the aorta. These vessels, the arteries and veins, run along, variously contorted and interwoven with each other, down through the abdomen, inclosed with the peritonæum, into the scrotum, and penetrate into one end of the tefficle: And as the arteries, in many turnings and windings, carry the blood to the testicles, the veins, in as many twiftings, carry it back again from the testicles to the ascending trunk of the vena cava.

These are called the spermatic vessels, or vasa preparantia; and partly from their texture, and partly from their different turnings and windings, they are tender and delicate to a very great degree: hence a contusion of the testicles is of a most alarming nature, and a sphacelus in that organ, (if it is not immediately extirpated) will soon extinguish life. Part of these spermatic vessels split into different branches, just before they enter the testes; and by that, form, what is called, the corpus varicosum pampinisorme, or pyramidale;

pyramidale; round the body of the testes is a kind of a crown-like body, which is no more than these vessels interwoven with one another, accompanied by some seminal tubuli, apparently to prolong the secretory tubes. The fize of the testicle is about that of a large pigeon's egg; in substance white and soft; consisting of the forementioned vessels spread into capillary tubes; intermixed with the secreting channels, which all collect into one general duct, called, the vas deferens, or ejaculans; by this duct the feed is carried from the testicle as it is formed, to the vesiculæ seminales,

The tefficles are contained in three teguments; the first is the albuginea; a membrane peculiar to the testicle, and adheres inside to the substance itself, but on the outside it is smooth, white, tendinous, of a delicate and very fenfible texture. The fecond is, the elytroides; this membrane is a processus of the peritonaum, which, encompaffing the feminal veffels closely, whilft yet in the abdomen, runs along with them through the foramina of the oblique and transverse muscles of the abdomen, and enpurses them till the commencement of the testicle, where then it strictly adheres; then separate again, and form a new capfula round the tefficle, apparently as if it was a returning of the albuginea, being infide of a perfect fmooth furface. Where the fpermatic chord perforates the abdomen, the ruptures of the belly have their commencement, to which the upright walking animal, man, is particularly fubject, diffinctly from the quadrupede: as that orifice of the peritonæum is liable, by a strain in an upright posture, to dilate or give way

way, and thus admit part of the intestines to slip through, along-side the spermatic chord into the scrotum. The third is, the scrotum; this is a natural purse, continued from the common skin, with this difference, that instead of the membrana adiposa, a thin muscular skin is continued and forms the cremaster muscle. These two last skins adhere closely in a natural state, but it is here most generally, between these two last teguments, where the seat of the hydrocele is to be looked for, and very seldom within the processus vagi-

nales, or elytroides.

The first skin, or membrane, is an immediate guard to the testicle, and feminal vessels; in order to keep those tender parts in the first formed fituation, that they uninterruptedly may continue their function with firmness. The second feems like a fuspenforium, to retain them as parts which in the fœtus properly belong to the bowels; and I have often observed in very young infants, that fometimes one, (particularly the left) and fometimes both tefficles have been drawn up in the very bowels, and disappeared: fometimes I have observed this in grown persons; though it is natural to suppose, that such dilations must be subject to ruptures. The scrotum appears plainly to be the external purfe of these organs; and chiefly fuspended by the muscular membrane from the cremaster muscle: externally the scrotum is suspended by the dartes; which is the natural suspensorium of the scrotum itself.

The vafa deferentia are tubes, which in a perfon of health and vigour, are about the bigness of a middling goose quill: they apparently come out where the seminal vessels enter, and make

various

various convolutions about the before-mentioned vessels: they rise with them, enclosed in the peritonæum, enter the abdomen, where they separate from their accompanying vessels, and march along towards the back part of the neck of the bladder, where they join and empty themselves into the vesiculæ seminales; which are two little bladders appropriated to contain the feed, till it is wanted for use. These vasa deferentia rise, as I said before, apparently with the vasa preparantia; but if strictly examined, they rather come out at one end, and creep slowly along to the place where they rise; and their lower ramificating endings intermix wonderfully with the other vessels, which compose the testicles.

The veficulæ feminales, or feed bladders, are two irregular formed bladders, placed about the neck of the bladder of urine, near the intestinum rectum, a little above the proftate gland, and is the receptacle of the feed till it is wanted. They have many cells, which all have a communication with one another. Its tegument is of a very delicate and nervous substance. The two vasa deferentia before-mentioned, join together just at the bottom, and at the place where they have a communication with the veficulæ feminales; fo that the openings into the neck of the bladder of urine, and the openings into the feed bladders, are at one and the same time, but in so curious a manner, that they do not interfere with each other: for the vafa deferentia empty themselves into the veficulæ feminales, and those again empty themselves with a rapturous pleasing force, into the neck of the vefica urinaria; from whence the feed is instantaneously transported, and with a pulse-like contraction, ejected, when at the

height and crifis of coition.

The opening of these ducts into the neck of the bladder, is very singular in its mechanism: the mouths are muscular, and very nervous; within the neck of the bladder are a number of small mucous glands which yield a lubricating mucus, which sheaths that part from the sharpness of the salts contained in the urine; but especially about the head in the middle of these openings, they are in more plenty. And besides these common glands, there are the openings from two other considerably larger glands, near the prostata, in order to lubricate it more plentifully.

The openings of the vesiculæ seminales are two; between these is a caruncle, called caput gallinaginis; this caruncle shuts both orisices at once; and it is from the weakness of this caruncle chiefly, that the seminal gleet has its existence, sometimes a malady of a very obstinate nature.

The prostate, is a gland situated a little below the vesiculæ seminales; so that part of the ducts, which carry the seed from the vesiculæ seminales into the urethra, pass partly through this gland. This very gland has given rise to much controversy; from strict examination it appears plain, however, that it is a conglomerate gland, of many small ones; and I am sully persuaded, that besides, from this gland, the inward part of the neck of the urinary bladder, and the caput gallinaginis are lubricated, that it also has a considerable share in rendering the semen virile potent; for in the first place, it has been found shrivelled away considerably in castrated subjects; so that

from the fize of a walnut, (its natural bigness) it has been quite flat, and withered. And secondly, if the prostate gland is ulcerated, I appeal to the skilful and experienced in venereal cases, whether a grievous gleet, and a sterility of the seed are not the unavoidable satal consequences? Indeed, I know scarce a worse ailment, with which a patient can be afflicted, and is more bassling to a surgeon; but of this more hereafter.

We should come next to the urethra; but we will leave it for a while, and first examine the penis in a general way, and take the urethra as it follows in the course of this examination.

Of the PENIS.

HYPOCRATES was pleased to call the penis a head-strong, obstinate and unruly animal. In many respects he was certainly right; for, when Venus inspires it with a passion of desire, it is surjously inclined to sacrifice every thing that lays the least obstruction in its way. But we will leave its ungovernable temper for a future speculation, and at present content ourselves with the examination of its most wonderful and curious structure.

The penis is partly covered with a skin, which continues from the common tegument; from which it differs in nothing, except in the cellulæ adiposæ: for in the sattest people, this part is always excluded from fat. It has been supposed that frequent erections have prevented this fatness, as from a continual exercise of that part; but

but this, as it feems to me, can scarce be the case: be this however as it may, fat is here preternatural. This skin covers the penis till behind the glans, or balanus, where it is faftened; the glans, or balanus, however, has no other covering than a very thin membrane, barely the cuticula, by which it is rendered exquifitely fensible. The fore-mentioned skin, however, has a peculiar flackness, and particularly at the end of the yard, where nature defigned, that that tender part should be covered from external injuries, whilst it is, either not in action, or till it becomes stronger and more robust, by frequent exercise. This is evident; fince children have their glans covered, which is continued till they grow up; and by frequent venery this skin becomes more dilated, and the

glans more robust.

This feemingly superfluous skin, is called the præpuce. Nature never varied more in any one thing, than in this; for in some subjects it covers the glans to a degree beyond what is necessary; from whence they have acquired the name of filberts, and fometimes, even with art, cannot be dilated fo as constantly to uncap the glans in coition. These narrownesses are liable to many inconveniencies, as the mucus behind the crown is apt to become rancid, and cause soulnesses and ulcers, where even nothing venereal is in the case. This perhaps was one reason of the ancient Mofaical law of circumcifion: and many I have observed, particularly of the Ifraelitish, have still occasion for such an operation, though more effectually, than their fuperstitious rabbies perform it. Others again, in the early state of puberty,

puberty, will have the glans uncovered, and feem fearce to have skin enough when the penis is erect: in this case, the glans is generally very robust, whilst in the former, it is of such delicacy, that it would be painful even to touch it

with the bare finger.

This præpuce is tied underneath by a ligature, which is just under the end of the glans, called frænum. It feems sometimes very much straitened, but frequent coition makes that and the præpuce easy enough. But it is remarkable, that, in very old people, as their passions subside, and consequently the erection of their penis, and coition less frequent, the præpuce will grow strait, and the frænum tight, so, that from this inconveniency, (if they are not very cleanly and careful) ulcers will arise, which have much the appearance of shankers in venereal cases.

At the infide of the præpuce are a number of little glands, like small pin-heads, which yield a very delicate lubricating mucus; but as the glans becomes frequently uncovered, the ducts

of these glands often dry up.

All along, variously disposed in the skin, are plenty of lymphatic vessels; from these, and from the above-mentioned little glands, this part of the penis is as subject to the insection, and retains it as much as any other part, since the flaccidity and distention is equally as sudden, as I shall hereafter farther illustrate.

The inner body of the penis is composed of the corpora cavernosa penis, and the corpus cavernosum urethræ; the first are two bodies enveloped in their peculiar teguments joined together, and make the back and the greatest part

of the penis itself: their texture is spungy, full of cavities, and all these cavities are in connection with each other. Each of these bodies takes its origin, in conjunction with the mufculi erectores, from the os pubis, from whence they go on till they meet with the cavernous body of the urethra, and continue with that to the glans. Through the middle of each of these bodies go an artery and a nerve. The artery takes its rife from the epigastric, or umbilical branch; and the nerves take their rife partly from the great crural, and partly from the third of the facrum. These nerves accompany the arteries, all which fpread themselves into innumerable branches in and about the cells and cavities of all the cavernous bodies.

All these ramifications of this artery are taken up at their extremities by equally small ramifications of veins, which carry the blood from the cells of the cavernous bodies of the penis, into the large vein, which runs along the back of the penis. This vein is called the vena penis; and it is from its compression, at the root of the penis, whereby the blood is forced into the cells of the cavernous bodies of the penis, and the results of the blood hindered, that the penis becomes erect, and remains so, till the blood has found its course, then leaves and slackens all the cells as they were before.

The corpus cavernosum urethræ, includes that part which stretches from the bulb, all along under the other bodies, to the end of the penis, including the glans. This is, properly speaking, the material and principal part of that

member;

member; the whole of it is spungy, and full of

cavities, like the fore-mentioned.

The glans is peculiarly tender and delicate, being chiefly the feat of pleasure, and from the titillating irritation of this, the rest of the organs are summoned and stimulated to exert their functions in the act of coition. The whole of it is curiously interwoven with nerves, arteries and veins, and the cells are here smaller, and consequently more numerous in proportion than

in the other cavernous bodies.

Underneath the glans is the frænum, mentioned before, fastened to the præputium; but it has also a very strong communication with the inner coat of the urethra, where it feems to be tightened like a chord; this is very perceivable, and agreeably fo in a natural erection, but in a priapism it is very painful; and from the contraction of this in the virulent gonorrhæa, it is called chordee, as will follow hereafter. rest of the cavernous body of the urethra is cellular, till it comes to the neck of the bladder, being mufcular and more tendinous, which part we have observed before. Next to the prostate gland the cavernous body is more bulky, and ends in a fleshy protuberance, and therefore by Mr. Cowper, called the bulb. Till this part, the fubstance is much alike, and equally interfperfed with arteries, veins, and nerves; by which it has an immediate communication and continuation, with the other cavernous bodies, and with them at one and the fame time diffended in erection, and flackened in the flaccidity.

The urethra, or meatus urinarius, through which the urine and feed is thrown, extends it-

felf from the bladder, from which it is a continuation, and terminates in the end of the glans; the standard of its length, in erection, entire from the neck of the bladder to the glans, is twelve inches; but this varies greatly in different subjects. Its tegument is of a tendinous and nervous structure, and is plentifully provided every where with excretory glans, which yield a lubricating mucus, with which it is lined, and protects the inner coat from the acrimony, which is more or less in the urine.

These glands, as I have observed, are plentiful; but more fo, towards the neck of the bladder, and there most of all. It is these glands which frequently are infected, or, more properly fpeaking where the virus of the infection makes its first appearance in the gonorrhœa, and very seldom in the feminal veficles, and the proftate As these glans increase in number, they increase in bulk also, being considerably larger about the neck; and it is there the mouths of Cowper's excretory glands are vifible. They no doubt are defigned to feed and lubricate the caput gallinaginis, or verumontanum, which, as the porter of the feed veficles, is very delicate, and as a confequent member to generation, is more intitled to, and flands in greater need of this lubricating mucus.

The penis is allowed to have two pair and a fingle muscle. For my part, in dissections, I could always make six out; but there is no branch in anatomy which gives so much room for disputation as myology. An over-nice anatomist may easily make out a list of muscles, amounting to double the number commonly

given;

given; for in fact, most muscles seem to be composed of a variety of other small ones: I shall therefore keep the customary standard, particularly, as the difference in this cannot amount

to any thing of real benefit.

The first pair then, is the erectores, which take their origin from the fleshy protuberances of the ischium, and lose themselves in the cavernous bodies of the penis. These two muscles, one on each fide, are chiefly instrumental to the erection of the penis; which by the influx of the animal spirits, contract themfelves, and draw the penis nearer to the offa pubis; and partly by compressing the vena ipsius penis to the pubis, and partly from an immediate contraction of the vena itself, or other unknown causes, the blood being hindered from a reflux, enters into the cells of the cavernous bodies, fwells them up, and thus makes the penis erect: this function is greatly affifted by the rest of the muscles.

The fecond pair is the transversales, which take their origin from the ifchium, near the erectores, and adhere near the accelerator, about the bulb of the penis; these muscles in conjunction with the before-mentioned and the following, help towards keeping the penis in its natural erect position. Their magnitude is variable; in some subjects they are bulky, in others but fmall, and in fome, it has been observed, they have been wanting; the latter I am apt to think, must be a mistake: be this as it may, from their fituation, they feem to be defigned by nature as well for the contraction of the vena penis, as also to affift to open the cavernous bodies of the penis, and part of the urethra too.

The accelerator is the odd muscle; one might however, with great propriety call it two, fince it is very distinctly divided in the middle: however, it is immaterial as to the use of it, whether one or two. This muscle takes a tendinous commencement from the cavernous body of the urethra, soon becomes slessly, and encompasses the whole penis; leaves it again, for a part, and confines itself chiefly to the bulb; where it straitens the veins, and helps to compress the whole root of the penis: it enters with the penis under the os pubis, and soon joins to the sphincer ani; where it leaves two little laps of sless, and which are sometimes called the third pair of muscles.

This muscle I look upon most material, as well in erection, as in ejaculation; for in grasping, (as it were) the penis, it compresses the vena ipsius, and the neighbouring returning veins, more than the erectores do by pressing it to the pubis: for was this last mentioned pressure the material object, an artificial pressure with the hand, (and which is even more powerful) would have the same effect; but this we find is not the case: Still, that the erectores are accessary towards the compression of the vena-penis, and the

erection, is beyond all dispute.

When the penis is erect, there appears evidently a greater pressure and contraction at the bulb of the penis, (that is in the perinæum) than at the pubis: and in a priapism, this part is sometimes actually inflamed, as I observed remarkably in a man, who from a lascivious wantonness, had taken Tr. Cantharid, and from this frolick narrowly

rowly escaped death, by the immediate affishance of plentiful bleeding, and emollient clysters.

That the accelerator, is the principal actor in ejaculation, is univerfally agreed on; for by its contraction, it very perceptibly communicates to the whole urethra, a pulfive preffure: and as a farther proof of the above affertion, it is evident also, that by these contractions (for example those we are wont to make after letting urine) these very contractions repeated, will soon cause an erection; moreover, it is these contractions in a chordee, or violent priapism, (which then for the most part are involuntary,) that give the

throbbing pain.

These are the acting muscles of the penis; and it is plain, that by the affiftance of them, the penis becomes erect, and adds confiderably to the pleafure in coition. But it is wonderful, that fometimes they should be so alert and ready, nay, even at times without defire or will, and at other times as fluggish in their function: I know, to this it may be answered, that it is a universal cause with almost all muscles, from the influx of the animal spirits; I could wish to give my fancy and opinion some scope here, but as this would perhaps lead me into an argument too extensive for this work, and be of very little use to my present defign, I shall preserve this indulgence to another opportunity. Suffice it therefore to observe, that a stimulus on the nerves will irritate these muscles to contraction, as soon, or even sooner, than any other.

All convulsions are attended, more or less, with erections; and those of the epilepsy, with a profuse ejection of the seed. A priapism, adds

not a little to the pain of criminals when they are whipt, and is always the attendant of those unfortunate wretches who suffer on the rack. When a malesactor has hanged till he is cold, he is

generally found with the penis erect.

These are violent and unnatural erections, and always followed by flaccidities, even to a lameness in these parts. I cannot help pitying here these unfortunate half men, who are under a necefity of being whipt with a rod, till they, with tears in their eyes, are made capable to perform venereal functions; but as for those diabolical lascivious fools, who do it merely out of wantonnefs, I would only remind them, that befides, from fuch an unnatural flimulus, they will in a short time be rendered feeble and perfectly impotent, but also, that it drives or hurries them, not only to the grave, but to that place, where Lucifer, the author of these inventions, will exercife whipping on them, to their eternal mifery.

The natural irritation scarce needs description; instinct is the spring in brutes, and that with reason guides the rational being. Both are naturally satisfied when their desires are gratified.

Men love a mistress, as they love a feast,
How grateful this the touch! and that the taste;
Yet sure there is a certain time of day,
We wish our mistress and our meat away.
Again the stated appetite returns,
Again our stomach craves, our bosom burns.

In short, when the vesiculæ seminales are provided with seed, there is a propensity and inclination

body

nation for coition; the mind is filled with defire. and all the organs before described are ready to affift each other for enjoying that blifs, which great as it is, still at that juncture by far excels the real, in the raptured imagination. If the enjoyment is mutual, and agreeable to nature and confcience, the fatisfaction after enjoyment is equally pleafing to the preceding blifs itself. And in that moment perhaps, is the ultimate limit of human felicity; but if against the laws of nature, remorfe and felf-reproach follow as natural confequences. However, when the veficles have emitted, the constriction of the muscles ceases, and the mind begins to loath. From this it is evident, that these parts are in the strictest conjunction with each other, and that the irritation of the femen in the veficulæ feminales must be a powerful stimulus, also that that stimulus is unverfally throughout all the genital parts, even in the fpermatic vessels, and these again with the urinary parts; from this connexion diuretics generally become stimulants to venery.

In fine, the structure of our wondrous fabric, is so amazingly curious, that all the sibres, let them be ever so remote as a sunder, have almost an instantaneous communication with each other; of this we are every moment to our assonishment convinced, and most so to occular demonstration, by the circulation of the blood. Who can behold without amazement, that the blood which is now in our little singer, will in a few moments have made its course through our body, and be transported and dispersed into our foot! But this amazement must still be encreased, when we restect on the instantaneous connexions between

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body and foul; that our external fenses, (like so many watchful and faithful centinels) at the least sensation, like lightning itself, gives notice to the

mind of pain and pleafure!

The inguinal glands cannot be firifly reckoned with the genital parts, fince there is no diftinct, or rather remarkable connexion between them and the fore-mentioned parts: but as they are of the greatest consequence in the venereal disease, it becomes absolutely necessary to under-

stand something of their structure.

The doctrine of glands is the most intricate in anatomy; as a universal knowledge thereof, we know only, that they consist of an immense multitude of small convoluted and contortedly interwoven vessels; that they secrete different humours from the blood; that they are always in action; that they are very delicate and very liable to be obstructed: Large essays have been written on the subject; for my part, I never saw one yet, that amounted to any thing more at the end of the chapter, than that there were a great many glands, which secundum artem, were distinguished into a great many classes, and as I observed above, very curiously formed.

The comparison I am about to make may seem odd, though perhaps not improper; the glands in the animal economy, I compare to so many different manufacturers; the workmen are alike, but their professions differ; each class work in their own trade, but all for the benefit and support of one another; the one can not do well without the other, yet some have a nearer connexion amongst themselves than others; and they still differ in appearance more or less.

I should be glad to be rationally informed, why mercury brings on a salivation; why it affects the salivary glands, the gums, the tongue, and the throat? And why not all the glands in common? Methinks, I see the young spark who has just begun to walk the hospital, smile at my ignorance; I must beg leave to tell him, I was once as wise as himself, but alas! the more I learn, the less I know. But to return to the glands.

Those in the groins are to all appearance of the lymphatic, and of the conglobate kind; I obferved before, that they were not remarkably onnected with the genital parts; but if we have recourse to minute anatomy, we shall soon be undeceived to the contrary, and experience (the greatest teacher) leaves no doubt of their im-

mediate and univerfal correspondence.

But, over and above all this, there is fomething in the inguinal glands which is peculiarly fubject to the venereal poison; I say, peculiarly, for why will the infection not communicate equally as soon at contact to the neighbouring glands? But this question is rather needless, since it is beyond all doubt, that peculiar glands, are

more or less liable to peculiar diseases.

Let it suffice therefore to observe, that the tegument of the penis and the scrotum, abound with lymphatic vessels, and these have all an immediate communication with the inguinal glands. It is certain, that when a patient is insected with the venereal virus, that it will go between the various parts, from a swelled testicle to the groin; from thence again to the uretha, &c. We know also from experience, that the miasm will lay concealed in the inguinal glands

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for a long time; but it ought to be known too, that of all the glands in the human body, there are none more tractable and compliable, than

thefe very glands.

A bubo will eafily disappear root and branch, if properly managed; and I am forry to fay, but must insist upon it, that whoever has suffered much from this complaint, under attendance, has been ill treated; and I will add, if thefe glands were not of an uncommon good kind, nine out of ten of those who have escaped from being ruined by caustics, would have added to those, who have fallen a facrifice to that injudicious practice.

I shall here conclude my description of the genitals of the masculine gender, and proceed to the organs from whence we took our entrance

into life.

C H A P. II.

Of the Genital Parts of the Female Sex.

EST I should be censured, as being too communicative in what I am going to def-

cribe, permit me reader, here to premise.

Modesty is that ornament of the female fex which doubly endears them to our love and efteem. It is a faithful monitor to chaffity, and illuminates with a celeftial beam of light, every other virtue of the beloved object of our bosom. It is that inestimable jewel which entitles them to our respect. It aids them instead of strength against the assassin of their virtue, and strikes an

awe into the beaftly wretch, who would dare to facrifice their reputation and happiness to his luft.

But the woman who has loft the fense of modesty, and abandoned herfelf to profitution, becomes an object of difgust and contempt; and branded with the infamous epithet of whore, she is excluded from every mark of effeem and friendship, as well from the opposite fex as her own, even from the wretches in her own unhappy condition.

But is this virtue confined to females only? Surely not; even man as the fuperior, is less excufable. There is nothing more contemptible in the eye of every female, than an immodest man, either in actions or words: lasciviousness gives not only an unpardonable offence to virtuous females, but is difguffful even to the most abandoned of that fex; discovering to them, not only a baseness of heart, but a deficiency of understanding, which will ever fink into univerfal contempt.

This digression I hope will be understood in its proper light; and I beg leave to add, I write to the faculty and men of fense; but not for the

abuse of fools. And now to the subject.

The genital organs of the female fex, are joined with the urinary parts, as well as those in men, but materially different. In regard to the urinary organs there is no difference, with respect to the ureters and the structure of the bladder, except that the vefica urinaria is generally larger and more pliable for extention; but this quality is univerfally peculiar to the fex. Throughout the animal œconomy, the fibres as well as the disposition are more delicate and soft in the feminine gender than in the masculine; no doubt

ness of the superior sex, ordained by nature for the government, support, and protection of the weaker. The supposition that this difference of delicacy proceeds from habit, is evidently er-

roneous, and repugnant to nature iftelf.

The neck of the bladder and the urethra is very short, yet considerably wider than in men, on which account they have many advantages over men: They are not so subject to the gravel and many other complaints as men; and a catheter is much more easily applied. From the same conveniency also, they urine with more facility.

The organs of generation we shall examine under these two parts, namely, those which offer to our view and senses without dissection; and those parts which are immediatly concerned in gestation, and to be examined only anatomically.

The first, is the pudendum muliebre in the general term, and includes every part which offers to the fight and touch from the mons veneris to the anus. (viz.) The mons veneris, rima magna, labia, clitoris, nymphæ, meatus urinarius and the vagina, all which we shall take

under our confideration in their turn.

The pudenda in males as well as females, are naturally covered with hair; and though men have greatly the fuperiority of hair over their bodies, to the females, (which adds not a little to the manly robustness) yet on these parts they are equally well provided. This, as well as many other triffling subjects, have caused controversies, whether nature designed that provision for ornament or use: for my part, I shall always believe, that nature meant nothing ornamental but

but what is useful. It is however, quite otherwife with fancied ornaments; antiently the Spaniards shaved their wives, and this in our times is even a practice amongst some of the eastern nations.

Be this however as it may, it is certain that in general, when they begin to fprout out, it is a fign that maturity commences, and to add vi-

gour was doubtless nature's intention.

The mons veneris is the protuberance on the brink of the pubis, and appears agreeably covered with fat, and most provided with hair. This mount alters much in the same subject; in general it is proportionally plump with the breasts: and at the time when the innocent maid is furprifed with hair, and strangely alarmed with the approach of the catamenia, it is then, that this mount is in its meridian plumpness, accompanied with the fwelled bosom; nature ripens, and it is then, the expressive eye, though innocent, proclaims, the maid stands in need of a guardian This is the crifis of womanhood; whilst the passions are lively, this mons continues plump even in thin habits, different from a fat plumpness, and with the passions it subsides again, fo as to be entirely flat in old age.

The rima, is the external gate of these organs, and is that slit, or aperture which opens immediately under the mons veneris, and continues

till near the anus.

The part between this and the anus itself, is called the perinæum. The parts on each fide of the rima, is a continuation of the common skin, and membrana adiposa; which terminates somewhat thicker there than common, and forms the labia or lips.

These

These lips, though a continuation of the membrana adiposa, don't contain fat, as is generally supposed; for observation teaches us, that they remain of one fize, let the woman be fat or lean: nay, the pudendum is even larger in lean subjects than in fat, (I mean, apparently) and from the same reason too. They abound with lymphatic vessels, which have an immediate communication with the inguinal glands; hence they are as often assistant and liable to buboes, as men.

The infide of the labia, all within the rima, is very delicate and thin, and hence in venereal infections, these parts are very subject to shankerous ulcerations, and sometimes swell up and are inflamed to a great degree, from the same cause, and in the same manner, as the phimosis, and paraphimosis in men; but neither with so much pain or danger, nor near with so many difficulties

in the cure.

Women have naturally many discharges from their pudenda, to which men are strangers; it becomes therefore necessary for them to be more cleanly; for by neglect, they are not only subject to become in those parts disagreeable, but form sebaceous humours, which lodged in the crevices, and becoming rancid, are subject to generate fores and ulcerations; and it has often happened, that chaste matrons from such circumstances have been stigmatized with crimes, or else suspected their husbands, though both innocent; which has taken its rise from nothing else than uncleanlines; particularly at a time of an acute sluor albus, in an acrimonious habit of body.

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The clitoris is feated at the upper part in the rima, immediately under the mons veneris. It is the principal feat of fenfual pleasure in coitu in woman, like the glans penis in men, and which it refembles very much in miniature, except that it has no perforation: in fize it differs much in various subjects; tho' the standard bigness is like that of a natural uvula. But it has been found fometimes fo large, in new born infants that the good women have been at a loss to judge the child a boy or a girl; and to err on the right fide of the question, they have called it both; which has given birth to those monsters called hermaphrodites; but in the strict sense of the word, I cannot think there ever was a perfect hermaphrodite; it feems to me impossible, that nature should wander so much astray, as to form an imperfection, fo very perfect in itself; though we have instances of absolute mixtures, however, neither fex perfect.

The elitoris is a principal member towards generation, and its connexions are more extentive than has been generally taken notice of.

It takes its rife from the offa pubis on each fide, with two tendinous and muscular bodies, like the elevator penis in men, and terminates in a cavernous body; and which is in the middle divided by a membranous septum. This, with part of the forementioned, is the crura clitoridis: the muscular bodies however, continue to the offa coxendicis and these are the musculi erectores clitoridis.

At the other end of the clitoris it divides itfelf and runs all round the vagina, and makes a cavernous body; fo that when the clitoris is titillated lated with a fense of pleasure, and in an amorous inclination, its arteries become compressed by its muscular parts, the reflux of the blood is hindered, and thereby it becomes erect; the cavernous body of itself, with its continuation all round the vagina, and the labia swell up, and grasp the penis with a rapturous ardour whilst in action, and thereby not only heightens the pleafure to both parties, but also excludes the air, fo that the femen virile may warmly, and in immediate contact, be injected into the fundus uteri.

There is not a part in all the organs of generation, but what this ruling little animal has an immediate connexion with; and at the command of this, every other part is ready and defirous of venereal embraces. This is too well known to the lewd, and carried by them to the groffest

abuse.

Round the clitoris is the præpuce, which is foldings of skin in continuation with the clitoris: this ferves not only as a protection, but in coitu has its use. Besides the muscles beforementioned. there are two others, which take their rife from the fphincler ani, though one might with as much propriety, and even more, call them proper to

the vagina.

The arteries of the clitoris and the cavernous body, take their rife from the fame partasin the male penis; distribute themselves into the various cavernofities, are taken up by the fmall ramifications of veins, and carried back again into the hypogaftricks. Its nerves it receives from the intercoftals, and these are very numerously distributed in this part; but besides these, it receives branches

ches also from the ligamentum rotundum, but of this I shall say more presently. The nerves and arteries leave the clitoris again, and spread themselves all round the pudendum, within the labia, the nymphæ, &c. and this is the plexus reticulares; and by swelling these parts in coitu, it adds considerably to the embrace and friction of the penis, for the warming of the parts, and exclusion of the external air.

Immediately under the clitoris, is the meatus urinarius; this passage into the bladder is very short, and surrounded with a tolerably substantial

muscle, called the sphincler urinaria.

It is lined within, the fame as the mafculine urethra, and confequently as fenfible. About the orifice it has a little intumescence, and which is covered with a continuation of that within; partly glandulous, and partly tendinous. This part is generally strongly infected in the veneeral difease, though seldom the immediate seat thereof. Child-bed women often fuffer greatly in these parts from hard labours; but in fact, rather from ill usage: And these parts sometimes become fo relaxed, from the above reasons too, that the fphincter has loft the power of retaining the urine, which is no fmall grievance. But in general they are not fo subject to dysuries and ischuries as men, and are more easily helped; and we have inflances where large flones have been extracted out of the bladder, without cutting or lacerations.

The nymphæ, or alæ, take their rife from the præpuce of the clitoris, and extend themfelves all round the vagina, so however, as gradually to lose themselves in appearance, and

become very fmall indeed, towards the perinæum. Their fubstance is foft, red, and spongy, and fomewhat of a half-moon form. These are the real lips to the vagina, and in coitu are fwelled up, which agreeably fqueeze the penis for the exclusion of all external air: But this feems not all the use nature defigned them for; they appear to be spare folds, that in parturition the parts may gather substance sufficient to extend without laceration.

It fometimes happens that children are born with the nymphæ larger than common, fo as to have them hang below the pudendum, and which has given rife to another kind of hermaphrodites; but this, as well as the clitoris, will bear being shortened with a good bistoury, or scissars, without the least inconvenience. The nymphæ are fmallest and plumpest in maids; but they become however larger and more flabby by frequent embraces, but most fo, after bearing of children.

Between the nymphæ, just under the meatus urinarius, is the vagina. This is the organ deftined by nature to render the propagation of our species, a moment of the greatest transport of pleasure in our lives; but from the abuse of this pleasure is liable to occasion us the greatest miffortune. My task is not here to moralize; it must however, give pain to every thinking being, to reflect, on the many abfurd debaucheries which fools of either fex hurry into, at the expence of their health and peace; when they with more ease and safety might enjoy the extatic blifs of mutual embrace, accompanied with fincere friendship and real love, as the ultimate human

human felicity, agreeable to the bountiful Au-

thor's defign.

The Vagina is the canal from the pudendum to the mouth of the uterus; and ordinarily from fix to eight inches in length, (about the fame dimension as the penis) situated between the intestinum rectum, and the vesica urinaria; to the first it is strongly and intimately fastened by muscular sibres, but not to the vesica.

It is of a texture capable to be extended to a very great width, and even in length too; and of fo elastic a nature, as to suit itself to any narrowness required; full of wrinkles, and narrow-

est at the entrance.

At the entrance we observe that part, which has exercised the curiosity of anatomists in all ages, namely, the virginity; they have not only differed in the form, but even in the existence itself: and from the mistake of some of these sages, many innocent virgins have been cruelly condemned, whilst common prostitutes have passed for innocent.

The greatest faculty of the internal senses of man is judgment; and which should ever be nourished and protected by uncontroled reason. For when once tyrannical prejudice gets the sway, judgment becomes a venal slave, and man lotes his charter as a rational being: It is then he is blown with the wind from one extreme to another, and, with all his learning, forms the conclusion of an idiot.

The opinion concerning virginity, is certainly of no small moment; and as it is a point yet unfettled amongst the learned, I shall beg the indulgence of giving my opinion, amongst the many who have written on the subject; and by the

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above, I mean only to claim attention, and then

leave the reader to judge for himfelf.

The Mosaical law of circumcision, took its rife from the inconveniency of too long a præpuce. Population was encouraged as much as possible, confequently they married very young, and frequently before the vigour of manhood had gained its proper period. The law was put in execution as a religious rite, univerfally to all; though no one will suppose that it was alike to all absolutely useful: for men differ in general not more in any part of their body, than in this member; and in particular in the præpuce. Infants have always their glans covered: but as they grow up to the state of puberty, it becomes sooner or later uncovered; in that state their passions are like touch-wood, the least spark of fire fets them all in a blaze. No one ever described that period better than the incomparable Rousseau, in his Emilius. They have a languid defire by nature, they know not for what. If kept in innocence, this fire will only add to their vigour of manhood; but if vitiated, which is almost unavoidable, particularly in great schools and in large cities, the consequences are too obvious. I say their glans become fooner or later uncovered; either by private trials and handling, or by coition itself; some with difficulty, others with much eafe.

Now this tightness of the præpuce I compare to the virginity in women; for fince they married very young before the passions came to their proper maturity, the maidenhead would have been as troublesome to the male virgin as the female, which by circumcifion was intended

to be prevented; and the females being married very young, even before they had had their menses, were of course very delicate. And this

gave rife to the Mosaical test of virginity.

The experienced in amorous matters, readily grant with me, that women differ as much in narrowness and wideness, as men can do in their members; without regard to either bulk or stature in other respects. Girls, when they commence women, are as much of tinder as boys; ture is as much at work to perfect them for generation, as the opposite fex; and their passions are as eafily put in a fermentation. Fortunately for them, their different mode of education excludes them from the opportunity of being fo foon vitiated as men; but fooner or later they discover fomething, which inclines them to the other fex; which together with mysterious terms they hear from others, cannot fail of exciting their natural curiofity. And how should it be otherwise? except they are void of all passions, and that cannot be without fome infirmity.

Children are naturally narrow in the vagina, but not more fo, than that a wax taper the bigness of a goose quill may easily be introduced. If the vagina is unperforated, it is certainly unnatural; I own this is fometimes the case; but it is also the case sometimes with the anus, and sometimes the penis; and the one requires to be opened by art as much as the other; all which I have done with equally good fuccess, with a lancet properly armed: and this is an object no skilful midwife

should omit to take notice of.

It is this unnatural clofure which has been taken for the hymen; and I am inclined to think, that this unfortunate virginity, has cost many a

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pretty

pretty maid her life. For how should the menses be discharged? Mr. Cowper has given us a most extraordinary case of a married woman, whose husband with (we may well suppose) the greatest dissiculty, gained a tolerable admission into the meatus urinarius in coition; the suppression of the menses, had drove an appearance, beyond the pudendum, like a prolapsus of the uterus; which on examination, Mr. Cowper sound to be the impervious hymen; which when opened, at least a gallon of crumous blood came forth: this obstruction had diverted her husband's admission the other way: however, within a year she was de-

livered of a healthful child.

When the clitoris is erect, or swelled up, the whole part is affected, and there is at that time an actual dilation and contraction of the vagina: If a woman is embraced in that juncture of natural inclination, the parts yield very easily; and I will answer for it, there must be a very great disproportion of parts and roughness used, if there is blood-shed, or violation. But this is not always the case at the first embrace; for, the tender virgin is generally intimidated, which adds naturally to the contraction of these parts; and then on the other hand, the man being absent, from eagerness, regards not tenderness so much as he would do in cooler blood; no wonder then, that these delicate parts suffer more than they otherwise would.

Besides, there is another thing to be considered; it is not only the different habits that are naturally more or less narrow or wide in those parts; the time of the monthly period, makes no small alteration. But even other complaints, to which

every

every innocent woman is subject, has a great effect.

I grant you however, a delicateness in a virgin; and I believe the maidenhead consists as much in

this, as in any thing else, if not more.

If a woman has had her menses, (before that time nature did not design her for marriage) and she is actually inclined for coition, she will embrace it with pleasure, without pain or flooding; unless roughly handled, or a great disproportion of parts.

If a woman however is naturally narrow, (for fome are fo, and never will be otherwise) and particularly, cohabited against her inclination, she may pass more than once for a maid; and there are instances of this very often, as well by nature as by art; for the latter, I appeal to the

good mother abbeffes about Covent Garden.

When this is properly confidered, I think it will plainly prove, that the Mofaical test of virginity, is not always a test of innocence. A man of understanding however, will soon judge right about these matters. True modesty, delicacy and tenderness, both in person and behaviour, will confirm innocence, whether there be any other signs or not. True innocence cannot be seigned, and differs widely from prudery and pretended ignorance.

This is my opinion on this subject, and drawn from repeated observations; and I thought proper to mention it on this occasion, as a duty due to the objects of our greatest concern. It is better ten guilty should escape, than one innocent per-

fon be condemned

The entrance of the vagina in children is narrow, and fomewhat smooth, and this is called the D 3 hymen, hymen, as mentioned before; but, when they commence women, and have had the catamenia, the parts become fomewhat wider, and confequently as the vagina becomes contracted, they become folded, and in themselves encrease by age; and from inclination to embrace, they become little caruncles, about the bigness of myrtle-berries, and always four in number. These myrtleforms, have been thought the lacerations of the remaining hymen, and may fometimes be the cafe, but, as I observed before, it is in general a mistake. I have had the opportunity of examining many women, and found them always of as much a standard-uniform as any other part, (though in fact they very little refemble myrtle or their leaves either): had they been lacerations, they could not possibly have been exactly alike in all subjects.

In maids they are least, but by coition the vagina being widened, they must of course become more wrinkly. Besides they have their absolute use; for they appear to me, beyond all doubt, formed, to close up the vagina, from the external air; and seem to be spare foldings, in order to assist the vagina, in parturitious ex-

tention.

The vagina within is very nervous, and exquifitely fensible: it is full of wrinkles, which are largest in young subjects, become less so by frequent venery, but are almost obliterated by repeated parturitions. The whole is chiefly of a muscular texture, strongly interwoven with veins, arteries, and in particular nerves. All within, between the rugæ, are little excretory glands, called lacunæ; which in the act of coition yield a mucous liquid, which lubricates the friction of both

both parts in coition. The ducts of these glands are sound all about in the pudendum more or less; and particularly about the orifice of the meatus urinarius, as also near the perinæum, called Cowper's Glands. It is in these ducts where the gonorrhæa is seated in women. This liquor has been mistaken for seed; but this mistake, is now

pretty well known.

The vagina has a confirictory muscle, which takes its rise from the clitoris, and expands itself all round the vagina. Indeed, the whole vagina is a perfect muscle; for in coition it is as active as any in the whole body: it is firmly adherent to the rectum, and from the sphincter ani, another muscle arises, which intermixes with the forementioned, and communicates itself to the clitoris; and therefore generally is reckoned to

belong to the clitoris.

The perinæum in women is but a partition between the pudendum and anus, and confifts merely of the vagina, the anus, and the intermediate muscles. In women who have not suffered the extention of parturition, it appears to have a thin edge lapt a little over, towards the pudendum; but in child-bearing, it is apt to get lacerated, particularly by the unskilfulness of midwives; and often becomes troublesome by the cicatrisation, in suture parturitions. From the close connexion of the vagina with the rectum, and in particular the constrictores with the sphincer ani, the venereal virus frequently infects the fundament with shankerous ulcers.

40 OF THE GENITAL PARTS.

Of the Uterus, and its Appendages.

Principal of which is the uterus, where we first commenced our existence. The uterus takes its beginning from the vagina, with which it is connected by a continuation of the same substance partly, and distinguished from it by its mouth, or opening from the vagina.

Its figure (in unpregnant women) is much like an inverted flat flask, and is fituated between the urinary bladder and the intestinum

rectum.

As to its bigness, it has a quality which is the most astonishing of any one thing in nature. Before conception it is naturally about three fingers in length, two in breadth and one in thickness; and yet after conception, as it gradually extends to fuch a magnitude, as to contain a full fœtus, and its furrounding appendages, its teguments will even encrease with its bulk; fo, that when unimpregnated, it will be about half a finger thick, and when dilated to fuch a great magnitude, it will be near two fingers thick, and even of a compact texture; but what is yet more amazing, is, that after the delivery, in a few days it contracts nearly, to its natural fmallnefs. This wonderful texture was absolutely requisite for so great a function, as gestation.

It is allowed to have three tunics; the first is a continuation from the peritonxum, and covers it together with the vesica urinaria: this tegument cannot properly be said to belong however,

to the uterus itself, since it leaves that part again, and communicates itself to the continuing part of the peritonæum, which includes the rest of the bowels. It forms however, by appendages coming from the uterus, the broad ligaments; by which the uterus is properly sustained and supported in its just situation: These ligaments contain the ovaria, tubæ sallopianæ and other consequent vessels, which they embrace and support. The second tunic however, is proper to the uterus itself. This is very strong, and the sibres which are to all appearance muscular and tendinous, in the unimpregnated uterus, are variously interwoven and disposed.

It is these fibres, and particularly the tendinous ones, which in my opinion, are only apparently so in the empty uterus, and become absolutely vessels in the impregnated state; all which are supported and strengthened by the muscular fibres

with which they are interwoven.

The inner tunic is nervous; about the fundus or upper part, it is smoother than at other places. All about, it is filled with small orifices, or openings of blood-vessels, but most so about the neck; and from these openings ooze out the catamenia: but not any thing for sealing up the mouth of the uterus in gestation, as is by some supposed, for which there is no manner of occasion.

The mouth of the uterus is the porter to this grand viscus and organ of propagation; this part of the uterus, is more remarkable than any other part, for its contraction and distention. Immediately after conception, it is shut up quite close, and even so, as to all appearance impossible

fible to dilate; but notwithstanding such strict closure, it opens gradually towards delivery, becomes soft, and excludes the sætus without laceration.

Towards the vagina, this os uteri protuberates, not much unlike the glans of the penis; and in coitu, particularly at the juncture of ejaculation, it meets the glans fomewhat opened, and with a fuction receives the femen virile, by which it is more effectually injected into the fundus uteri.

Its texture is of a wondrous network, of arteries, veins, tendons, nerves and glands; the veffels are very small but numerous; and most part within the uterus are the glands. From the immediate contact in coitu, this part is liable to be the seat of the genorrhæa, and must of course be grievous. To the relaxed state of this mouth of the uterus, many ailments of imbecility, take their commencement; which ailments are seldom

properly understood.

On each fide of the uterus, are the ovaria; each of these is a cluster of small glands enveloped in their proper teguments, and likewise wrapt up in the broad ligament, or the process of the peritonaum. These ovaria may justly be considered as semale testicles; having spermatic vessels, coming from the aorta and the emulgents, and the veins returning back again to the vena cava, the same as in men. They are about half the size of the male testicles, and somewhat of an oval form. Their size varies according to the slower of youth, and condition of the subject; being always plumpest in a woman mature for generation, and withered away in old age.

Each ovarium has more or less, about twenty glands resembling little eggs; which are each about the bigness of a pea; containing a pellucid lymph like the white of an egg; which when boiled, coagulates, and has in every respect the same consistence. This is the true semale seed, of which we shall have an opportunity of saying

more in another place.

On each fide of the fundus of the womb go out two tubes, called from their discoverer Tubæ Fallopianæ. These are continuations of the vesiculous coat of the uterus, inveloped in the ligamenta lata, near the ovaria, which they fomewhat encompass, and have an immediate communication with them, by veffels from every egg, commonly called vafa deferentia. Each of these tubes is about three inches long, fomewhat curved; the entrance into the womb very finall, and entracted, fo as fcarce to admit a very fmall probe, grows wider towards the end, even to admit a little finger, and then contracts again. At the end it spreads into ragged flaps, and which are called the morfus diaboli; but how it came to be called the devil's bit, the inventor of that name can best account for. Fallopius compared it to the fpreading of a trumpet, and that it refembles fomewhat when injected, though very raggedly fo; its fimbria refemble much the indentation of the pink.

This member, among all the others ordained for generation, has afforded the speculative mind the most employment; but after all the learned and ingenious hypotheses given us, we are, alas! still in the dark. Yet it becomes us, as men, to communicate to each other, such opinions as

shall appear to us most reasonable; at the sametime however, it becomes us likewise, to do it with modesty and a just dissidence, suitable to the weakness of the soundation of our conjectures.

Ocular demonstration proves to us, that they are conveyers of the female feed into the uterus; fince the testes muliebres, or ovaria, have an immediate communication with them, and they again with the uterus. Their structure upon examination, and particularly on injection, appears of a reticular nature, and not unlike the cavernous body of the clitoris and that part which furrounds the pudendum: it is therefore reasonably conjectured, that they are swelled up and diffended in coitu: moreover, when a tube is injected, it is curved, even so, that the morfus diaboli is observed over the ovaria. Now, may it not be reasonably supposed, that that part, namely, the morfus diaboli, grafps the ovaria as with a hand, and thus fqueezes the femen muliebre, through the tube into the uterus at the crifis of coition? I cannot hold with those who maintain that the fœtus is formed in the tubes, and remains there sometime before it is fixed in the uterus; it feems to me inconfistent with the nature of gestation: On the contrary, I am fully perfuaded, that immediately upon conception, the intermixture of the two feeds, the male and female, adheres to the fundus of the uterus, and thus forms the placenta and fœtus in its different gradations. I will not deny, but that conception, and the femen virile have been found in subjects, who have died suddently either in fickness, or by the execution of the law: but quere, whether fuch a transposition may not be effected from the strong convulsions, which

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which always precede more or less sudden deaths and from which we often find things out of the natural course? this however, I can affirm, that I have had opportunities to observe very young embryos adhere to the uterus; and till I am convinced to the contrary by ocular demonstration, I shall believe that it was formed there from the first moment of conception. Opportunities of this nature seldom occur; but still seldomer are we allowed, or inclined to embrace them.

From the fundus of the uterus, go down the two round ligaments, one on each fide. They are broad at the fundus, but foon become round and fomewhat firm; they go down furrounded with the peritonæum through the foramen of the abdominal muscle in the groins, then spread their fibres, and end in the clitoris and its appendages.

As in men, the peritonæum furround the spermatic vessels, and carries them through the foramina of the oblique and transverse muscle of the abdomen into the scrotum, by which, they become subject to ruptures: so in women, the round ligaments taking the same course, make them liable to the same ailment in the groins; but not for frequently as men, and are more easily cured.

These ligaments consist of muscular and tendinous sibres, interwoven with arteries and veins, and are universally allowed to be supporters of the uterus. But here again, I must beg leave to make some observations, which I cannot find any auther has done, or taken notice of; and that is, on the manifold uses of these ligaments; not only to keep the uterus in its proper position at all times, but in time of coition, conception, gestation and parturition.

In time of coition the uterus is actually in motion; and just at the juncture of ejaculation (if both parties coincide) these ligaments draw the uterus downwards in order to receive the ejection of the male feed with more force. But in parturition, it must be obvious I think, to every judicious midwife, that great affiftance towards the exclusion of the fœtus is given by these ligaments (at least, fo it appears to me.) If this was properly taken notice of, and the pains gently favoured, instead of being violently forced, I am perfuaded it would be the faving of many a woman's life. We have a number of profound learned pieces of midwifery; how to use a number of very curious instruments; how to turn children, and extract them by piece meals. But with humble fubmission to these very learned and over wife men, it has been a bleffings of many womens, that they have lived too far distant, from having the assistance of these officious gentlemen, and their tools too. Many a worthy woman has been massacred, secundum artem, who if it had been their good fortune to have been poor, and of course must have depended upon kind nature's affiftance, might have been healthy mothers of a numerous offfpring .- Nature delights in ease and simplicity; and he is the most skilful, who has learned to be most subservient to her ways; he who thinks to control her by art, deceives himself and those who depend on his wifdom. But enough of this at present: I hope to clear this up to satisfaction, in a more pertinent subject.

The ligamenta rotunda, I look upon to be perfect muscles, and I cannot see how any one can doubt it; besides the uses I have already mentioned, I apprehend, they have a great share in hysteric passions. And from their spreading themselves in the clitoris, I am inclined to think, that these muscles, in the furor uterinus, are the most outrageous of all the uterine organs.

The uterus and all its appendages receive arteries and veins, partly from the aorta and vena cava, about where the spermatic vessels go off; and partly from the hypogastrics and hæmorrhoi-

dals.

Those arteries which spring from the aorta, go partly to the ovaria, and from the vasa preparantia the same as in men, though somewhat shorter; they surnish also, the tubæ sallopianæ with arteries, which are wound and convoluted in a most wonderful manner. And they partly spread themselves all about the uterus; send some into the ligament a rotunda; others proceed to the vagina; and some sew ramifications distribute themselves

all about the pudenda.

The branches from the aorta, which go to the ovaria and tubæ, are always of the same magnitude, and but small; but those which spread themselves in the uterus and vagina, are larger: but particularly those in the uterus, increase considerably in pregnancy, yet not so much as those we shall mention presently: the reason of which I conceive thus; because these arteries are intended for the support and nourishment of the organs themselves, whilst the other kind bring provision for the productions of gestation.

The hypogastric arteries however, spread themfelves, in greater number about the uterus and vagina, accompanied in a bifurcation with the veins, which in an unimpregnated uterus lose themselves, and become to all appearance fibres; but these apparent fibres become by gestation gradually arteries and veins, and diffend themselves both in length and width: hence it is accounted for, why the uterus will increase both in magnitude and thickness of substance, in the state of pregnancy: and after delivery, by the separation of the placenta, the mouth of these ramifications discharge and ooze out the lochia, and fo contract in their natural smallness and become apparently fibres again; and thus the uterus shrinks into its natural fmallness.

With the fore-mentioned arteries and veins are variously scattered and interwoven the hæmorrhoidals, and in a manner not to be met with any where elfe in anatomy, except in the mefentery; for arteries with arteries, and veins with veins, feem by anaftomofes perfectly to have a communication, though the latter are confiderably

fmaller and fewer than the former.

To these two kinds of vessels, namely the hypogastrics and hæmorrhoidals, we have undoubted authority to ascribe the catamenia; but which of them has the greatest share, is not yet determined: for my part, I am inclined to think the hæmorrhoidals have; but as my opinion on this head would perhaps lead me too far out of the road of this subject, to which it is rather immaterial, I shall indulge myself with this argument at a more feafonable opportunity. Suffice it, that from these vessels chiefly the fœtus receives its nourishment, from the first moment of conception; and from thefe, the menstrual discharges flow regularly in unimpregnated women.

The nerves, which spread themselves all about the parts now spoken of, take their rise for the

most

most part from the par vagum, and the cauda equina: the par vagum is very extensive indeed; and there is perhaps not a part in the bowels, but what receives a branch from this pair of nerves; hence it is no wonder, that there is so great a sympathy in the abdominal viscera, and particularly in the female sex. The horse-tail nerves were named so, doubtless, from their numerous ramisfications, which spring from the os sacrum; and hence we see the reason why women, particularly in time of pregnancy, and in parturition, complain so heavily at times of the loins.

From this description it plainly sollows, that the semale organs of generation, are not only of a more complicated construction, than those of men; but also from their peculiar delicacy and entirely different structure, are subject to ailments, which men, in regard to the sensation thereof,

must consequently be totally strangers to.

This confideration, will naturally inspire every reasonable man with a sense of tenderness, and compassion, for the many weaknesses, and complaints they labour under; at the same time, it will excite in his breast, an ardent desire, to aid and protect them, on all occasions, as the objects of his felicity; and tenderly preserve them as the plantations of mankind.

Here I shall end this chapter, and proceed to that, where I propose to draw the outlines of the most facred function of man, namely, the

propagation of his species.

H A P. III.

Of Generation.

MONGST all the innumerable benefac-A tions, which the great author of our existence has given us, in order to promote our felicity, that of generating our species, is furely the greatest, and is truly facred in itself. The bleffings fpringing from this fountain of happinefs, are not confined to the purchase of gold, to power, dominion, title, or honour. It brings mankind upon a level, and shews to all in common, the true distinction betwixt the substance and the shade, of what they are in pursuit of; namely, to be happy. It is the tender nurse of the celestial plants, love and friendship; the plants of all other virtues which most ornament the human breaft, and make us happy !

Let us seriously propose these three questions to ourselves: For what end are we born? How long may we expect to live? And how shall we best employ that time to our advantage? There is nothing fo mysterious in these questions, but what conscience (that divine monitor) which is ingrafted in every man's heart, will be capable to answer, without the aid of any one. Perhaps I shall be censured by some, for wandering from my subject; be it so; I say in my defence, those are far more blameable, who despise, and act in opposition to these reslections, which are dictated

by nature to all mankind.

The

The word generation is very extensive in itself; since every corporeal being has its existence by that act: And which again one time or other, according to the prescribed period, degenerates; or, in other words, (which is the same theory in sact) is created and annihilated: but not in the sense of something to nothing, or nothing to something; but the act of transposing corpuscles, from one corporal being, into another: For whilst we reason as naturalists, we must have a something for our soundation, and give up all chimerical nothings, for the benefit of labour-invain metaphysics.

The generation of the human species, the noblest of all, we shall here endeavour to give some faint outlines of: to which the principal, and the

first of our examination, is the male feed.

The femen virile is a femi-transparent, greyish white, and somewhat coagulated liquid; which is by means of the spermatic vessels, and the testicles, separated from the blood, and from the testicles carried to the vesiculæ seminales, where it

is kept for use.

As men of learning ever had, and ever will have, fomething to differ about, so this, as a principal object, could not of course escape their disputes: However, there was no one dreamt about this liquid being animals, till the ingenious Mr. Leevenhock gained the reputation of discovering little tadpoles in the seed, by the help of a microscope; which notion was so far improved by him and his followers, that they gradually discovered these animalcula, to be actual man in miniature; nay more amazing, they pretended to distinguish the different sexes too. This puts me

E 2

mind of a little fable applicable to this, which I have met with somewhere, and shall beg leave

here to infert.

A fox, who was a young aftronomer, once obferving the moon, exclaimed in an extafy, that he actually faw there a ship under full fail; at which the generallity of beafts fet up a loud laugh, (particularly the afs) at the observer's expence; but an old elephant, renown'd for his fagacity, who as foon as he could be heard, adressed them gravely; gentlemen, faid he, you are rather too hafty in your censure: I myself see something in the moon, though I know not precifely what to make of it; but the fox's eyes are younger than mine, consequently may see keener: You had better look again, gentlemen, perhaps he is just enough, it may be a thip for ought we know. They took the alarm, and all flared up eagerly at the moon; The doubts now vanished, and one saw the ship plainer than the other. At length the mole came forth, and giving a peep, declared, that he not only faw the ship, masts, sails, and rigging, as plain as at noon-day, but even faw distinctly too, that the man at the helm had a short pipe in his mouth; by which he was fure therefore, it must be a Dutchman.

But to make this notion more extravagant, I present the readers with a true poetical description

of this fanciful doctrine, from Baker.

Each feed includes a plant; that plant again Has other feeds, which other plants contain: Those other plants have all their feeds, and those More plants again, successivly enclose.

Thus every fingle berry, that we find, Has really in itself whole forests of its kind;

Empire

Empire and wealth, one acorn may dispense, By fleets to fail a thousand ages hence.

Each myrtle feed includes a thousand groves,
Where future bards may warble forth their loves.
So Adam's loins, contain'd his large posterity,
All people that have been, and all that e'er
shall be.

Amazing thought! what mortal can conceive, Such wond'rous smallness!—yet we must believe, What reason tells; for reason's piercing eye, Discerns those truths our senses can't deny.

I will not now detain the reader with contradicting these pretty extravagancies of sancy; those who are peculiarly fond of the marvellous, havemy consent to believe them: I will therefore proceed immediately to the formation of the seed, and its peculiar qualities; and examine wherein it differs from the rest of the humours secreted in the body.

The organs for fecreting the femen virile, has been described in the first chapter, which should be remembered, in order to form some idea of their action. First then, the spermatic arteries receive the blood from the aorta, and from the emulgent arteries, and carry it down to the tefficles for fecretion: These vessels are narrower at the places where they go off, than elfewhere; because the blood should go but slowly in them. When they come down to the varicofum, the fecretion begins, the fubtiler parts of the blood penetrate into the contorted windings of the tubulæ in the testicles, whilst the grosser parts are taken up by the spermatic veins, and carried back to the blood again. Whilst it is in the testicles it seems almost stagnated, and there it receives its greyish hue:

E 3 However

However it creeps flowly from thence through the ductus highmorianus, and epididimidas, where it is still farther prepared; and when it has gone through the whole testicles, it rises slowly in the vasa deferentia; (which passes partly through the prostate) and at length gathers by little and little, into the vesiculæ seminales, where it is kept in its mature state for use.

That it receives some farther concoction towards its perfection, from the prostate, is undeniable; in what it consists however, I own myself wholly ignorant: But I believe, that all these organs, the spermatic vessels, the testicles, the deferentia, the prostate, and the vesiculæ seminales, contribute

towards the fertility of it.

Of all fecretions in the animal economy, there are none fo elaborate as this; and we may justly add, none more delicate: But still, fetting afide all forced fancy, and copied notions, the feed is nothing more than a humour, like every other fecretion, gathered fresh and fresh, as it is wanted. As for the notion of animalcula, I think it highly abfurd. I do not deny the exiftence of animalcula in the human body, far from it; for in pediculous aposthumes, I have feen that vermin follow the incifion lancet in large clusters; and I make no doubt, but that most cutaneous eruptions, and many other difeafes, abound in animalcula; nay, fome perhaps, confift of nothing elfe: But for the very fame reason, I deny their existence in the feed, blood, and all other animal fluids, whilft in a found state, and in a living subject. Whosoever has observed nature, will find, that animalcula take their their existence from corruption only; that is, the one is created, at the annihilation of the other.

The limits I have prescribed myself for this subject, will not admit of a consutation of every chimerical conjecture said in savour of that absurd doctrine; nor do I think it needful; since the sollowing will easily prove, there is no such animal-cula required for generation; and that animalation (if I may be allowed such a term) together with animation of the sectus, may be conceived in a much more easy and more rational manner,

when put in comparison with vegetation.

It is immaterial, I apprehend, how much falt, how much oil, &c. the male feed will yield by a chymical analysis: These are trisling experiments; and I question much, whether there be any difference in this, or the same quantity of any other lymphatic fecretion. But, our enquiries must be of another nature; for chymistry is loft in tracing the animal economy, and has been the ignis fatuus of many a grave doctor, and too often at the expence of the patient. We must in the first place observe, that when we have an opportunity of examining the feed, it has loft the power by which it acts. We have before observed its colour and fubstance, but this is no true criterion; for it may have quite different qualities when injected in the uterus; (viz.) be quite transparent, and of a very volatile liquidity; add to this, a fubtile animal and nervous spirit, by the inteftine motion of which, in conjunction with the female feed, it strikes root in the uterus; and from that moment begins to sprout out, grows, and gathers its nutriment from the uterus, (formed for that function) till its periodical maturity, and then drops off: This animalation may perhaps be fomewhat fimilar to the vegetation per-

formed by inoculation of plants.

Fluids appear, and are in fact, quite different, from what they are when out of the animal, in circulation; for in the latter case, they may with the greatest propriety be deemed actually alive, and have positively, (in my opinion) a share of sensation: This is not at all suprising, when we duly consider the near relation between solids and sluids, in the animal economy: And who will deny that life itself is included in the blood? that is to say, that the action or stagnation of one,

is the action or flagnation of the other.

The axungia, fat, blood, feed, and other humours, are actually liquified in the body; nay even perfectly transparent too; but the moment they take air, they alter, and die, before the wifest of us can make any thing of them. There will indeed appear filaments from the quick coagulation; and these may appear as much like tadpoles or any other strange animal, as the spots in the moon may appear like a ship: But if they needs must be alive; then, a day or two in the summer season, and open air, keeping them liquisied, will make diversion for the eyes, and the nose too; and we shall then be convinced, that each state of putrefaction will have its peculiar species of animalcula, or even animals.

The feed differs much in different habits; and even varies greatly in one and the same subject, according to the state the body is in. Agreeable to the natural course, it is plentifullest after the commencement of puberty, most vigorous at

thirty,

thirty, and least and weakest in old age: but there are circumstances, whereby this may be quite otherwife.

In the general run of nature, vigour in generation, is the furest mark of health; and when the body is out of forts, the organs of generation fail for the most part the first of any; yet in this

there are some exceptions, though but few.

There is nothing will enfeeble a man fo much as an obstinate gleet; and the younger the patient is, the more there is to be feared, and the more difficult to be cured; because, too, often there is a latent vice at the bottom, which nature has taught all men to be ashamed of, and therefore not only with the greatest reluctance confessed, but even then, too much fecretly practifed, at the expence both of peace of mind and of health. But of this, more at another time. In this state the feed is thin, and of a bluish cast; because it is secreted in too great plenty, and wants concoction to give

it confistence and vigour.

In the beginning of the first symptom of a virulent gonorrhæa, the patient is greatly stimulated to venery, and will fometimes have nocturnal emissions, even profusely so; in that state the feed will have a remarkably yellow hue, even fo as to stain the linen: If he is plagued with a chordee, this is generally oftener repeated than he likes it should; which adds not a little to his pain, and will often make him take particular notice of the heat it occasions: This feed differs greatly from the former, because the first proceeds from weakness, while this is from an acrid stimulus; and I hold them both impotent; the first from want of proper concoction, and the last from the fire and

the virus that must be contained in it; though it should proceed from no other effects, than by the virus it must have washed away from the urethra whilst it was ejected. We have, however, instances of conceptions in both these blemishes; the result however is too obvious.

The best semen, and from which we may expect a good healthy offspring, (if planted in good ground) is that which is at least twenty-sour hours in collecting in a found man; who has not abused his constitution in repeated debaucheries of any kind, and which must be ejaculated with fer-

vency, love and pleafure.

The female feed differs fomething from that of the male; and that particularly which we properly distinguish by the name of seed, is less in proportion than that of the male. Namely the feed oozed out from the ovaria, through the tubæ fallopianæ into the uterus. This is of a clear tranfparent lymphatic confistence, much like the white of an egg, and will, when put near the fire, or boiled, coagulate in the fame manner. This examination has led philosophers aftray; for from thence they have concluded, that the ovaria, fince they refembled eggs, must be actual eggs; and must be impregnated the same as in the oviparous But the grand difficulty is, how these eggs should come into the tubæ fallopianæ; fince from the whole cluster we find but fmall tubulæ, which go from every egg to the tube.

However there is one observation, I think will clear this up without much difficulty; and that is, in old women, who have had many children, we find these eggs, equally as numerous as in young women, who have had no children at all; with

this

withered away, and in the latter they are plump. It is true they refemble eggs, but then these eggs are actually glands, and are sastened between two strings, by which they are incapable to move either forwards or backwards: For one way they are sastened to the spermatic vessels, from whence they receive, or secrete their contents; and the other way, they are sastened to the descretia, or small vessels, which open themselves exceedingly narrow in the sallopian tube: Add to this, they adhere to the tegument which contains them; so that without breaking and laceration, they could not be separated; and then, how are they to come into the tube where there is no opening for them?

Nature deals neither in mischief nor witchcraft; and all these things could not be effected without either the one or the other: We shall therefore conceive the act of conception in an easier way, which I hope will appear more compatible with reason, and clearer to the under-

itanding.

We now come to the grand act of nature, coition; that function, in which nature has levelled the whole animal creation, in rendering the propagating of their species pleasing; however with this difference, that to all, except man, she has prescribed periods of defire; but man, as a rational being, she has left at full liberty to exercise these blissful moments with discretion.

As long as that liberty is not wilfully abused, so long is it agreeable to the laws of God and man; but the moment it is perverted into debauchery, the abuser sinks beneath the level of

a brute; and remorfe, disease, and self contempt,

become the fruits of his labour.

Love is engrafted by nature in the human breast, the mother plant of every other virtue, by which we are rendered pleasing to God, happy in ourselves, and useful members to society. It is by this celestial fire the sexes beget an ardent desire to give and receive something essentially pleasing; which creates in them an idea of selicity, not to be described, nor to be compared, to any thing, except to heaven itself. If the love is pure, the bliss is the greatest man can wish for: But beware, O youth, beware! let this noble passion be guided by reason, less it should hurry thee headlong into lust; for, if that be thy missortune, farewel to love, and every other social virtue; thou art ruined for ever!

Sacred instinct, first kindles this æthereal fire: And when that pair meet, whose inclinations come in unison, they proclaim to each other, with palpitating endearments, that there is a secret anxiety for becoming united into one. If this is not repugnant to the laws of chastity, and agreeable to the laws of nations, there now remains nothing but the embrace to complete their felicity, agreeable to the dictates of instinct.

If this is concluded and the period arrives, nature then prepares; and the ideas center in this act only: the blood increases in velocity; and like the attractive power of magnetism, they ce-

ment as they approach in contact.

The members of generation, by the influx of the animal spirit, are eager to unite: The erectores penis contract themselves, and draw the penis nearer the os pubis, and those with the transversales. transversales, and the accelerator, help to compress the vena ipsius penis, whereby the blood is hindered a reflux, and thus is forced into the corpus cavernosum urethræ, and corpora cavernosa penis; whereby the member becomes erect.

In the same manner (if there is no intimidation) the musculi erectores clitoridis, contract the vena ipsius clitoridis, whereby the blood is forced into the cavernosities of that, and the crura, all round the pudendum; whereby the parts agreeably swell, and acquire a florid colour; the muscular part of the crura round the vagina, and the alæ, become in an obscure alternate motion, which is communicated to the vagina; whereby the lacunar glands are squeezed, and lubricate with a soft mucous humour the whole

pudendum.

When the glans reaches the entrance of the vagina, the carunculæ myrtyformes gently give way; and by the mucus pressed from the lacuna, the penis becomes lubricated, by which, for the most part, it soon gains its way. The sense of this is exquifite, and fets as it were the whole muscular fabric in agitation, almost involuntarily. The fartorius, pectineus, vastus externus, vastus internus, rectus femoris, the rectus and obliquis abdominis, &c. act in confort, and in opposition with, and to the latisfimus dorsi, glutæus, biceps femoris, gastrocnemius, &c. in order to agitate the penis to friction. This is greatly affifted on the woman's fide, by obscure motions of the same nature: But in particular, it is heightened by the vagina, the alæ, and whole pudendum; the labia being swelled up, foftly compresses the penis, as do also the alæ; but in particular the vagina, being titillated by the friction, contracts and dilates agreeably, by which the pleasure greatly encreases to both parties. In the mean time the clitoris partakes not a little of this pleasing sensation; communicates the tickling to the rotunda, which by the alternate motion sets the uterus, the fallopian tubes, and the ovaria also in action. The whole together with the abdominal muscles seem to be in a constriction: The fallopian tubes are (as we may say)erect or distended with blood, and are bent in a curve, so that the morsus diaboli are as

it were, grafping the ovaria.

The action now begins its crifis; the penis swells somewhat suddenly, and the vibrating motions become quick, strong, and almost spassmodic; this encreases the sensations of the semale organs; both move together with rapture, the parties sink into extasy, and the cjaculation takes place. The muscles of the penis, the sphincer urinaria, the sphincer ani, and particularly the vesiculæ seminales, receive a sudden spassmodic contraction; and which is partly communicated to all the forementioned muscles: by this constriction the seed is injected with considerable velocity into the uterus, where it is received with a kind of suction, which adds not a little to this force.

In the moment of ejaculation the uterus is drawn strongly downwards by the ligamenta rotunda, the mouth of the uterus opens, whilst the vagina constricts; the morsus diaboli squeeze forcibly the ovaria, which by their small vasa yield the semale seed into the tubes, from whence it is somewhat forcibly injected along with, and

to the male feed in the uterus; and thus instan-

taneously cohere as a conception.

When this moment of extafy is ended, the parties wake up as from a trance, and feem to be finothered in blifs, The muscles now slacken, the veins which just before were distended, with rarified blood, contract; the membrum virile becomes flaccid, the scrotum contracts itself, and the whole body feels a sensation of lassitude, accompanied with a satiety, perhaps, not unlike that we feel after a good dinner, when the finest sauce has lost for a while its savour. The semale after such a successful coition, (where a conception is the result) generally seels a gentle chill, and that from the same consequences, though in many respects, in a more forcible manner.

I shall finally proceed to the different periods prescribed for man by nature, for his entering into the world: The lines of this, the reader must expect to be but very faint indeed; yet I hope satisfactory, considering the space I have limited for it.

We will then in the first place suppose, that the semale has conceived. Here begins the first rudiments of man.

I have somewhere before given my opinion in that mysterious sunction of nature, but must here add; that the colateral officula of the hypogastrics and hæmorhoidals, probably are the channels in which the semen virile, envelloped with the semen muliebre, strikes root: And this I shall take for granted; for as to its entering the tubæ sallopianæ, I think it as absurd as the animalcula. Admit then, that this is the case, (for reason

reason will not dictate to me any other,) we will then conceive, that the semen masculinum, is by a momentary pulsive transportation removed from the vesiculæ seminales, whilst yet animated by its own peculiar intestine motion, into the uterus, and instantaneously received by the above ofticula; and from that moment commences its anostomasation with these vessels; and receives by them a conjunction of circulation with the whole animal œconomy.

Now plastic nature begins to mould; first by tender sibres to form the chorion which surrounds the whole; and from the root or placenta, sprouts out the young zoophyte; sirst, the umbilical suniculus; the little something at the end, gradually becomes the brains, the medulla oblongata; and next the viscera, very obscurely. The whole for the first month, is not perhaps of two drachms weight. Hence we may learn, that very probably, the first drop of the semen in ejaculation, is sufficient.

The inoculated animal bud, farther continues its animalation; the eyes, the mouth, and nof-trils, make their appearance, and the whole body (not near fo big as the head) begins to form, and shew the difference of the fex; at length the arms and legs, sprout out of the trunk like little branches, and gradually the little zoophyte becomes animated.

This is the first period of existence; from the moment of conception, till some time between the third and sourth month; and till it is animated it is called an embryo. In this time the woman is altered strangely, and feels herself a different kind of being; she has no menses, she is frequently

frequently troubled with nausea, especially in the morning; and her ideas become more than ordinarily fanciful and remarkably timorous. It is then she is the touchstone of affection, and the object of care, of her guardian friend and protector.

From this time the fœtus discovers life; and this is called quickning. The fœtus has now actually commenced a circulation, its little heart is put in motion, and there is a rotation of its own animal fluids; it grows a-pace, not only in bulk, but also in due proportion: Towards the feventh month it gets nails and hair; grows remarkably lively; at length becomes restless; and

feems discontented with its confinement.

This is the fecond state; and our human plant is now animated with a foul, or life. The mother, now feels fomewhat more lively; the thrives tenfibly; and her appearance, commands, not only the innate love and effection of her protecting friend, but also the respect and aid, of all who behold her. In the eighth, and towards the ninth month, the becomes at times anxious, and her dear pledge of love, becomes gradually a burden. At length nature proclaims to her to prepare for a change in her fituation. The fœtus finks gradually lower in the pelvis; the pudendum becomes fomewhat gently tumefied; the os internum gradually opens, and becomes fenfibly foft and lubricated; the vagina becomes more than ordinarily mucilated.

The organs then make preparation for an exclusion, and at length the critical moment arrives, to the relief of the little stranger, and its happy mother. The groins, the loins, and the os uteri, have intermitting sensations of pain; but in a manner, so as to summon all the muscular fabric to their aid. The pains increase and become quicker; the os facrum, coxygis, and pubis, greatly partake of the pain with each other; the ligamenta rotunda contract together, with the uterus; the throws increase; the chorion and amnia break; and now the stranger works for his liberty, with the strongest part about him, his head. At length a strong effort excludes him, and gives his mother such a moment of happiness, in the delivery, which can only be judged by those, who have felt the preceding excruciating pain.

Thus we are launched into life; the garden of good and evil, wisdom and folly, virtue and vice, happiness and misery. And just, when we begin to learn in the school of experience, the true estimate of human life, alas! we fink into

the grave.

PART II.

ON

The Origin, Formation, Nature, Infection, and Progress

OF

The VENEREAL DISEASE in General.

In the first part of this work, we have examined the organs of generation, of both sexes, in their natural state; as also, their functions, as ordained by the author of our being: This was absolutely requisite, in order to understand a disease, or rather, a train of diseases, which are the fruits of the abuse of these organs.

It is faid, that knowing a disease is half the cure; which is partly true; at least it is rational to enquire into a malady, before we attempt to remedy it: To do this therefore, is my design in this part; and which I intend to pursue, by dint of reason and experience only, and by an impartial and unprejudiced enquiry.

CHAP.

CHAPI.

On the Origin of the Venereal Disease.

HERE is perhaps no ailment incident to the human species, that has caused so much altercation amongst modern physicians, as the Origin of the Venereal Difease: And yet, if we give ourselves a little time to reflect, and dare think for ourfelves, I believe, we shall not find it

fo difficult a question to folve.

In all ages, men have been led away into the greatest absurdities, either from a too easy compliance with the opinion of others; or elfe, from fome flighty conjecture, which they have been determined, obstinately to maintain, because they have once advanced it. And this pride has been the univerfal disturber of harmony, as well amongst divines, as philosophers in general; though these sages have most exclaimed against that weakness of human nature.

Of all ambition, that of being thought learned, has proved the greatest ignis fatuus, of real knowledge; for it has driven fometimes, even men of abilities, to fuch lengths, as must have made them blush at their own doctrine: Yet so great is the dread of being thought in the wrong, that even at the expence of integrity, they have perfifted in

the support of their errors.

It is not my intention to descend to personal criticism; for I wish to be in friendship with all mankind,

mankind, as a true philanthrop: At the fame time, I must beg leave to observe, that I cannot simply comply with the opinion of any one, unless it coincides with my own judgment. I am in search of truth, and wish to embrace it, where-

ever I shall be so happy as to find it.

The question is, whether the venereal disease, is ancient or modern? It is strange, that this question, which in sact, is of little signification to the patient's recovery, should have caused amongst the sons of Æsculapius, so much altercation; even, so as to descend to opprobious language, and personal abuse: But, whilst they were eagerly engaged to support their arguments, by playing upon words, they became diverted from the subject itself. However, as the result of unprejudiced speculation, and conclusions drawn from experience, I venture to affert, that the veneral disease, is as old as the vice of promis-

cuous copulation.

Every state, as it has arrived at popularity, has also sunk more or less into debauchery; and nothing has contributed more to their ruin, than this very vice. As the children of Israel increased, so likewise, they grew in vice; and as they became more vicious, they also began to be loaded with the foulest diseases. Whoever reads the books of Moses, cannot reasonably doubt, but that there must have been the most criminal vices amonst them, and in consequence, horrid evils: for else, why should there have been a necessity of providing the requisite laws and regulations of that kind? If we impartially examine the different kinds of leprosies, boils, rotten bones, &c. described in the various parts of the bible, we shall find their commence-

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ment, progress, and symptoms, in many respects, exactly corresponding with those of the con-

firmed lues venerea.

The names of gonorrhæa, phymoses, paraphymoses, &c. are of Greek extraction; and what shocking diseases of that kind, do we not read of, amongst them and the Egyptians? And when the Romans funk into lasciviousness, they fared no better; though their baths were for a long time a great preservative to them. But we need not go out of London, to prove this difease, at least more ancient, than the importation from the West. Indies: In the ancient records of 1375. and 1390. we find that public stews and brothels of common wenches, (after the Italian custom) were publickly tolerated, under certain regulations, in Southwark; and we find amongst the many regulations made, that fuch wenches as had the burning, were to be separated from the rest, and forbid to lie with any man, whilst she had it: Similar to the regulations in the flews at Avignon, in Italy, ordered by the good queen Jane, 1347.

Some authors have laboured very hard, to prove, that none of the difeases, now mentioned, were venereal; but the more they have laboured, to overthrow, the more they have confirmed the very opinion which they have opposed: For after all, they were obliged to acknowledge, that they were diseases, proceeding from debaucheries; and that their confequences were at times equally bad, as those of the modern infection; and

now let me ask, where is the difference?

I have no manner of objection, to allow that the Spaniards brought it over from the West-Indies,

in their return with Columbus; neither, that the malady was then, and is perhaps still very frequent amongst the Indians: If these blood-thirsty robbers, had kept it to themselves, and perished thereby, it would have been a punishment, scarce adequate, to the unheard of barbarity, which they exercised on that poor race of people. And admit they brought it over; I am even in that case inclined to think, that these vagabonds traffick'd only with the Indians in that kind of

commodity.

Other authors will have it brought from the Coast of Guinea, and that it owes its origin to the yaws: I grant this too; nay, I'll even go so far as to say, that the yaws is frequently the real venereal disease; and differs in nothing, but in the species of people, and in the manner, in which it is contracted. I think, there is nothing confirms more a relation between diseases, than that the same method will cure them: If this be the case, then I say the Yaws, the Venereal Disease, and the ancient Leprosy, have for the most part one nature; and only differ in the various names, and the manner of their being contracted.

But how came it to be supposed of French extraction? To answer this, I shall here beg leave to give a short detail of the rise of this salse alarm; and then proceed to the more material causes of the disease itself.

Christopher Columbus, set sail from Spain with three ships, and an hundred and twenty men, on the third of August, 1492. and arrived the sixth of December the same year, at the island then Hispaniola, now St. Domingo: He

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there built a garrison; left thirty eight of his men; fet sail again for Spain the 6th of January, 1493; and after much satigue, arrived on the coast of Spain, the 6th of March the same year, with eighty two of his men, and nine Indians.

His fuccess made him welcome to the king and queen of Spain: In consequence of which he set out again, the second time, on the 5th of September following, with seventeen ships, and sisteen hundred men; and arrived in the West-Indies,

the 27th of November the same year.

Now the thirst of gold intoxicated and converted those adventurers into very devils; they were not satisfied with plunder only, but wantonly invented unheard of tortures, for the poor objects of their barbarity: lust blackened their cruelty; bands of these villains would satisfy their lascivious appetites, upon one poor semale victim, and then let their dogs tear her to pieces! By these diabolical practices, was it possible to escape infection?

The following year Columbus fent fourteen ships

back again to Spain, richly laden.

At their return, all Spain was agitated with the news of their fuccess: The bawdy houses became filled with that laseivious crew; and nothing was talked of but gold from the new world, and the number of Indian insidels massacred. From this time, thips were fent to the West-Indies, every month; a continual intercourse between the two remote parts took place; and history tells us, that at every return, the ships were loaded with riches, and the men with the venereal disease.

About this time, there were disturbances in Naples; Ferdinand, king of Spain, sent privately forces thither, in which were many of the veterans, who had been in America; Charles VIII. then king of France, urging an hereditary right in Naples, fent forces also, to recover his claim. An open rupture, between France and Spain then broke out; and the French, who at first seemed successful, and for some time had possession of various places, were at length worsted, and compelled precipitately to retire: Naples was the seat of war; and their profitutes were obliged to be alternately common to both.

It was at the end of the year 1496, when the French army came home, and was found greatly injured by the venereal difease: This gave the first universal alarm in Paris; and the doctors, to shake off a slander of ignorance, gave it out as a new plague, of a peculiar nature, contracted by

coition.

This notion being taken for granted, a decree of parliament was immediately iffued out, and proclaimed by found of trumpet, throughout the streets of Paris, concerning the new plague, which they called the great pox; (viz.) That ail strangers who were in the least infected, should retire from Paris within twenty-four hours, on pain of death; that hospitals were erected, to receive all the infected belonging to Paris; and where every body was immediately to go, on pain of death. Taxes were raised for the support of, and officers created for regulating these hospitals, &c. &c.

This builte and noise gave the alarm all over Europe; nothing was talked of but the French pox; and every body shun'd a Frenchman, for fear of being insected by him; even so, that at fome places in Germany, they were forbid the territories. Soon however, this plague, of the great pox, was observed in its various degrees, in all parts, even the remotest from France and Spain: notwithstanding which, it had acquired the name of French disease, and that nation bore the blame only.

The French being piqued, at last, at the odium thrown on them, of being the propagators, of this filthy disease, endeavoured to shake it off, by tracing it back to Naples; and called it in their turn, the Neapolitan Disease: But the Neapolitans again, laid it to the Spaniards; and the Spaniards

upon the Indians.

At that time of rumour, it became fathionable for doctors, of all perfuafions, to speculate, but more on the first origin of this wonderful plague, than how to remedy it: all who could fet pen to paper, wrote in fearch of the mystery of this affair; Aftrologers traced it from some strange conjunction of peculiar stars; divines from the vengeance of God; philosophers from the foulness of the air; historians from canibals, or the eating of some peculiar animal by the Indians, &c. &c. However, gradually they began to be ashamed of their neglect, in the cure; and at length, unaffimoufly agreed on a method, which they were pleased to call rational; though unfortunately for the poor patients, it happened to prove irrational; for it made the evil worfe, process of time, they came nearer and nearer the true method; and mercury was at last found by experience, the only specific to be depended on.

Amongst the many idle conjectures, concerning the first origin of this disease, that of the sting

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of a scorpion, seems to carry some share of plaufibility with it: When a person is stung by a scorpion, the first symptoms (it is faid) are, that the patient breaths nothing but rage and lust: Coition gives him immediate ease; but the woman with whom he copulates, becomes greatly injured, and will injure others again: I cannot aver this for fact, having not come in the course of my practice; yet, when we consider, the furprifing effects of a tarantula, and the bite of a mad dog, it will not appear fo very strange.—I remember being once in company with a mafter of a thip, then returned from the bay of Honduras; who affured me, he had an infallible and experienced remedy against the fling of the fcorpion; which on request he honeftly related to me, (viz.) that the touch of the glans of the penis would inflantaneously draw out the poison, without the least ill effect to that member, whether it was done by the patient himself, or, in case the place stung, rendered this impracticable, performed by another. This he affirmed to have perfonally experienced.

With regard to this disease taking its origin from eating the guana, an animal of the lizard kind, common in the West-Indies, I can see no other sense, than that the slesh of all carnivorous animals, are unwholsome food; the hog not excepted: Which I am apt to think, was chiefly the reason, why Moses prohibited all carnivorous food to the Israelites; and why it is reckoned unclean in most countries. And as to the canibals, I reckon that equally sictitious,

with all other idle conjectures.

I will not detain the reader any longer with notions, which I have fo very little faith in myfelf; but proceed to fuch causes, as are built

upon experience and reafon.

In the first place then, I will refer the reader to the bible, Leviticus the 13th, 15th, and 20th chapters, and the 5th of Numbers: Where it appears evidently, that the children of Ifrael, have not only been a lascivious and debauched tribe, but, that from these irregularities, they became loaded with the most shocking diseases: It appears evident likewife, from the many wholesome laws, and regulations in these disorders, that uncleanness, and promiscuous venery gave rife to it. And that this is actually the case, I think must appear very plain, to every impartial observer.

The catamenia in women, (though in the found state) is nothing remarkably different from pure blood itself; yet from its being liable to become acrimonious and tharp, it has attracted the obfervation of phyficians, and naturalists, in all ages. I shall only beg leave to quote a paragraph from the great Pliny; in his feventh book of his natural history, chap. 13. "There are " few things more furprifing (fays he) than the " monthly discharge of women; At their ap-" proach, new wines grow four; grain touched by them, becomes barren; grafs dies, young " fprouts wither, and fruits fall off the trees on " which they grow; the luftre of mirrors grows " dull upon their viewing them, feel lofes its " edge, and ivory its polish; the bees die in " whole hives, brafs and iron immediately ruft,

" and the air is foetid. Upon taffing it, dogs " grow " grow mad, and their bite is infected with an incurable poison. Nay farther, the bitumen fwimming at a certain season in the Indian lake, called Aspaltitis, which otherwise is gentle and pliable in its nature, can only be feparated by means of a thread dipped in that poison. Even that very small animal, the ant, they say is sensible of its effects; throws away the grain after tasting it, and will have no more to do with it."

This description is certainly very extravagant; but, if we consider the climate where he formed these notions, and particularly, if the woman was of an acrimonious habit of body, we shall find sundry particulars of it to be strictly true; though from other causes than he seems to have understood.

Women differ greatly in this respect; and the menstrual discharges will have different qualities in the same subject; so, as at times, not only to be highly offensive, but even to have a corroding

and poisonous effect.

I need not mention the many difagreeable confequences attending an uncleanly woman; and I believe, few will contradict, that a common whore in general is fo. All women are fubject more or less to the fluor albus; but prostitutes most so. Now, need we wonder, that in the time when such a discharge is upon her, and copulated by a variety of men, some larger, and some more tedious, or violent than others, that the vagina should become inflamed, the lacunæ strained, and the mucus oozing out from them, together with a pussy discharge of the sluor albus, become

become sharp and acrimonious; and is this not

enough to generate a venereal virus?

Some have added the intermixture of the different feeds; though this, may contribute, yet I believe, they retain but very little of it. I think we may here venture to compare fuch lafciviousness to a bitch, and a parcel of dogs; and there we fee the same effects. For that dogs will have a gonorrhæa, has been frequently taken notice of; and that it will sometimes make them scabby, or even mad, has been affirmed frequently upon strict observation: Though they often perform wonders with that universal healer,

their tongue.

There are two kinds of animal corruptions of humours; the first is, when a corruption is in a living fubject, and the fecond, in a dead, or cadaverous: but the first differs evidently from the latter, and this is confirmed by experience; (viz) that the ichor from a phagedænic ulcer, or from a sphacelus, is not only more offensive in fmell, but sharper than any thing from the most putrid cadaver: But this is not all; there is a particular effluvia, or volatility, which has a peculiar propenfity to infection; this effect however it loses more or less, as soon as separated from a body indued with circulation. Now this holds good in the venereal difease, and all infectious distempers (which we shall have occafion farther to illustrate.)

This infectious acrimony, is not unlike leaven or yeast, which will, as it were, set the whole mass of blood in a ferment, and generate more of its own kind, and so, ad infinitum, whereever

it finds a proper matter to work upon.

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When we confider the furprifing phænomenon in a dog becoming mad, without the actual infection from the bite of another, but from some other cause or disorder within himself; and then, from that very malady, an infection may be spread, ad infinitum; I think we may easily be convinced, that a venereal disease may be kindled by debauchery only. However, this is no conjecture; but a fact supported by actual experience.

It is a custom too frequent among the honest tars, to go in parties to a prostitute, (particularly in places where there are but sew of them) to have a bit of fresh meat as they term it. Jack will next come to the doctor, and damn the whore's eyes and limbs, that she has given him the glim: But can't think as how Frank and Tom should escape, as they both boarded her before him. In like manner, when a siren is let loose amongst a parcel of good stomachs, either on board a man of war, or in a camp; though she at first appears ever so dainty and clean a bit, she will soon prove a fire-ship.

This has come under my observation frequently: and I am persuaded, that surgeons, who have had much practice in that disease, must (if they will lay all prejudice and conjecture aside) have met instances, from whence they could not

but draw conclusions of the fame nature.

This was the opinion likewise of the ancients, before the false alarm: though they were certainly less acquainted with the disorder than we are: And if we carefully examine the progress (laying all prejudice aside I say again) of the ancient leprosy, and the different symptoms, under

which it is described, we shall plainly be convinced they proceeded from the same causes; and were the very same degrees of a malady, which

is now understood by a confirmed lues.

However, in this last observation, I think it requisite to make an exception; I do not mean that all leprosies related to us, actually took their rise from venery; but that the various species were consounded with one another: and the

fame diffinction will ever hold good.

There are disorders which take their rise from chronical humours, (if I may so express myself) which will increase, if not prevented, and at length take on an aspect of a confirmed lues: from which it differs very little, except in the different method by which it was contracted. This we shall find verified among the indigent; particularly vagabonds; who frequently are as filthy in their ways, as they are miserable and irregular in their living: from whence they often become itchy, fcabby, full of flinking ulcers, and exhibit at times, objects of horror. There is hardly a nation exempt from these examples: But filthiness was always a characteristic of the Jews; especially among the lower class, where actually, vermin feed upon vermin.

Among these promiscuous kinds of disorders, which have one aspect, and much the same nature, though their first causes are different, we may with propriety reckon the yaws amongst the negroes. We know very little of Africa beyond the coasts; however somewhat up from the shore, they are certainly a horrid race; and it is now actually beyond all doubt, that they are in many places real canibals; and abound in shocking diseases,

diseases, as well from abuse of venery, as other savage absurdities and irregularities. Notwithstanding this, it is well known, that the yaws has been contracted amongst negroes in the West-Indian plantations, without a previous infection

from their native country.

The yaws has baffled the West-India doctors very much; but this could fcarce be otherwise, fince they rather indicated their method of cure, according to the name of the diforder, than the nature thereof; and at last, when they have tortured the poor wretches in vain, they have pronounced them incurable, and turned them adrift upon fome defolate ifland; where kind nature fometimes has restored them to perfect health again. Hence arose another absurdity; namely, that fome of these small islands had a peculiar charm, or fomething unknown, for curing the yaws. Now these diseases, (as I have observed) may be venereal or not; if the genitals are infected, as is for the most part the case, in the yaws, the infection will, by coition, be communicated to the genitals again, the fame as in the venereal; and then, in fact, there is no difference in the progress.

I would not be understood, by what I have said, to contradict the infection from the Indians: No, it could scarce be possible, amongst such a numerous body of people as they were when the Spaniards arrived there, to be free from this disorder. It is a known sact too, that this distemper is more sharp in the hotter climates, than in the more northern; and I make not the least doubt, but that the Spanish soldiers helped to

fpread it abroad in Europe too.

But,

But, I am also firmly of opinion, that the greatest evil arose (at that time, when it made fuch a noise) from the wrong methods taken for the cure; and of the two, those who had the

least physic, were the best off.

It is probable too, that the infection imported may have been sharper than that of our own manufactory: Be it so; but I will answer for it, it will never grow milder, unless it proceeds from a more judicious method of cure. Let us look around us, and we shall find as miserable objects in that disease now, as ever; whether from wrong proceeding, or from felf neglect.

In plain English; as long as whoring has been practifed, and as long as it will remain in practice, fo long has the pox, in its various degrees, been, and fo long will it continue to be the confequence; whether in Europe, Asia, Africa, or in America. As to any other epidemic infections, or marvellous causes, they are (in my opinion) nothing

but chimerical jargons, and gross mistakes.

If this be true (which appears to me evidently fo) then it is plain, nature defigned not, that men and women should promiseuously copulate; fince this wanton intercourse, not only tends to depopulation, but has ever been the bane to health, love, friendship, and every other focial virtue.

CHAP. II.

Of the Formation; of the Venereal Virus.

TE now advance gradually nearer to the point itself. From my preceding chapter, it will be expected of me, to demonstrate, how the venereal virus may become generated. This I will venture to attempt: Though before I begin this task, I see difficulties, which attend inquiries, fomewhat out of the high beaten road of

general opinion.

It is one thing to felect a good fet of ideas; but it is another quite different, to communicate them properly to others: Ideas are the productions of nature; and though they are extended ad infinitum, yet, they'll appear very distinct in a momentary view to the mind; but languages are cultivated by art, and quite the reverse with the former; they are limited, tedious, imperfect, and

fubject to the various caprices of custom.

I have advanced, that promiscuous copulation generates the venereal difease; this I not only firmly believe to be true, but think I shall be capable to prove it fo. I fee it requifite however, at the same time, to make a proper distinction between the two kinds of promiscuous copulation; namely; that of one woman with a variety of men; and

that of one man with a variety of women. Both are certainly highly immoral, and contrary to the defign of nature: Though something may be said in favour of male incontinency, by the pursuers of sensual pleasure; but semale incontinency, according to the laws of nature, is point blank criminal.

Here is a field for moralizing; but, our inquiries are physical; and wherein, we shall discover evils, enough to rouse the lethargic mind, if there is as yet, the least glimmering hopes of reformation left. But to return to the subject:

There is a wide difference in a man and a woman, in regard to the duties of nature: Man as the protector, woman as the friend: Man to generate, woman to bring forth: Man to provide, woman to nurse. Thus, love kindled within themselves, centers with mutual pleasure and satisfaction in their off-spring: To which end, man was made brave and robust, both in body and mind; but woman on the contrary, tender and delicate, as well in the texture of her fibres, as in the faculty of her understanding.

Man, loves his off-spring, because of the mother, as he thinks her chaste, and believes them to be his: But woman, loves the father, because of the child, as part of herself, in which she cannot be mistaken. These simple truths, are the cement of love and duty, in either sex; and constitute their separate characteristics: Man, as the brave, judicious, healthy, and industrious father; woman, as the affectionate, chaste, prudent, and tender mother. Thus, nature shines in its primitive divine will; surrounded with rays of heaven! But, the more to keep man, in these simple tracts of felicity, she made every other by-road difficult

difficult and difagreeable to purfue; in order to convince mankind, how eafy it is to be good and happy, and that none but fools are vicious.

Woman was not made merely for the gratification of lust; nor in fact, destined by the laws of nature for farther embrace, than that by which she conceives. This is evident from two causes. First, from the delicateness of the sibres in general, but in particular, the vagina; where the cuticula is the thinnest of any part, and therefore very subject to become galled and fore, on repeated friction; Secondly, that excess of venery causes sterility both in men and women; and to this it is owing in general, that common prostitutes are so very seldom pregnant; the reason is plain, namely, that the agitation of coition prevents the coherence of the

conceived embryo.

Woman is by nature the passive, but man the acting object. Woman may therefore be cohabited with, without pleasure, inclination, or even confent; but man, on the contrary, has his will bridled by nature, in order to render him capable of power, in proportion only to the efficacy of his venereal functions. Hence, we shall with propriety learn, to make proper distinctions of venereal excesses. For that excess, which is between one man and one woman, though hurtful, vet cannot have fuch tendencies, as that criminal abuse of venery, which wenches exercise with various men: For a man cannot repeat coitions with equal activity, because the vigour must gradually leffen, and he will be cloyed; by which he gives time for reparation on the female's fide; whilst a variety of men, equally fired with lust, but confiderably various in their mode of exer-

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cifing it, must doubtless cause different, and more

evil consequences.

Love and chastity are hand in hand companions. The woman who loves is chaste. She cannot love more than one man; and whilst she is chaste, she will never consent to any other. But the moment she has broken through this pride of virtue, love ceases; and having lost her reputation, she falls into self-contempt. She loves no more, but hates the whole sex, for the sake of him by whom she was made miserable; and as she becomes abandoned, she sinks in wretchedness. Conscious of being excluded from friendship and protection, she breaths in despair, nothing but malice and revenge. If to this, indigent want steps in, then vicious prositution compleats her missortune

misfortune.

Can fuch a wretch foster a carcase, which she tenders to every purchaser for satiating a soul and luftful appetite; and after which she is treated with fcorn and contempt? No; she loaths her body like carrion, and despises the dupe, who stoops so low as to carefs her: Art, cunning, deceit, treachery, and mischief, become her refuges; with these, like a spider's web, the catches the imprudent profligate, and entangles him 'till he is ruined of worth, health, peace, and even life itself. This is the wretched condition of a common whore, to which we must add, irregularities both in life and conduct: Sometimes in extreme want for the necessaries of life; fometimes wretched by cold, hunger, thirst, and grief; from which The may fuddenly be transported into gluttony, and debauchery of the groffest excess; which, together with the natural infirmities of the fex, must make her a vassal of vice, wretchedness and Such difease.

Such an unhappy woman, I am perfuaded, is capable of generating a virulent infection. Suppose the catches a man, with whom the drinks and lies; coition is probably repeated, and for the hire the receives, induced to exert herfelf; and perhaps from a forced wantonness in the action thereof, she ejaculates, and exhausts all the pleafing fenfations it may afford her: If the retired to rest after this, in order to recruit, she might certainly repeat this practice; and whether it was with the fame gallant, or any other, could not have any ill consequence as to an infection: But instead of this, we will suppose (as is frequently the case) her luftful prey leaves her, as soon as his appetite is fatiated, and that she immediately catches another, equally fresh and lustful as the former; with whom, for the fake of what she can get, repeats the debaucherous exercises, though not without a difagreeableness to her fenfation: By this time she will become fenfibly fore, as the nymphæ, the carunculæ myrti-formes, and the rugæ within the vagina, are galled, by the repeated frictions; but in particular the clitoris, which has been strained by this excess; from whence the ligamenta rotunda, and confequently the uterus, has been fet in a violent agitation, by which all the organs have been greatly stimulated and injured.

If she stopt here, it might pass, particularly if she be not an abandoned veteran; but this is seldom the case, if any thing farther offers; for by this time we may venture to pronounce her intoxicated with liquor; and that, with the irritation from the excessive venery begins to operate, as a stimulus for more lasciviousness; pro-

bably she meets with a fet of debauchees, with whom she spends the remaining night, in drink-

ing, riot, and the groffest licentiousness.

Behold now the next day, this emaciated creature: Universal fatigue, pain, and a guilty conscience, make her curse her very existence. But in particular, concerning our inquiries; the genital parts are fwelled and inflamed; this foreness is not only in the pudendum, but is even within the uterus itself; from whence will flow a sharp, pussy and stinking matter, in abundance: this is not all, the bawd, under whose wings she is, "will have no idle hussy in her house, -these are but trifles; and that she'll like this fport better when she becomes more used to it," &c. by which comfort, together with a glass of gin, the is encouraged for further engagements and spirited up to emulation, not to be out done by her fifters in iniquity.

The reader I apprehend will ask, whether this woman is now infected with a venereal virus? I don't know; but this I will venture to affirm, that whoever copulates with her, whilst she is thus situated, will find the effects of it; and lay a foundation for as good, and substantial a pox, as the best ever imported from the West-Indies,

by Columbus.

I am not ignorant of the many things supposed in opposition to this; But I must beg for patience somewhat longer; for I have not

yet done.

If it should be further ask'd, whether excess of venery with a single pair, suppose a tender woman, and a robust man, might not have the same effect? I answer, perhaps it may, though

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I am rather apt to think to the contrary; not only from the before-mentioned reasons, of the natural inability on the male part to fuch an excefs of friction, add to this, the mutual harmony, fincerity, and cleanliness in such a case, particularly where love lays the foundation; but also, from another cause, of a more peculiar nature; namely, an agreement of humours, to which both parties are gradually become naturalized, and rendered perfectly agreeable to each other; from whence neither the folids, nor fluids are fo apt to irritate each other to irregularities and acrimony. This may at first feem a strange conjecture; but if we reflect fomewhat more feriously, we shall find it to carry a great share of probability with it; for nature acts the same in miniature as in greater things. I will not, however, infift further upon this, than what the chain of observations in general may feem to confirm; only here take notice, for instance; our stomach, is such a wonderful organ, which by a gradual aptitude. will perfectly become reconciled to fuch things. as would prove an immediate and mortal poifon, to another unaccustomed to the same.

Whatever may be supposed of the peculiarity of the venereal virus, I am more and more confirmed in my opinion, that its first origin is from simple ulcerations; but in particular, from a corruption of humours in the genital parts; and indeed enough too. I own very readily, that the venereal virus is different from the pus or ichor, in any other common ulceration; especially if the infection and the disease is local: And this is reasonable; since their rise was in peculiar humours; as the humours in the pudenda in either

fex, have fomething remarkable from every other: For neither nature, nor art, ever made any other humour, smell so peculiar, as that within the pudendum muliebre; which from a clean and found female, will prove to the amorous, not difagreeable before the embrace; but becomes nauseous immediately after enjoyment. This is pure nature; and intended to promote instinct: For which reason, we find, that this governs the brute species, more than man. It is this peculiarity, by which the female, of the brute creation, for the most part, invites the male to generation; and by which, when that duty of nature is compleated, difmiffes them again: particularly of the promiscuous kind. This the notorious vagabond Bampfylde Moore Carew knew how to use as an artifice for dog flealing. The remarkableness of this no doubt is in the lacuneous mucus; and to that humour, I ascribe principally the first formation of the venereal virus. There is perhaps, not a fluid in the animal œconomy, which is fo liable to decay, and fooner to become rancid; and thence we fee the great necessity of cleanliness in the female fex; which, even by instinct, makes us fo very fenfible of the difference, and fo remarkably difgufts us against an unclean woman.

From this too, there offers a great reason, why nature chose to place the genital, and urinary organs, so contiguous to each other. May we not suppose, that this wife forecast was intended to wash away the rancidness of these humours, that they might always exist fresh? Indeed, by this provision, we have it greatly in our power to prevent many disagreeable and evil conse-

quences.

By this opportunity, I cannot help observing, that there is more virtue in urine, than we are aware of; poor people, from necessity, sometimes make it a successful remedy, particularly in cutaneous eruptions, when often more delicate applications have failed: Nay, it has been proposed as a specific application to the bite of a mad dog, and other infectious distempers; and I think with some propriety too. Amongst the various observations in the book of nature, it is worth notice, that dogs are so ready to urine at every post, or corner, where they smell something so peculiar, by which they are induced to this officiousness.

There is nothing more conducive to health in general, than cleanliness, but particularly in this respect we now speak of. Cleanliness in a woman, is one of her principle virtues and ornaments. It is greatly productive of modesty, and chastity; for by this amiable quality, she is forever precious of her person; and freed from irritations occasioned by rancid humours, whereby the mind sometimes becomes stimulated to sufful defires: But, it is quite the contrary with uncleanliness; of which we shall generally find that incontinency and diseases, are the accompanying consequences. So that from the care of the body, we may with safety judge the disposition of the mind.

Amongst the many voluptuousnesses of the ancients, their baths were certainly both laudable, and falutary; and though they were to the full as licentious in every kind of debauchery as in the present age, yet they oftener escaped from falling facrifices to these vices than we, on ac-

And it is not unlikely, that from the same reafon, they were more healthy and robust, than in our days; particularly the Romans. It is a matter of surprise, that this salutary custom is so little regarded, in this refined age; since nature and reason, say every thing that is good, in sayour of it.

Hitherto I have mentioned the causes of the venereal virus, though not strictly speaking, the poison itself; for in these particulars, there is a material difference. Agreeable to the preceding, I have described a humour which is the result of actual ulceration in the vagina, and in the pudendum in general, from excessive friction and promiscuous venery only; without a pre-

vious infection.

In this fituation, I am inclined to think, a woman would infect the man who copulates with her, particularly if he is young and fiery; and especially if he ejaculates, though she herself, may not strictly be said to have the disorder, which she communicates. This I am apt to think is very often the case. And from this it appears very evident, why young lads in the hottest passion of youth. are more easily insected, than men in more advanced years; and this clears up likewise, the mystery, why a wench shall insect, one, more than another; a thing very frequent with debauched rakes; which often breeds wrangles amongst them; as there are various opinions, concerning Fanny's honesty.

How this infection may be perfected, will clearly be understood, when we duly confider the act of coition. A man cannot exercise

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that function, without his member being erect; now this erection, is nothing but a distention of blood, in the various corpora cavernofa; and which is the more fo, as he is vigorous and the veficulæ feminales are filled with the femen. The eagerness, the desire, pleasure, and violent motions of his body, agitate greatly to the rarefaction of the whole fanguiferous mechanism: And every part of the fabric is diffended and exerted to its utmost at the crisis of the act. In this state, it is plain, that every pore is opened, as much as may be; that is to fay, the officula, of the finer ramifications of arteries, veins and lymphatic veffels, are all diftended to their greatest possibility; and at that time, even in a gentle perspiration, but more in particular every part of the genital organs.

But the moment the feed is ejaculated, the fcene is changed, and there is not a part of the whole man the fame as before; every part, which before was diffended, now shrinks, and contracts, and that even in proportion to the effort of the former expansion; but this sudden transition, is most so in the penis, the chief member con-

cerned.

At this time of universal contraction, it is natural to suppose, that the member must absorb part of the surrounding humours; and if these are of the corruptive and acrimonious kind, how is it possible that they should not compleat an infection? But this infection disposes itself variously; not so much by chance, as one might be apt to suppose; but perhaps partly from a correspondence of humours; or else chiefly as the parts are most exposed, and by the friction be-

come tender; by which, the immediate contact is the closer, and the poison more readily im-

bibed.

If the absorption is externally, in the præpuce, frænum, glans, or its corona, &c. a phymosis, paraphymosis, shankers, &c. will gradually make their appearance: But if the miasm is suck'd up into the urethra, (which is for the most part the case, if there be an ejaculation) a gonorrhæa will be the result.

Thus the virus is truly compleated; and from that time, becomes positively infectious; whilst before, it was merely accidental or rather conditionally so, principally by its corruptive quality; wherein it differed only from other ulcerous matter, in regard to the close immediate contact,

and coincidence with fimilar humours.

This is the confequence of wenching, and the abuse of the gifts of nature; but there are other causes of infection, namely, from debaucheries, of the most heinous, unnatural, and diabolical nature. Sum up all the vices which human ideas can possibly conceive of Satan, and they are all comprised in that unnatural monster, and scandal to human nature, a Sodomite. What a deplorable wretch! However, I have an effectual remedy in reserve, for this poor devil, before I close the book; we will therefore proceed to the chain of our subject.

The fodomites have at times made it their plea, that they were not subject to the venereal disease; but they have been grievously mistaken; for of all infections, theirs is the most shocking, and the most obstinate kind of any; and as to the catamites, they have at times exhibited most horrible spectacles. I am ashamed to defectibe

cribe the ideas, I have of fuch an unnatural and horrid act; nor can I conceive, what can induce these monsters to a passion, for such a filthy pleafure. Be this as it may; the intestinum rectum abounds with mucous glands, particularly about the anus; and these glands are frequently somewhat difordered, according as the excrements are loaded with acrimonious humours; but in particular the hæmorrhoids, whether the fluentes, or cœcæ, are ailments, whose humours have a peculiar acrimony, and likewise more or less infectious; fo that in this part, befides the natural infirmities, that it is subject to, if we add the violent friction in this diabolical act, we need not wonder, that the most pernicious virus may become generated. Nay, if we should even object to the production of a venereal virus from excess of venery the natural way, from this now mentioned, it cannot be objected to; and that the first infection has been owing to this crime, and that of copulation with brutes, many judicious authors have (and with much propriety) advanced,

How far however I have reasoned, and how justly, I leave to the judgment of the experienced reader; who, I apprehend, (if prejudice is laid aside) will coincide with my opinion. There are various other causes, by which a venereal virus may be generated; which will, however, appear gradually in the series of our examination. I shall therefore, now proceed to an inquiry into the nature of this subtile and pernicious poison.

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Of the Nature of the Venereal Virus.

speculations are as idle, as they are later

real virus, whether from a promiscuous venery, excess of venery, unnatural venery, uncleanliness, or common ulcerations; or whether proceeding from an actual importation, either from the West-Indies, Coast of Guinea, or any other part of the world, we will leave to a judgment from the preceding; fince I have there given it as my opinion that each may produce, and has produced, this pernicious distemper. We will therefore turn our speculation to an examination of the nature of this disease; and wherein it peculiarizes itself from other insections.

Previously, I would be understood to make a proper distinction betwixt the cause and effect, of the venereal virus; that is, between the acrimony, from which the disease may be produced, and the disease itself; as the infection from the sirst is only accidental, but the latter

absolute.

In speculations, we ought ever to be on our guard, not to launch out beyond experience, and observations evident to our senses; for we know not, nor can we know any thing beyond these bounds: And no sooner do we presume to stray beyond such limits, but we become like a helpless bark

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bark in a boundless ocean, without pilot or com-

país.

What the particles of the venereal virus are, with regard to substance, figure, form, or magnitude, is a mystery hid from human ideas; such speculations are as idle, as they are useless.

Whatever is faid of their angular, and prickling points, and that they must be blunted, made aquare, round, or oblong, &c. is, in my opinion,

nothing but unintelligible jargon.

There is a manifest difference between mineral, vegetable and animal substances; and in consequence of which, the manner of their generation, as well as their corruption, are equally as different. When this is duly considered, we shall find a great distinction, between the acrimony of animal corruption, from an animal virus, and that from a mineral production.

It is allowed on all hands, that the venereal virus, is of a sharp and acrimonious nature; this is wholly true, demonstrated from sad experience. But we have (in my opinion) no right at all, to particularize it with either the appellation of salts or acids; for it is evidently opposite to both; since it will be checked by either, as we shall have occasion to prove farther bye and

bye.

The vesicatorial acrimony in cantharides, to which the venereal virus has a near resemblance, we are likewise wont to derive from saline particles; but in sact, a chymical process, will not produce more salt from these insects, than from the same quantity of any other kind.

All infective miasms, have in common an acrimony, which fooner or later, difcovers a corruptive quality; and indeed have likewife fome refemblance to the destroying qualities of mineral corrofives; however, they are so opposite in their different natures, that we cannot, with the least propriety, give the same appellation to them both.

It is a truth univerfally known, that falts and acids of whatever kind, are the greatest prefervatives against putrefaction, and consequently the generating of animalcula; but at the same time it is known too, that a virus will have the contrary effect. A phagedænic ulcer, is not only of a corruptive quality, but is likewife fœtid, and if neglected, will abound with animalcula: A mineral phagedanic preparation however,

prove an immediate antidote to this.

A quantity of cantharides when left to themselves in the open air, particularly if they can attract some moisture, will soon swarm with little animals of the mite species, into which they will almost wholly degenerate; but if they be intermixed with camphor, falts, or other anti-putrifying ingredients, this animal transmutation will be prevented, the fame as the preferving of any other animal fubstance; but it is at the same time worth observing, that fuch preservatives will lessen the epifpattic quality of them.

The more we speculate on the many maladies, to which the animal œconomy is liable, and the many destructive ways in which they act, the more we find ourselves incapable to account properly for any fingle one of them: A man shall

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either from luxury, bad digestion, or passion of anger, get a bilious and putrid fever, and breed a contagion; another shall from a bad habit of body, get the itch, and spread it to all who cohabit with him; a dog shall become mad, and by his bite, fpread this deplorable malady to any animal without distinction; and a man shall become poxed, and communicate this difeafe, to all who come within the chain of an immediate contact with him. All are pernicious, though each in a different way; and all the conclusions we can form, are, that the miasm of each kind of infection, is of a peculiar nature, and attacks fuch parts of the animal œconomy, as first generated it, over which it has the greatest power, and consequently that part least able to resist its corruptive quality.

One infection will attack the viscera, and nature will attempt an expulsion of the enemy by copious evacuations, without any external eruptions: Another shall leave these organs without the least molestation, and make a horrid havock all over the external parts: One disease will attack the glands; another the nerves; one the

fluids; whilst another the folids, &c.

But what a virulent infection must that be, which attacks every part, and reduces the whole sabric into a mass of corruption! The venereal disease will gradually be this horrible malady. But this we must represent in its proper light; for there ought to be a proper distinction of the various infections; and likewise, whether it is recent, latent, local, or universal; which we will farther discuss. The infection by immediate con-

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tast of coition, is however the original; and the fountain of all the rest; but particularly that we are now speaking of, and, which is primarily of an ulcerous quality. Every particular part of our body, has a peculiar manner of corrupting; and hence, when the venereal disease becomes universal, there is then, properly speaking, as many different diseases, as there are peculiar humours infected and corrupted; for which reason, there is a wide difference between a recent and local infection, and that which is secondary, and becomes universal: As the first is confined to the parts where the infection was received; but the latter, a production of a variety of other new ones.

All infections have this in common, that they discover themselves with inflammation and ulceration of the parts which first received the poison; whether the contagion struck root externally, or internally; (sew excepted) Thus in the smallpox, if by inoculation, the part infected will inflame and ulcerate; and so in the bite of a mad dog. If, however, the infection of the smallpox was contracted the natural way, (as it is termed) drawn in by inspiration, the contagion taking root in the throat or lungs, as is frequently the case, we then find, that a horseness, cough, &c. attend the first symptoms; but if it was imbibed by the pores, as sometimes happens, an erysipelatuous inflammation first makes its appearance.

There is one thing more to be observed of infection, and wherein it distinguishes itself, from such kinds of corruptions, as proceed from mineral corrosives; and that is, the venom from infection will lie concealed, and appear dormant for

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fome time before it operates; whilst mineral corrosives will attack the particles immediately upon contact. The first will operate slowly in an increasing state, and gradually become violent; whilst the latter, on the contrary, will attack vio-

lently, and gradually lofe their effect.

From all these observations, I think it appears plain, that the miasm of the venereal virus, can neither be termed faline nor acid; and that it has other effects and operations in the animal œconomy, than hitherto the terms of art have been capable to convey a proper idea of. The doctrine of animalcula has been received at times with applaule; and carries yet a great fway at present with many: The celebrated Boile, (whom, Dr. Aftruc falutes with the appellation of Quack) very ingeniously endeavoured to establish a doctrine, that all difeafes, of whatever kind, proceeded from animalcula; in which, by the help of a fratagem, he was almost as fuccessful as the ingenious Mr. Leewenhock: Be this however as it may, there appears more excuse for the first, than for the latter, though both evidently wrong.

It cannot be denied, that almost all cutaneous and ulcerous distempers (if left to themselves) will abound with animalcula of various kinds; which are not only observable with microscopes, but even at times with the naked eye. But here animalcula, on due reflection, are the production of the corrupted particles, separated by the miasm of the virus; and therefore, neither this, nor the appearance of the pus, ichor, or sætid matter, can characterize the contagious miasm; as the

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one is a subtile peculiar spirit (if we may so term it) whilst the others are the grosser corrupted

dregs.

But not to make these enquiries too tedious, I shall only observe, that (to my ideas) the miasm of the venereal virus, is an animal acrimony, different from either faline or acid particles, or animalcula; but of an effect different from either; namely, an intestine animalatious aptitude, to unite intimately with particular humours, or folids; whereby it, from a propenfity of converting the order of nature in those parts, which it attacks, irritates and inflames them; tears loofe the particles, and thereby destroys the stamina of the fubstance, and thence causes exulcerations. Now this quality of the venereal virus, I can express by no other term, than an inflammable animalatious acrimony, primatively peculiar to lymphatic humours, and glandulous substances: And the infection and progress, of this acrimonious miasm, in the animal acrimony, I conceive to operate somewhat similar to peculiar feed sowed in a fertile foil; where it will vegetate, and generate more of its own species; though with this difference, that both parties in the animal vegetation, or animalation concerned in the infection, will have a peculiar animation; whereby they will ever be in pain and opposition to each other; so that the tharpnels of the acrimony confifts more in the vivacity and activeness of the miasm, than in any pointed particles that it can possibly have in common with falts or acidities, peculiar to any mineral corrofive fubftances.

C H A P IV.

Of the Infection of the Venereal Disease.

IT now follows in course to describe the various insections to which this malady makes us subject. It will not be improper, first, to consider the nature of an insection in general. Throughout nature, there is a struggle between self-preservation and decay; both are ordained by the incomprehensible first cause, as absolutely requisite to support the universal chain of existence;

Thus, "All fubfift, by elemental strife; "And passions, are the elements of life."

Whatever body, whether mineral, vegetable, or animal, which continues its proper course prescribed by nature, is sound; but if that course is disturbed, (by whatever cause) a decay, immediately takes place; and would naturally communicate itself to every thing of the same kind, if connected by the immediate contact into one body; unless the progress of this corruption was interrupted.

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This aptitude or communication of decay is infection, in the general fense; of which there are as many kinds, as fubstances, and difeases. In regard however to the animal economy, there are two species of infection; namely, the primary, and the fecondary. The primary is again of two kinds; either by clote contact of parts, or by the effluvia of the miaim suspended in the air contracted at some distance. These definitions are not however so arbitrary, as some have seemed to understand them; for every diffemper which is actually contagious at close contact, is liable to become more or less fo, at some distance. This is very natural to suppose, as the circumambient air, or the atmosphere of diseased persons, must be more or. less filled with the miasmatic contagion of the difease they labour under. But the aptitude of the found person, to contract this contagious miasim, varies, not only in proportion to the state he then is in, but according as those parts are exposed to the infection, which have a peculiar propenfity to become injured and affected by the contagious poison. From these natural conclufions we shall be able, clearly to comprehend, the many peculiar phænomena of the various infections of the different degrees of the lues venerea.

The first kind of infection, (and indeed, in my humble opinion, the primitive cause of this disease) is that which is contracted from an ulceration; but more particularly in the lacunary glands, in the pudenda, in both sexes: For example, a woman, whose vagina, or pudendum in general is ulcerated, either from uncleanliness, whereby

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the mucous humours are become acrimonious; a sharp fluor albus; phagedænic catamenia; or excess of promiscuous venery. A woman in such a state, is liable to infect, though she is not herfelf positively infected: but then this infection is conditional; the may not perhaps infect one who is accustomed to copulate with her, for reasons I have mentioned before; but if she is eagerly embraced, by a young, fiery, and delicate man, or even a stranger to her person, I think there can be no room left to doubt an infection; at least I shall always think so. In the same manner, a man may infect a woman; for example, when the fmall glands about the corona glandis penis, and within the præpuce are become ulcerated. and form a kind of thankers, which have had no previous infection, and only take their rife either from neglect of washing the penis, in those subjects, who have filberd præpuces; or which is for the most part the case, proceeding from onanious frictions; in which case the acrimony may be equally as foon introduced into the lacuna glands of the vagina; and the more fo, as the woman is delicate, and the embrace ardent: But this latter infection, is not so often as the first, from two reafons; first, men are not so subject to these original ulcers, as women; and fecondly, at fuch a time, they are rendered more unable for coition. than women in the fame state.

The fecond kind of infection is more absolute; and that is the infection of the venereal virus it-felf, by coition. No one doubts of the truth of this; yet there are questions under this head,

which

which it may not be improper here rationally to

enquire into.

First, Why one, who is very flightly affected with the difeafe, shall infect another very virulently; and vice versa, why one most virulently affected. shall infect another very flightly; and even another ihall escape? These are facts known both to patients and furgeons. In answer to this, I shall only observe, the infection depends not fo much on the quantity of the virus, as on the aptitude, and conflitution of the person who contracts the miasm of the virus; This we find likewife verified in the fmall-pox; where various fubjects shall be infected from one patient, even having the distinct kind; and each who is become infected, with the fame contagion, shall undergo a different fate: One shall have a mild distinct kind; whilst another shall die a horrible spectacle in the confluent.

Secondly, Why a person shall infect another, most virulently, whilst at the time of infection, there is not the least symptom of the disease? We must here observe, that the person was previously infected, and copulated with another, before the fymptoms had made their appearance; and therefore, notwithstanding its not appearing externally, may communicate the miafm to the found person; and this has been too often the case. Or elfe, the copulation was, when the affected person was just getting well, and the disease so mild, as not to cause symptoms of virulency: for in either case, it is as much infectious, as in the greatest virulency, to a found subject; whose pores are open, and who, from a delicate irritability, has an aptitude to contract the infection. Thirdly,

Thirdly, At what period of coition the infection takes place? To answer this, we must obferve, there are two kinds of coition; a true, and spurious. In both, there is a close contact of parts; but in the real, there is an actual union; and in that moment, a continued circulation of the fluids. Besides this, the ejaculation on both parties, is the crisis of this united contact, and inverts the course of the united circulation; so. that before, there was an actual excretion of humours in these parts; but afterwards a manifest fecretion, or rather an absorption, from the universal contraction of the parts, in the act of flaccidity. Hence it appears, that the whole time is infectious; but in particular, after the time of ejaculation.

Most certainly there are; but so far only, as to destroy the miasm, already imbibed: But for the common method in practice, (viz.) washing; either, before, or after coition, can have but very little effect; since, the seat of the miasm is rooted deeper, both in the person affected with the disease, and the parts insected, than what any simple lotion, may reach, or come at: Yet, the practice is commendable; and may perhaps contribute towards preservation. Here, I cannot help taking notice, of that soolish practice, to

call it no worfe, of machinery.

If it was an actual preservative against infection, which there is some appearance of, there might be some excuse, though then but very little; for it differs, in my opinion, but sew degrees, either from onanism or sodomy itself; and can most

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certainly, neither give pleasure, nor satisfaction; but to their grief, they have found themselves mistaken very frequently: For the real miasm, is an effluvia; and whilst, after the ejaculation, there is a reversion of all the sluids, particularly about the genital parts, the miasm may be contracted in more places, than the penis or vagina: And hence, those diabolical debauchees, have, by this disgussful and unnatural practice, been lulled assep, 'till buboes, shankers, porri, vevrucæ, condylomata, &c. have awaked them; and given them notice, that they were over head and ears in the pox.

The third kind of infection, is that which is contracted by other means than coition. Of this there is likewise no doubt. But in that case the patient must be more than locally diseased; and the malady, is then become universal: For in that state, there are so many different parts, and humours injured, that there can be no contact of any parts of the body, but what some humour, must coincide with others of the same affected. This kind of infection, may be effected two ways; either by close contact, or by the effluvia

of the miasm in the air.

In regard to the close contact of parts, such, we find effected; first, by lascivious osculation; in which case, the lips, the tongue, and throat, will be insected, and become fore and ulcerated. Secondly, wet-nursing; either an insected nurse to a sucking child, or an insected child to insect the nurse; in either case the breasts or the mouth will first discover the insection. Thirdly, by sleeping in the same bed; particularly where there is

a close contact of parts; and especially, if the patient has venereal ulcers, a venereal itch, or a profuse sweat: In such cases there is great probability of, and room for, insection. Fourthly, by a kind of accidental inoculation of the virus; either by an accidental cut, (as has been disagreeably experienced by surgeons, and proved a troublesome affair) or otherwise introduced, from a venereal ulcer, to that of an ordinary kind; which likewise has been experienced.

When however, the very atmosphere, of the venereal patient becomes infectious, his condition must be deplorable indeed; for then he has not only the confirmed lues, but the sluids, as well as the solids, are then actually in a state of corruption. This is the condition which the Antients called the leprofy; as well amongst the Israelites, as other nations, even of a more modern date. Which shall be more fully treated

of hereafter.

Under this head, it may not be amiss to solve the question, Why a person, who is asraid of any contagious distemper, shall be more apt to be infected, than another, who has no dread nor apprehension of it? The truth of this affertion has been sufficiently experienced; particularly with the small-pox, to admit of any farther doubt; though some have denied it, but injudiciously. Throughout the animal economy, there is a spirit of self-preservation implanted by natural instinct; from which every part in the whole animal fabric retreats (as it were) at the approach of danger; and all the external vessels, combine with an universal contraction, to shelter the grand

But to return to the confirmed lues. When this deplorable malady has made its way univerfally through the whole fabric, and commenced a corruption, the patient becomes abfolutely contagious by his atmosphere: If however, under a proper course of cure, the evaporation of the medicines, (if they are truely in opposition to the distemper) will likewise destroy the miasm of the contagion: This we have happily experienced from the use of mercury; (as the only antidote against this malady, that can be depended on, yet discovered) which from its volatility, so perfectly destroys the venereal contagion, as to pre-

vent all infection this way. From whence, fuch infection has not been admitted of by some writers; but were they to try the experiment, in a confirmed lues, without mercury, they would

foon find themselves grievously mistaken.

Hitherto I have treated only of the primitive infections, and the various ways this difease may be first contracted: It is easily concluded from thence, that the progress and aspect thereof, must vary accordingly. I shall therefore in course, mention the fecondary or continued infection. This is what happens within the patient himself; and may come to pais many different ways.

Of all the infections before-mentioned, that contracted by coition, is the most common, and certain; and from which, the diftemper is always local; (that is) confined to particular parts, and a propenfity to an external discharge. Whilst it is in this state, nature is forever guarding against the enemy's encroachment, and continually busied, to expel more and more, the morbific matter. When however, this effort of nature. is disturbed or repulsed, either by the virus becoming too powerful, by neglect, and irregularity of the patient, or improper method of cure, the virulent particles gain admission into the blood; with which it circulates, and in fact, breeds as many infections, as there are different fluids, and folids, which the virus corrupts and attacks. And thus generate fuch a multiplicity of difeafes, as is scarce credible to suppose, should take their commencement from this foundation.

There are a number of ways about the privates where the infection by coition makes its first appearance;

pearance; but that, most common, is the gonorrhœa. The rest of this disorder, is seldom at first so deep, as to affect the seminal or other parts; yet by whatever causes that this course is disturbed, the neighbouring parts become tainted, and the virus will cause different disturbances besides those first contracted : Hence, bubos, swelled tefticles, &c. When the poison is expelled from these parts again, without either returning to its former channel, or being destroyed, it cannot fail of falling on some other parts; or else be introduced into the whole mass of blood, and be liable to become universal. The many different causes, by which fuch a fecondary, or continued, and universal infection, may be effected, I shall explain more at large, in my fucceeding chapters; only here observe, that the progress of such spreading, acts as different as the fubjets, labouring under the malady, vary: Namely, in some, very rapidly and virulent; while in others, flow and latent; in some they are tractable and easily removed; in others stubborn and deeply rooted in the very stamina of their whole composition.

It would be too tedious, I fear, here, to enquire strictly, into the reason of the different proceedings of this poison; however, the general cause thereof, results from the disposition, of

the fluids and folids in the fubject affected.

There are diseases, which are in their nature, in opposition to each other, and will, like antidotes, destroy each other's power and rapidity; whilst others again, will join, and aid each other's destructive quality. A person will one time, be in a habit of body, to repel, and reject a disease, which

which at another time, he shall fall a facrifice to; though at the time of the infection, apparently in an equal state of health. But in the general course, (though not without exception) young, hot, active, and tense sibred constitutions, suffer more in the venereal disease, and are more liable to severe, and rapid continued infection, than laxer, and more phlegmatic subjects. Hence it is evident, and this is confirmed by experience, that women in general, suffer not so much by the infection, as men; for, besides the laxness of their sibres, their sluids are more mild and plentiful, the whole body more tractable, and of course easier cured.

On the whole however, every thing inflammable, whether passionate emotions, drinking, or other irregularities of life, must always be considered as suel to this pernicious fire; and will ever promote a virulent conflagration of the whole fabric.

There is a manifest difference in the progress of the secondary, or continued insection, regarding the contagion, as it was first contracted: The insection visible from a gonorrhoea, is the most evident, but at the same time, the easiest to get rid of; since the enemy makes an open attack, and alarms the patient, to apply proper remedies: But when the insection is immediately conveyed to the blood, and there lurks about slyly, it then acts the part of an assassin, under the cloak of innocence, and gives the patient, unawares, the mortal stab; whereby he is roused, but too late from his lethargic security: And this has too often been experienced by the diabolical practice of machinery.

But

But it is a pity, that the most innocent should undergo this hard fate, equal with the deferving: Such as the infant from its nurse; or a nurse from fuckling an infected infant: What mischief, such an infection has occasioned, is well known to many fuffering families, and the experienced faculty. Evils have arisen from such undeserved infection, by which not only health, but peace and confidence, have been driven from the conjugal bed! Namely, that nurses who have suckled infected children, have communicated the infection most virulently again to their husbands by coition. The truth of this has been much doubted; though on mature confideration, there is nothing furprizing in it; for as it is a difease that chiefly attacks the genital parts, why should the continued infection not affect, and vent itself in the various parts of the pudendum, as well as any other part of the body? For in the confirmed lues, when the miafmatic virus has contaminated the whole body with an ulcerous corruption, the genitals generally open the tragic fcene; next all the glands, and at length the most indurated folids of the animal fabric: Though this progress is by no means a general rule.

But of all infections, that which is hereditary, is certainly the most stubborn; and I fear it is beyond the art of man, to eradicate those miafmatic particles, which have been ingrasted in the very rudiments of their generation. It is seldom such children grow up; as that seed of poison, which is so universally sowed in their composition, generally ends their short, though miserable stay, in a manner too visible to doubt the cause

of the pitiable end they make; dying fometimes a meer mass of external and internal corruption. And if they, by perpetual struggles, even gather years, it is but then dragging a life of infirmity, and innumerable difeases; forever strangers to the bleffed enjoyment of health. What fuch parents, who thus have entailed mifery on their off-fpring, have to answer for, must be left to their own consciences to consider.

On the whole, there is not an infection which becomes fo univerfally destructive to every part of the human body, as the venereal virus; there are miasms of other species, which act upon the animal œconomy at times, with greater rashness than this, though more confined in their destructive quality; but it is scarce possible to mention any one ailment, but what the progress of this malady will produce, or at least make a refemblance of; fo that like Pandora's box, it contains

all the difeases incident to human nature.

To conclude, I shall beg leave to remind the purfuers of licentiousness, that this is not the greatest corruption debauchery produces; the mind is at the fame time, yet more perniciously contaminated. As the venereal virus gives birth to the most malignant and horrid difeases, that the body can be afflicted with; fo lascivious gratifications and debauchery, are that pernicious virus, which corrupts and converts every good quality, into the most heinous vices: Whereby those flaves to false pleasure, become not only completely wretched within themselves, but a pestilence and nuisance to fociety.

CHAPV.

Of the First Infection.

AVING thus prepared the way, let us now enter upon an enquiry into the progress and consequences of the malady itself. What is meant by the first infection has been explained in the preceding chapter; we will therefore now consider the various consequences and effects thereof.

There are four ways by which the first infection may be communicated: The first, and most absolute, is by coition; the second, by close contact of parts, (or inoculation); the third, by an infected atmosphere; and the sourth, hereditary. I shall trace each in turn; and examine into the many trains of diseases, which each separate infection is liable to give birth to

The infection from coition is the most certain and absolute; and I'll venture to fay, it is not only the venereal disease, which by this contact becomes transplanted, but any other malady that has got an epidemic miasm: But this in general life, we take but little notice of; for few miasms have such a powerful infinuating effect, as the venereal virus; and many things escape our notice,

notice, because their consequences are not forcible and general enough to command our strict attention.

The first ailment in general after impure coition, is a virulent gonorrhæa; and from this disorder, for the most part proceed all the venereal evils, if improperly treated, or otherwise neglected: On the understanding therefore the nature of a gonorrhæa properly, and of treating it judiciously, depends almost the success of the cure of the whole train of the various venereal diseases.

Of the GONORRHOEA.

THAT the term gonorrhoea is of Greek extraction, and originally fignifies a seminal flux, we find sufficiently explained in all dictionaries: How far however, it is seminal or not, we shall

confider in the sequel of this discourse.

There are two kinds of the gonorrheea; the virulent, and simple: the first is that from an infected coition; where some parts within the urethra is corroded, and discharges a purulent matter: The second, is an absolute seminal discharge; proceeding from a weakness of the seminal parts. The virulent is venereal; but the simple may proceed from other causes.

The virulent gonorrhæa, is that which we understand by the clap: This has at times been diftinguished into the malignant, and benign: That is otherwise, a clap, and a gleet. Though this distinction holds pretty good with respect to the patient, particularly in regard to the symptoms; yet this difference in the terms, has too frequently done much mischief; as we shall soon perceive. A distinction of the different stages of this disorder, the same as of all other distempers, will however, give us a better idea of it; and convince us, that the only security against an enemy, is to get entirely rid of him. I shall examine the gonorrhæa from its first commencement, the increase, height, and decline, till it is no more.

Though both fexes are equally liable to this malady, yet the fymptoms, diagnostics, and prognostics, differ greatly; and this difference is requisite to be known, in order to indicate the best method of cure: For it is plain, since the structure of the genital parts in the sexes differ, that the symptoms must also; likewise, that some symptoms are common to both, and others peculiar to each fex; it is easy to conceive also, that, as the parts affected, are more or less exposed, that therefore the remedies become more or less easy to be applied. First then of the gonorrhoea in the masculine gender.

Of the GONORRHOEA in MEN.

The gonorrhoea, takes some time before it makes its appearance, after the infection; being sometimes quicker, sometimes slower; seldom so early as within twenty-sour hours, and very rarely so late as after twelve days: But in general, four, or fix days, completes the confirmation thereof.

The fymptoms come on at first with an agreeable sensation, in the genital parts, in general; he feels an uncommon inclination to venery; the tefficles have a vermicular and a creeping motion; which fenfation, is not at all difagreeable, but helps to irritate and stimulate to venery; coition is executed with extraordinary vigour, and exquifite pleafure. This pleafure however is but of short durance; for that titillation, by degrees, degenerates into pain; the urethra begins gradually to discharge, first, a thin lymphatic humour; which increases apace, and degenerates into a tharp, stinking, purulent matter; the orifice of the urethra opens; becomes red, and inflamed; the urine at first, occasions a sharp titillation; but foon grows more and more hot, stinging, and cuts the urethra like fo many daggers: And now there is no room left to doubt a virulent gonorrhæa; that is, a downright clap. This is the commencement only, and meer childrens play, to what follows; particularly if the patient is young, fiery, of a delicate conflitution; and especially, if it is the first time.

Now the glans begin to be inflamed; the urine is discharged oftener than usual; and burns like a coal of fire in the urethra, particularly, immediately after the discharge thereof; this acute burning and cutting pain, becomes so intolerable, that it forces in the patient's physiognomy at that time, many unfavourable, and unfathionable features. This acuteness, prevents him letting the urine in a continual stream, so that it will come away in squirt meals, which adds not a little to the pain. This dysuria generally excites a fever; which (if the habit is otherwise inclined

to acrimony) often occasions an ischuria.

At this time the misery is augmented with a chordee; the penis becomes frequently erect, not only involuntarily, but in a most disagreeable manner; curved downwards, with an exquisite pain underneath, from the glans, all along to the perinæum; especially near and about the frænum.

A phimofis, or paraphimofis, and shankers, generally pay their attendance to the catastrophe. A phimofis, in those who have a long præpuce, becomes fo inflamed, as not only prevents the glans from being uncapped, but fometimes, fcarcely gives opening enough for the emiffion of the urine; and fwells up the member fometimes to a great bulk. A paraphimofis, in those who have but a short præpuce, which shrinks back, inflames, and fwells up behind the glans, contracts by the inflammation, and frequently conceals behind the corona glandis, a portion of the corroding virus; which, together with the inflammation of the glans, gives not only the greatest pain, but even fometimes becomes fo mischievous, as to put the member, and even the patient's life in danger. And as to the shankers, they are generally, the sharp phagedænic ulcers refulting from these inflammations.

Now the gonorrheea flourishes in its full bloom; and what, with the sharp feetid and virulent running, the scalding of the urine, the priapism, chordee, inflammation, shankers, &c. the patient

is fairly feated on the stool of repentance.

In this state the gonorrhoea is termed recent; and whilst it runs freely, not deep seated, and nature is not disturbed, so as to check the flux of

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the virus, without correcting it, the inflammation and other fymptoms, will gradually abate; at least, the disease will become milder: But if the virus is propelled into other channels, or obstructed in its course, it is plain, that it will spread its malignity to the neighbouring parts; as is too frequently the case, either from getting cold, &c. or wrong treatment. The fore-mentioned complaints are generally accompanied with a bubo, swelled testicle, or both together; and then it is high time, to guard the blood against an universal insection: But in all this, there are many exceptions, which shall be farther explained hereafter.

When the acute fymptoms have abated fome-what, either fooner or later, according to the constitution of the patient, or proper application, the seat of the gonorrhoea becomes more plain; and prognosticates either an easy, dissicult, or tedious cure; this case is even so slight sometimes, as to disappear, without the help of any thing: This, though true, I am scarce allowed to say; however, I must not forget to say this too, that whilst we can have proper remedies, nature ought not entirely to be depended on, in this respect; as there is no disease, more sly and deceitful than this.

If the decline of the virulent gonorrhoea is successful, the patient will not be long in being restored to perfect health again. The sever, inflammation, and dysuria, gradually subside; the patient makes urine with more freedom, and less pain; the purulent matter, which was before sharp, setid, and intermixed with blood and ichor, becomes now regular pus; loses the wa-

tery, bloody, greenish and deep yellow aspect, and becomes of a more pale yellow hue, and a regular thick consistence; next it begins to rope; at length it becomes clear, lymphatic, stringy,

and gradually disappears.

But this fortunate conclusion, is feldomer the case, than it might be, if care, prudence, and proper treatment, were applied. Irregularity, debauchery, anger, fear, labour, cold, &c. make a great difference; but nothing near fo pernicious, as unskilful treatment. When the dyfuria, priapifm, chordee, &c. continue, the cafe is troublesome indeed; the dysuria will become a strangury; and the patient fometimes, neither can make, nor retain his urine; and as it drops away, every drop burns like a coal of fire: The chordee is accompanied with an inflamed priapism, particularly at night after being warm in bed, and at times occasions most excruciating pain; which is not a little increased, by nocturnal emissions of the femen.

In these complaints, the whole perinæum will sometimes be inslamed and sore; and frequently exulcerate; the shankers will increase and corrode; particularly about the præpuce, corona, and glans, and especially about the frænum; the præpuce becomes sometimes hard and callous, so that the glans will not bear to be uncapped, and expose the set of these preying ulcers. In short, the whole penis will sometimes be in a perfect state of ulceration; and we have examples, both ancient and modern, that the penis has dropt off, in a sphacelus; and sometimes even extinguished the miserable life of the patient. Those calamities, however, are not indeed,

fo frequent now; but in lieu thereof, we find too often, many, with a continued running; and though 'tis called a gleet, yet it is, in fact, an old virulent clap; which is not only troublesome to the patient, if slighted and neglected, but en-

tails mifery on his innocent off-spring.

Let us now make an ætiological examination of the causes of these symptoms. How the gonorrhœa first forms itself, has ever afforded matter for much speculation; I have before given my opinion on this head; namely, that the miasm of the virus, is suck'd up in the urethra, in the time of flaccidity after ejaculation. This, however, is far from being the general received opinion; for it has been argued, that the infection is always received externally, and makes its way into the urethra; but I cannot well believe it to be general; for (though it may fometimes be the case) I never met with any one, who had a gonorrhœa, but had first ejaculated. I have indeed, been told of a debauchee, who, for fear that he should be caught, as he had a suspicion of the person he was concerned with, withdrew the member at the juncture of ejaculation, and emit-· ted, even at some distance, from the pudendum; yet, notwithstanding, contracted a most virulent gonorrhæa: I will not take upon me to contradict this; yet, cannot help thinking, that he must have given the first ejection within the vagina; which was fufficient to do the bufiness; and that then the member all befmear'd with the virus, was even enough to confirm the infection.

Be, however, the contraction as it may, whether from an actual fuction, or, whether it finds

its way through the tegument, through the corpora cavernosa penis, into the corpus cavernosum urethræ, and in the urethra itself; evident it is, that wherever it fixes within the urethra, the gonorrhæa takes its commencement; and according to the seat of it, becomes more or

less difficult of cure.

In general, the feat of the malady, is not above a couple of inches from the glans; and for the most part, on the under surface of the urethra: Yet sometimes, it is seated a great deal higher; though but seldom. But how comes it, that at times the whole urethra is ulcerated? This is seldom, or perhaps never the case from the first insection, or at the commencement of the gonorrhoea; but generally proceeds, either from the spreading of the virus itself, by the frequent erections, emissions, and slaccidities, or from pernicious injections.

Here again, it will not be amiss to mention fomething concerning the nature of the virus. It has been compared to the faline particles of cantharides: How far such a comparison holds good, I have mentioned before; and will here add, that it has equally as much resemblance to the acridness of Cayan pepper; Though I cannot see, how either the virus, or cantharides, came to be ranked amongst the appellations of salts; unless we could find no other name to convey an idea of tharpness: Indeed, languages are rather desective in conveying various ideas.

Onions and horse-radith, will remarkably affect the olfactory nerves; and draw tears into the eyes, by the pure effluvia, and likewise, have a peculiar biting stimulus in a fresh wound; yet, let

let us most diligently examine into the sharp, and stimulating particles in general; falts, acids, alkalies, caustics, corrosives, epispastics, apodacritics, sternutatories, &c. &c. we shall find, that all diffinguish themselves singularly in this particular, that they act momentarily, on the nerves at the first contact, and gradually abate; whilst the virus, on the contrary, begins gently, but encreases, and multiplies in its stimulating qualities. However, if we needs must make a comparison, I think the most rational is to that effect, which mercury has on the falivary glands,* and from this, there appears a great probability, that the infection received externally, may as well find its way to the glandulæ, within the urethra, by flow degrees, as the mercury, which by frictions, finds its way to the falivary glands. But to the progress.

From the fensation in the testicles, it has been supposed, that they, and the seminal parts, always were affected, from the first moment of insection; though this sometimes may be the case, yet I am far from thinking it general; but believe, that this sensation is rather symptomatical, from the immediate communication of all the parts. In like manner, happens the great stimulation to venery; and this is likewise easily accounted for; since the virus begins now to operate, with a greater force of irritation; consequently, the seminal parts, stimulated to a more copious secretion.

By this time, the miasm of the infection begins to prey upon the fibres; lacerates the small tu-

^{*} I mean comparitively with respect to the mercurial circulation; for as to the stimulus, their causes are as opposite as possible.

buli, and from thence they are fet in a more fecreting action, discharging the mucus, more plentifully; and thus the urethra, begins gently to weep; at first, a lymphatic matter; and now the gonorrhœa commences indeed: The parts inflame, the veffels ulcerate, and the miafm increases, and spreads itself to the neighbouring parts; in this state, the progress is comparable to an exulceration, caused by fire, cantharides, or caustics. For the inflammation spreading, and the farther continuation of exulceration, is not fo much from the quantity of the injury received, as the irritation and confequent stimulus it occasions; and hence from the various obstructions that it is liable to effect, the inflammation will extend to other parts; this is frequently the case, in the first state of the gonorrhoa: Hence the glans swell; the musculi erectores become irritated, and cause an erection; and from the contraction of these muscles, a priapism takes place; of which more hereafter.

There is throughout the whole animal œconomy, a peculiar fenfation, attending the first stimulation, which gradually lofes itself in the continuation thereof; and from this it is evident, why young people fuffer more pain, in a recent gonorrhæa, than old experienced veterans; it is not unlikely, that the spring of the fibres are stronger in this natural and found state, and not fo apt to give way to a relaxation, as in those who have undergone the fame violation before.

When the gonorrhœa is feated but a little way, up the urethra, 'tis eafy to imagine, that the cafe must be slighter, than when it is deeper; for the nearer the neck of the bladder, this malady is,

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the more it is of consequence; not only on account of the more principal parts then affected, but likewife, that the parts are more remote, and hide themselves, as it were, from relief, particularly by topical application: Hence, the gonorrhœa, which is near the prostate gland, the sphincter of the vesica urinaria, is generally more tedious, and fubject to many painful fymptoms; and particularly, about the caput Gallinaginis; which feldom fails of leaving a troublesome feminal weakness behind. But as I have observed before, it is feldom that the first infection is seated deep up; but from a spreading of the exulceration, fometimes the whole urethra will be even full of ulcerations, which either fill the urethra with a variety of carnofities, or elfe generate finuous, and callous cavities, by which perpetual fiftulous iffues are formed; and occasion not only tedious and troublesome, but even incurable virulent runnings.

Whilst the feat of the gonorrhæa is in that part of the urethra, from the glans to the perinæum, and properly managed, so that it does not spread farther, the symptoms soon subside; for nature is ever engaged to expel what is obnoxious; hence, when the small lacunal glands in the urethra, have by suppuration discharged the virus, either by the force of that act itself, or by proper application of medicines, whereby the corruptive quality of the miasm is corrected, and the reparation of the lacerated tubuli of the violated little glandulæ takes place, nature is gradually restored again to its former tranquillity.

When, however the virus has penetrated into the nervous tegument of the urethra, inflaming the small tubuli of that delicate substance, swelling them up, and stimulating the stamina of the nerves, it is easy to conceive, that the parts thereby become thortened; and thus, whilst it is more than ordinarily stretched, at the time when the penis is erect, must consequently give a contracted and spasmodic pain; and this is what is called a chordee. When the virus has found its way into the lymphatic vessels, in the external tegument of the penis, and stimulates the nervous and vesicular fibres in that part, we see the reason of the phimosis, and paraphimosis.

If the virus is propelled into the inguinal glands, through the numerous lymphatic ducts, which make the immediate connection between these parts, a bubo, either in one or both groins, must be the result. But if the virus takes another course, along the vasa deferentia, a hernia humoralis, or swelled testicle, must be the consequence. And lastly, if it finds its way into the blood, or is lodged on any other part, the consequence.

quences in proportion must be obvious.

In regard to the gonorrhœa however, the virus too frequently spreads its infection upwards, to the neck of the bladder of urine; and the organs more immediately concerned in generation, are attacked; which confequently makes the cafe more important. The Cowper's glands near the proftate, frequently are the fufferers; and which, as their fecretion is somewhat more elaborate than the small lacunal glands, the matter which they yield, takes more time, and confequently becomes more corrupt. But the prottate, which is a most material part of the generating organs, is still more complex, and of greater consequence; and when the virus has taken there its destructive abode, then I fear the prolific virtue of the femen is in danger of being destroyed. For fince the vasa deferentia ferentia strike part of their course through this important gland, and to all appearance, receive some assistance towards their function, it cannot fail of affecting them; and they of course, will

again infect the veficulæ feminales.

A gonorrhæa of this kind, requires judicious treatment; for it ends, not only too frequently in an obstinate running, which has at times bassled the most skilful, but sometimes has occasioned the so much dreaded imposshume in the perinæum; and of how precarious and difficult a cure this is, I leave to the determination of those surgeons who have had this troublesome task in hand: Yet, as I have been successful in this operation, I shall, in a proper place, communicate the method I have pursued.

A gonorrhæa, not less grievous than that now mentioned, is, when the virus has attacked the caput gallinaginis; the structure of this part I have described in my first part; and it is easy to conceive, that when these valves, the porters of the seed vesicles, are destroyed, an obstinate seminal gleet, must unavoidably be the consequence; even after the correction and discharge of the virus.

But when the virus has feated itself in the sphincer of the urinary bladder, it becomes very pernicious to that part; for it is then, that the most troublesome strangury is the result: But besides this, an exulceration of the sphincer, seldom fails of leaving an incontinency of urine behind; at least, for some time, 'till the proper tone of the sibres is again restored. There is scarcely a more acute pain, than an inflammation of the bladder; particularly that of the venereal kind.

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I have been particular in the various progresses of the gonorrhoea, in order to communicate a proper idea thereof; but lest I should become tedious, will hasten towards a conclusion. We will therefore now consider the nature of a gleet.

Of the GLEET.

GLEET, according to the meaning thereof, should only be a relic, or weakness left behind, after a virulent gonorrhæa. If fo, it is not of a very evil tendency; as it is nothing more than the draining of the fmall tubuli, like that at the end of every ulceration, just before the cicatrifation of the mouths of the veffels, which are just shutting up. If the feat of the virulent gohorrhœa is not deep, and only in the lacunal glands, a real gleet will not last very long; since, the fecretion in those parts is but sparing, unless stimulated; but it must consequently continue longer, if the feat of the difease is deeper in the urethra, in Cowper's glands, proftate, and in particular, about the caput gallinaginis; however, most remarkably fo, if in the veficulæ feminales, &c.

But was this the case, when a gleet is made mention of in the general term, there would not so many grievous consequences be the attendants thereof. I don't mean here the seminal gleet, (for of this I shall treat of by itself) but the continuation of the virulent gonorrhæa, without any sensible pain to the patient, which in sact, differs nothing from the recent, except the inflaming symptoms; and that the miasmatic particles have

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lost their stimulating quality, so as to become more naturalized to the parts. This is the true state, as long as the running has any thing remaining of

the purulent nature.

And here it may naturally be asked, whether a gleet of this kind, without any virulent fymptoms, that is, fcalding of urine, pain in the urethra, bubo, &c. is infectious? Most undoubtedly it is: Yet, with this difference, that as the virus at that time is not of fo acute and ardent a nature. it is not fo liable to infinuate itself in general. When a man, however, labouring under fuch a gleet, copulates with a woman to whom he is not accustomed, and whose parts are delicate, and liable to become the least galled by coition, she will certainly receive a virulent gonorrhoea, with all its terrible confequences: A woman with whom he has an habitual cohabitation, is not quite fo fubject, on account of the agreement of parts. But on the whole, a gleet of this kind, that is, where there is the least appearance of purulency, is by no means to be truffed, neither as to the patient himself, nor in regard to infecting of others.

The real gleet, which may, whilst in that state, be pronounced innocent, as to infection, is, when the discharge is transparent, clear, glutinous and ropy; which then with good management may soon be cured; but if neglected, very easily relapses into a virulent gleet again.

There is one thing more to be observed in regard to gleets, particularly of the purulent kind, and that is, that they ought to be considered as an issue. Now, it is an observation, agreeable to

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the true principles of physic, that, the drying up an issue, ought to be done with the greatest circumfpection; for whilst nature has made an habitual drain of that part, which is kept as an open ulcer, there is undoubtedly a discharge of acrimony; which, if not corrected before the closing of the drain, might do great mischief in the blood, or be detrimental to other parts where it might be fubject to fall upon. I am far from being an advocate for issues of any kind, or in any circumstance; as I am firmly of opinion, the body is by many odds better without them; but when they are actually there, whether by nature or art, particularly of any time standing, they had better, by all means continue, than be healed up; except the acrimony of their discharge be first corrected, and the blood guarded against an infection from them. this is a caution of moment to health and even life, I am convinced of, from the many dreadful confequences I have feen, owing to injudicious practices in that respect.

There is something so very gentle in the sound of a gleet, that the patient is very little concerned at it; and too frequently, less so, the practitioner he applies to: For my own part, I had rather cure ten recent virulent claps, than one old standing gleet. The sountain of the evil is sometimes deeper, than the best of us is aware of: It may indeed be stopped, but we ought to have a care, that the remedy proves not a much worse evil than

the difeafe.

Having thus made a definition of the nature of the malignant and benign gonorrhæa, or habitual gleet, I shall now give my opinion on the

the question, which is still in debate amongst phyfiologists, Whether the virus acts upon the folids or fluids?

To discuss this question properly, it must be observed, that the fluids and solids are so intimately interwoven with each other, that they feem to be linked, as it were, in one continuation; and this is most perceivable in the leanness and fatness in the same subject. On the one hand, it is evident, that the virus is fixed fometimes in one place, and by its exulcerating quality, it is plain. that it acts upon the folids: On the other hand again, it is fuddenly transported to some other part, where it will act with all its power. This transposition is naturally supposed to be effected by the lymphatic ducts or the blood: But to this, it is objected, that in the gout or rheumatism, the malignity of those diseases, will be transported from one member to another, quicker than poffibly the circulation can do it: And this too is frequently the case in the confirmed lues. Now, that this fudden transposition, is by means of the nerves, I think, most evident. It is an observation highly useful in physic, that an acrimony will stimulate the folids, and that that agitation of the folids, will make their containing humours acrimonious; fo that each has an equal power over the other, as their action and re-action are equal, From hence I deduce, that the virus may attack both; that each may infect the other; and that it is liable to be transplanted from one part of the hody to another; not only by the fluids, but alfo by the folids; and particularly by the nerves.

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Another question is, Whether the femen virile is infected in the gonorrhoea? In regard to this, it depends much on the state the disease is in : In the first state, when the inflammatory symptoms are in the height of action, I apprehend, not only the semen is affected, but more or less, the whole body: For from whence elfe should come the fever, dyfuria, and other fymptoms of the diforder? But as the gonorrhœa gets vent, the miasm gradually discharges itself, and the symptoms subside. It is most certain, that the semen virile has altered its hue, at the height of a virulent gonorrhœa, towards a yellow cast; and I make no doubt, but that it is fo far contaminated, that, should it even retain its prolific virtue, and make the woman conceive, that then the fœtus from fuch a conception, would have the confirmed lues in its composition. In like manner, if the gonorrhœa has its feat in the proftate gland, or in the feminal veficles, the thing fpeaks evidently for itself. But except those circumstances, where the feat of the gonorrhœa is but a little way up the urethra, (as is for the most part the case) the feed remains generally untainted. And though it is an hazard, that no man or woman of reflection ought to run, yet we have instances of fathers, who for years laboured under a gleet, even of the purulent kind, who had healthy children: But we must remember this too, that fuch instances are but rare; and that those troublesome cases, bring diseases on their offspring, is too obvious, and almost an universal demonstrative consequence. For in the ejaculation, if the feed is ever fo pure, it is scarce possible, but that it must take something thing of the purulent matter, from the feat of the gonorrhoea along with it; and if the virus is acrimoniously active, the consequence is plain: But if more mild or less active, nature, which ever opposes and endeavours to expel what is obnoxious, may become superior, and protect itself against the invasion.

It is almost needless to mention, what natural prudence dictates, namely, that the urining before coition in that case, renders the semen more pure than otherwise; and if the gleet is mild, and the two habits, that of man and woman, are become naturalized to each other, there is certainly less to fear; but to abstain 'till nature is restored to its primitive health, is the only precaution; the true

fafe guard to health, and peace of mind.

On the whole, however, the opinion which has greatly prevailed among many great men, that the gonorrhoeal discharge, and the gleet, were always contaminated feed, is, in my opinion, point blank erroneous; for unlefs, as I have demonstrated, the feat of the malady is in the feminal organs, that is the proftate, vafa deferentia, or the , vesiculæ seminales, the feed has no more share in the gonorrhoeal matter, than the faliva itself. That the discharge is plentiful, is neither surprifing, nor difficult to conceive: The gonorrhoca is an ulcer, from the venereal miafm in the urethra; and every ulcer discharges more or less, according as the ulcer is stimulated, and the parts ulcerated are glandulous: In what manner this happens, I shall offer my consideration at another

There occurs to my memory, a circumstance yet, concerning the gleet, which, I think it requifite to mention in this place; namely, that whereas, a young man in the bloom of youth, eafily contracts the gonorrhoea, and fuffers much more by the acute fymptoms, than an old experienced veteran, (who is neither so easily infected, nor suffers fo acutely) fo likewife, there is a great difference in the cure of these two kinds; namely, that the first gonorrhoea is easier cured, if properly manage 1, than that in an old offender; and that, from the fame reason, as all old fores, which are again renewed: For it is remarkable, that where the gonorrhœa has feated itself the first time, it will ever after place itself again; and the oftener the fore is broke open, it follows plainly, the more difficult it will be in healing: Add to this, that a gonorrhœa may be contracted in a new place, besides the old, and confequently new and complicated fymptoms arife. This, though general, is not however without exception; for nothing (if proper means are applied) contributes to a speedy cure more, than the constitution itself.

Writers on the venereal disease, particularly Dr. Astruc, mention other kinds of gonorrhoeas, as the spurious; namely, an external discharge from the glans; but this kind, I humbly conceive to be shankers, or little ulcers from the cristallines; which shall be treated of in their proper place. There is also the dry gonorrhoea, that is, when the running has ceased, but the scalding of the urine remains; however, this is plainly a dysuria. So far though, we may consider a species of a dry gonorrhoea just, as relates to a suppres-

tion :

fion; namely, when the virus has taken its flight, toward the groin, testicles, or other parts; and fome time after, by its return, fets the clap agoing again. In this suppressed gonorrhæa, it is not always a rule, nor necessary, that the running should return, though this has been strenuously recommended: but it is known from experience, that it could not always be effected, and frequently the patient has got well, without this return: for when the parts in the urethra are healed up, the virus is thereby flut out. A bubo in that case, is not so very bad to deal with; but when the virus of the suppressed gonorrhoea, takes up its abode in the tefficles, it behaves fometimes very incorrigibly. Nay, what is not a little furprifing, the virus of a fuppressed gonorrhoea will take its flight to the eyes: Had I not met with an instance of that kind, I should not have been without some doubt of this; yet fo it is: And I think, a plain proof, that the folids may be conveyers of the miasm, as well as the fluids.

When the suppressed gonorrhoea remains with a dysuria, a chordee, or priapism, it is plain the ulcers in the urethra are yet open; but from the retroaction of the sluids, the virus has taken a reverse way; and a return of the running, is by all means necessary; but if this suppression is without acute symptoms, we may reasonably suppose it to be healed up, and the death of the poison must be aimed at another way,

I do not at present recollect any thing more of consequence concerning the gonorrhoea, or the gleet, proper to be taken notice of in this place; as this is only meant as an ætiological description

thereof,

thereof, I shall therefore proceed to give a defeription of the simple gonorrhoea; though, in reality, it is generally excluded from the inquisition of venereal ailments. Yet, as the venereal gonorrhoea may give birth to it, and that it is an ailment not less grievous than the former, I shall not only venture an examination, but also, in its proper place, give recipes of relief, sounded on reason and success.

Of the simple GONORRHŒA, or seminal GLEET.

A CCORDING to the etymology of a gonorrhoea, one might be apt to suppose, that the
seminal gleet was the original meaning of it; and
this the supporters of the importation of the venereal disease, value themselves upon. But if the
modern physicians, have pronounced the virulent
gonorrhoeal running, to be corrupted semen,
which in itself is nothing but virulent pus, the
same as from any other ulcer, (in general) we need
not wonder that the ancients, who certainly knew
less of the matter than we, should have thought so
too.

A feminal gleet may proceed, either from a virulent gonorrhoea, from excess of venery, self-pollution, or other infirmities. Let the cause however be what it will, there is no drain, which steals the quintessence of life and strength so gradually, and effectually, from the animal occonomy, if continued, than this fort of gleet. In regard to the seminal gleet, occasioned from the venereal

venereal virus, we have somewhat largely considered this before, namely, the attack of the virus in the prostate, verumontanum, vasa deferentia, or vesiculæ seminales; but, besides these attacks, the hernia humoralis in the testicles, from the venereal virus, may also bring on this gleet. Be however what will the cause, the effect is either an ulceration of the parts, or else a kind of lamenes; whereby the semen not only wants proper concoctions, but it is also, neither properly re-

tained, nor forcibly ejected.

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A real feminal gleet is eafily distinguishable, from, either the virulent gonorrhoea, or the habitual purulent gleet; In this there is no fymptom of real pain, except a disagreeable weakness, and a dull pain about the neck of the bladder, and in the loins; the semen comes away insensibly, continually a little, but particularly when going to stool, from the force requisite for the exclusion of the sæces. The penis is often inclined to erection, but not in a manner so forcibly, as usual; and the semen is easily ejected, but without that vigour which is requisite to procreation; which, in lieu of a white semitransparent, and rich consistence, is humid, thin, and of a bluish cast.

At the beginning of the disease, there is great inclination to erections, and the emission of the semen seems attended with pleasure; but gradually the penis becomes lame, and as it were, neither slaccid nor erect, hanging lifeless down between the two sizes, of erectness and flaccidity; the testicles hang lower than usual, and unless they are

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otherwise suspended, become almost a burthen to the possessor; gradually a pain in the loins, about the os facrum, begins to make its appearance, which soon extends all up the back; the calves of the legs fall remarkably away; the eyes look hollow and heavy; and the whole body begins to take on a tabid appearance; he begins to loath women, and every thing which afforded him pleasure before; a continual tabid sever comes on; first, with the tabes dorsalis, a continual pain in the back, which extends to the head, breast, and bowels, attended with a drought, and univertal lassitude; and at length an hestic ends the tragedy.

If the patient on the first apprehension of this malady, seeks for timely remedy, and keeps a regimen of life, according to good sense and rational advice, the case is curable enough, and in general, far from a difficult task; but too often is, either from a mistaken modesty, or indeed from a guilty conscience, concealed, till frequently it is too late to repair the ruined constitu-

tion.

That it is a consequence sometimes of a virulent gonorthæa, has been sufficiently mentioned; but most generally it is the attendant on excess of venery, whether nature is strained beyond its due elasticity, either by spermatopoetics; or from the forcing lascivious exercises. Excess of venery between the sexes, in the natural way, is not so much subject to produce this evil as private pollution: It is idle to make many invectives against this sin; the consciousness thereof is implanted in the human breast from the earliest The question is, how thall we remedy it? for, because it is a wrong against nature, it is kept a secret; and how shall we be able to help the evil, we can neither discover nor detect, or make the transgressor consess; but what is even worse, it will be in vain to persuade him to leave off

this evil and habitual practice.

There are also accidental causes which may bring on this seminal gleet: A sudden list or strain, a profuse sweat, hard straining in a costive stool, hot clysters, strong diuretics, stale malt liquors, convulsions, drunkenness; and most particularly when the seminal vesseles are filled with semen whereby they are liable to a spermatocele, or seminal rupture. It likewise has been occasioned from nocturnal emissions, when the patient in his dream has had an impersect coition; for a disappointment of ejaculation, whether in sleep, or in reality, is almost as powerful as any other cause mentioned, to occasion this gleet.

Why the feminal gleet should be attended with such evil consequences, I think may thus be accounted for: That, as the semen is the most nervous, and elaborated humour in the body, consequently it drains the blood, and nutriment, the more of the sustenance peculiar to the support of the nerves; and whilst it is wasted, it cannot but waste the nerves, consequently the main spring, or primum mobile, of the whole animal machine gradually decays. And as the genital organs suffer sirst, and they, receiving their nervous ramifications from the medulla spinalis, by the crural nerves, par vagum, and cauda equina,

equina, springing out from the facrum, it is clearly conceived what occasions the pain and weakness of the loins; and from thence the tabes dorfalis takes its commencement: And at length, if the ailment is continued, that a consumption

must, and always will be the consequence.

It is likewise of consequence to examine into the progress of this feminal flux. The organs of generation have an intimate and fympathetical contact with each other, fo that whatever parts are affected, the rest share and partake; the seminal organs, however, rule the rest: The testicles are the chief, as generaters of the feed; and if the communication of them with the rest is cut off, the spasmodic secretion, excretion, confiriction, pleasure and defires must of course leave off: Hence an eunuch is a stranger to venereal passions, (and consequently every other manly paffion) because he has no feed; and no feed, because no testicles the organs thereof, though he is not deprived of the veficulæ feminales; but fince they are become useless, they are merely shrivelled up, and scarce perceivable in the subject. Again, when the veficulæ feminales are filled with femen, the fabric of the penis is ready for an erection; but when this erection is often repeated, it is plain that the muscular fibres must lofe gradually their elafficity. When the feminal veficles discharge continually, there will of course be a continual propensity for filling them again; for by their emptiness there will be a perpetual fuction; that is, where there is an excretion, there must be a secretion. Hence the elaborating organs, the spermatic vessels, the epididymidæ,

didymidæ, and the tubuli in the testicles, from their continual irritation to work, and not being supported by the nerves, lose their strength, become weak, and fuffer themselves to be stretched longer than usual; and thus, from a relaxation of the spermatic vessels, and the vasa deferentia, by which the testicles are suspended, and the weakness of the cremaster muscle, the testicles fink remarkably low, and become almost a burthen. From this the vafa deferentia, the caput gallinaginis, &c. becoming relaxed, and unable to retain the feed, let it pass into the urethra before the veficles are quite full; from thence, likewife, the musculi penis become sluggish, and the penis has little or no erection; and, from the same reason, the fibres in the corpora cavernofa, having their contracting powers much diminished, the penis will neither become properly erect nor flaccid.

At length, the nervous humour being drained from the fluids, the weakness spreads over the whole body, impairs the strength and faculties in general; till a sever, the last effort of nature, closes the scene.

From this description we shall be able to see the rationale of the cure, when we come to treat on that important part; as it will plainly appear, that it differs widely from the virulent gonor-rhæz in its evil, and must consequently in its cure. Having thus examined the various stages of the gonorrhæa in men, we will next consider the same maladies in women.

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Of the virulent GONORRHŒA in WOMEN.

HAT there is a manifest difference between the feat and fymptoms of the virulent gonorrhæa in women and in men, must be obvious; in what however it confifts, is here to be examined. Whilst the urethra is the feat of the difease in men, so principally the vagina, is that in women; from whence the whole pudendum foon partakes of the fymytoms and infection. The approach of the symptoms is much of the fame nature in women as in men; with this difference however, that they rather appear quicker, and feldom rife to fuch an inflammatory height. This is eafily accounted for: First, their fibres are more delicate, and therefore the fymptoms fooner appear; fecondly, they are laxer, and therefore easier give way, whereby the inflammation is checked; but on the other hand again, from the fame reasons, the discharge is more plentiful.

I have observed in the preceding, that the symptoms in a gonorrhoea, are in general, more acute the first time; but this is more remarkably so in women: For whilst a young woman, for the first time, shall suffer much, an old offender shall scarce know it is so, but from other symptoms, and that she has already propagated it.

However, in general, it makes its appearance more or less in the following manner: About two, three, or four days after the infection, the patient feels, from the irritation of the miasm, an

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inclinations for coition, but this irritation foon degenerates into pain; the feels a pricking, shooting, and constrictive pain within the vagina, fo that the cannot fuffer coition but with the utmost difficulty; for the vagina from the inflammation, is fore and confirieted, from which it is become narrower and more turgid at that time than usual. From the irritation likewise, the clitoris becomes erect, and the labia, alæ, and carunculæ myrtiformes, fwell up; but, like the inflamed priapism in men, fore and painful. The urine begins to be hot, and foon scalds, particularly afterwards, fo that the patient dreads making water; which however the is obliged to repeat oftener than usual. She feels a contractive and painful fenfation, from the mons veneris up in her body, about the hypogastric regions, together with fome creeping motions within the fides, about the hips, as also some dull pains in her loins across the facrum; which is occasioned from the stimulation of the virus in the clitoris, and communicated to the ligamenta rotunda, and the irritation given the uterus and ovaria. The running, or discharge, is at first lymphatic or flimy; next, watery, sharp, feetid and bloody; and at length becomes a deep yellow (fometimes inclining to a greenish cast) purulent, fœtid, and a copious discharge. The said had some from said

If the gonorrhoea is of the ordinary kind, and nothing interrupts the course of the discharge, the acute symptoms foon abate; the inflammation, constriction of the vagina, dyfuria, tumefaction of the pudendum in general, spasmodic contraction of the clitoris and ligamenta rotunda, gradually fubfide; and if proper remedies are applied, applied, the purulent discharge will gradually verge towards a white and slimy confistence, till it becomes transparent, ropy, and at length dis-

appears.

The feat of the gonorrhæa is chiefly in the lacunæ in the vagina; but fometimes it will be feated near and in the sphincter of the vesica urinaria, otherwise called the prostate, or else in the lacunæ, feated about the clitoris; at other times it will be feated in the Cowper's glands near the perinæum, which are but lacunæ with the rest. Be however the feat where it will, it makes but little difference, as long as the place may be come at; but the worst seat of all, is within the uterus, or the os internum, whence the evil is not fo easily removed. That the feat of the gonorrhœa may be judged in the uterus, may be gathered from the tharp burning and flinging pain they feel there; and which is followed by a more than ordinary quantity of fœtid ichorous and bloody matter.

Women are in general more subject to shankers than men, on account of the great quantity of matter they discharge, and particularly if they are not very cleanly; but they are never so obstinate in the cure, if properly managed: They differ, however, greatly in this respect, according to their situation. Ulcers are more painful, and difficult to manage, in the clitoris, the os internum, the carunculæ myrtisormes, or sphincter urinaria, than those in the alæ, or labiæ; because the first mentioned parts are of a nervous and tendinous texture, whilst the latter are more relaxed and vesicular; and therefore

not so liable to constrictions, consequently yield eafier to the applications, and more readily cicatrize. But on the other hand again, fince thefe fofter parts are more compliable, they are for the fame reason peculiarly subject to fungous excrefcences; the nature of which we shall more fully

explain in another place.

Let the feat of the first infection or the recent gonorrhæa, however, be where it will in the pudendum muliebre, the virus is liable to be propelled, and diffurbed in its course, the same, and from the same causes, as mentioned before with men; hence, females have buboes as frequent as the other fex. It would appear abfurd to fay they are likewise subject to swell'd testicles; yet, what is the same with them, the ovaria, suffer frequently not a little; and I make no doubt, that there is at times as great an obstruction in these organs, as in the male testicles, if we may judge from the heavy complaints made fometimes of those parts, and the symptoms that evidently indicate fuch obstructions.

That the virus is liable to be propelled to the uterus, I apprehend no one will make a doubt of; but I am afraid it is not in general paid fo much attention to, as it deferves; and from the want of a strict regard to these circumstances, many women have not only laboured all their lifetime under the virulent gonorrhæa (under the name of the whites) but either become barren, or else brought forth children, objects of misery

and pity.

Women are subject to many infirmities, which, though at times are much in their favour, yet lay 1, 2 them

them in general under many disadvantages; and from whence even the most experienced will have difficulties to judge properly of the many ailments incident to the fex, either from their complaints, or from appearances: They are likewife subject to be imposed on (which at times they are most grosly); but the artful of the fex, in their turn again, have it greatly in their power to baffle and deceive the most fage Æsculapian: How eafy it is, in general, to perfuade an innocent and virtuous woman, who unfortunately has contracted a virulent gonorrhæa, that it is only a sharp fluor albus, or the whites, I appeal to unfaithful husbands; and that fometimes the most curious examination cannot distinguish an inveterate clap from a fluor albus, if the woman will deal cunningly, I appeal to the experienced furgeon.

The fymptoms of an incipient gonorrhœa fooner subside in women than in men, and a woman is certainly easiest cured; yet, with this difference, provided the is young, and carries no remains of former injuries, either from claps, miscarriages, or other female weaknesses; otherwise, the cure becomes too frequently but fuperficially fo; for then, to do it properly, is a more difficult task than we are generally aware of, at least by the common method. Thus much on a recent gonorrhœa in women. I shall therefore, in the next place, proceed to the inveterate or habitual gonorrhœa, which is of greater consequence, and most difficult to be acquainted

Two kinds of the first week about own

Of the HABITUAL GLEET in WOMEN.

IN order to make a proper diagnostic distinction between the virulent gonorrhæa, particularly, when it is become habitual, and inveterate, from the fluor albus, or the whites, it is but right, we should have a just notion of both: In regard to the first, it is the continuation of the gonorrhœal ulcers, with this difference, that the phlegofis of the pudendum in general, the dyfuria, painful copulation, &c. before described, have abated, but the discharge flows as plentiful as ever, and is become purulent; however as to the latter, namely, the fluor albus, it is not only produced from various causes, but is attended with fo many different fymptoms, and puts on fuch a variety of appearances, that there remain but very few characteristics to distinguish it from the habitual purulent gleet.

To treat on the various causes, and the nature of the fluor albus, might make a volume of it-felf; I shall therefore not pretend here but barely to give the outlines thereof; yet, though concise, I hope sufficient to answer the purpose. The fluor albus signifies à white slooding; this indeed is its appearance, if, of the mild kind; but from this it will vary, not only in colour, but likewise in consistence, according to the causes of it, and-

the habit the body is in.

The causes from whence this flux may be produced, are many; but they may be distinguished into two kinds: The first, from a weakness of L 3

the fibres, and the tubulæ from whence it is discharged; the fecond, proceeding from some injuries, when those vessels have been, by whatever cause, lacerated, and thus continue in a state of ulceration. To understand the first kind, it is requisite to examine the catamenia, or mensural discharge, since the fluor is a production

from the fame tubuli.

The catamenia is the monthly discharge from the pudenda in women whilst unpregnant. It generally begins about the age of fourteen, and lasts till between forty and fifty; the time that nature defigned them for generation. Most generally the interval is about a lunar month; the time it is on them, is as various as the quantity they discharge; in general about three or four days; and the quantity about eight or twelve ounces. With fome there are various preceding fymptoms, fuch as head-ach, pain in the loins, and in the breafts, a short breathedness, &c. with others, it appears without giving any previous notice, except the flated exact intermediate time. With some it will have the appearance, and is in fact nothing but good blood; with others, it will be watery, sharp, different colours, and even fometimes very offensive: And yet, under all these different appearances, the patient appears frequently healthy.

There are curious problems of physic under this head, which remain unsolved; which however the limit of this work will not admit to enquire into, (viz) Why this flux is peculiar to the human species? The cause thereof? &c. It is sufficient for our purpose, that it is drained from .

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the officula of the hypogastric and hæmorrhoidal ramifications, which spread themselves within the uterus and the vagina, according to the period

prescribed by nature.

That it is not from an overflowing of a plethora, as many have afferted, is, I think, very plain; fince weak, delicate, and thin habits have generally more of it, than fanguine and robust females: And that it is thought to be owing to an internal fermentation, is equally in my opinion, as great a mistake; fince nothing is more prejudicial than bad digestion, strong emotions of the mind, and whatever causes a feverish walling in the blood; moreover, working, and hard labouring women have least of it; even so, that it has quite disappeared in appearance of blood, and yet they have remained in perfect health: That it is neither actuated by lunar influences, is likewise plain; fince every woman has her stated time, regardless of the changes of the moon. And laftly, that it is only peculiar to the human species, is neither founded on firice observation: for apes, who somewhat resemble the human species in their genitals, have it very regular: But befides this, every species of animals, particularly quadrupeds of the domeffic kind, have been observed, that when the females have, by a natural instinct, been desirous of copulation, a humour has oozed from the genitals, and repeated at certain periods, till impregnated; add to this, the less exercise such animals have, the more fuch discharges have been.

On the whole, it appears to me, that this monthly discharge of the catamenia, is destined

by nature to open the female organs for gestation; in order that the osticula of the wonderous fabric within the uterus, may the better receive the adherence of the semen virile in coition; as it is allowed on all hands, from experience, that a woman readier conceives immediately after

the menses than at any other time.

In the general course, the catamenia approaches with the following appearances, or rather fymptoms; a day or two before the pudendum is more than ordinarily lubricated with a lymphatic mucus: This proceeds from the congestion of humours towards these parts, whereby the officula of the lymphatic ramifications in the uterus, but particularly the lacunæ, in and about the vagina, are urged to a more than ordinary fecretion: For the most part, a pain, or at least a difagreeable oppressive sensation, is felt in the loins; this is caused by the plenitude of humours accumulating themselves in these parts, and must give a preffive fenfation to the nerves; which take their origin from the facrum. Then the flux makes its appearance; which continues'till with a proper elafficity of the fibres, they are admitted to contract themselves again; when the discharge ends gradually with the lymph, and disappears.

This is the general state in health; but if the habit of body is acrimonious, the sibres from the congestion are oppressed, and the slowing is retarded; hence, the pain in the loins, and the pubes, head-ach, &c. is greatly augmented; and since the humours, in some measure, are become stagnated, and slow but sparingly at first, the proper crassamentum of the blood is lost; and

hence

charge,

hence it will, when it begins to flow, appear quite different from pure blood: To this we may add, if there be an intermixture of bile, either from ill digestion, or emotions of the mind, (to which the fex are more subject than men) the humours will the more incline to a putrid acridness; and hence, in such habits, the menstrual discharge, will at times become of a malignant nature. This gave rise to the ancient assertions of poisonous qualities in the catamenia.

When either with the addition of the fore-mentioned, or exclusive thereof, the fibres of the generative organs are in a state of relaxation, the slux will continue longer; and as they, from such weakness, have neither power to discharge properly, nor constrict themselves from the influx of humours, till the proper period arrives, they will remain oozing for some time after the menstrual discharge; and this is properly the fluor albus.

Whilst the fluor remains simple without any painful inconvenience, it is white; much resembling a milky cream, and tends only to weaken the body: But if accompanied with an habitual acrimony, it will lose this savourable consistency, and turn humid, sharp, and seetid; when it will be liable, not only to crode the parts it flows from, thereby give them an ulcerous aptitude, and thus make the fluor of a purulent aspect; but if repelled, taint the whole mass of blood, with pernicious acrimonies, and be the author of many grievances.

The fluor albus, whilst in the simple state, seldom succeeds the catamenia immediately; since the natural inclination of humours in the dis-

charge, has avoided going to these parts for a while, but it soon appears again: Nor does it slow in the mentitual discharge itself; since the slux is too successive, to admit of time requisite to the transmutation, from a sanguine colour, to that of a lacteal: Various authors argue a production of the sluor albus from lacteal vessels; but I humbly conceive such lacteal vessels, in the organs of generation, exist in their imagination only; for that the blood easily becomes of a pussy white, we experience daily in the act of suppuration; and that the sluor albus is generated by a suppurative concoction, (if I may be allowed the phrase) I think is demonstratively clear.

Be this however as it may, certain it is, that the fluor albus is an infirmity attendant on delicate, and fedentary women chiefly, and from whence they become valetudinarians; whilst women of a more robust mould, and who use moderate exercise, are for the most part strangers to it: This is one of the blessings the blooming rustic country lass possesses, in preference to

the pale and delicate fine lady.

The fluor albus in its infancy, is generally eafily remedied; not indeed so much by the help of gallipots, as moderate exercise, and a good regimen; but if it continues, it will naturally increase; whereby the body will be weakened, and contract a lassitude; the animal spirits be exhausted; the blood lose its spissitude, and become impoverished; the habit cachexious: The mind whimsical, peevish, and have strange longings, like those attending pregnancy; the eyes become weak; the ancles swell in the day, and the face

is bloated at night; at length commences and cedematous pituity from the ancles gradually extending upwards; and a marasmus, or an af-

cites frequently ends the scene.

The evacuation of the catamenia, generally at first, is somewhat irregular, 'till nature is brought into its proper channel; in like manner is the fluor albus, 'till it is become habitual; with most women it will soon come on very regularly, between the periodical time of menstruation; with others again, observe no regularity at all; but some however, will labour under it continually,

even in the time of the menses itself.

When either by an overflowing of bile, (as it is termed) or otherwise, the fluor is become acrimonious, it will cause disagreeable sensations about the various parts of generation, as well in the matrix, as in the pudendum in general; occasion a heat of urine, and pain in the loins, and pressure at the pubes: This however, does not continue in general, but comes on and goes off irregularly. Sometimes the sluor will be purulent, sometimes of a sanious hue, sometimes of a deep yellow, green, or brownish cast, and even at times black.

In this state the patient is frequently troubled with rheumatic slying pains in various parts of the body; sometimes violent itchings in the skin, attended with blotches and pimples, frequently on the face; particularly in the forehead, yellow scales will appear, and even sometimes an achor all over the head. At length, if not remedied, the patient sinks gradually into a marasimus, or hectic

hectic decline, attended with a malacia, and univerfal feebleness, 'till gradually the dropsy and

death closes the whole.

Such are the confequences which gradually may proceed from female weaknesses; whether from obstructed menses; leucophlegmatic habits, chlorosis, hysterics, &c. or even a sedentary life; and to which the semale sex in general, young or old, maids or married, chaste or lewd, are liable.

But there are other causes of a more absolute nature, from which evacuations, under the name of sluor albus, (though from their nature, ought to have different appellations) take their origin: Namely, when the discharge is of the purulent kind, and caused by lacerations of the reticulary osticula in the uterus; or the lacunæ within the vagina, or pudendal parts in general: Such a discharge is evidently the production of actual ulceration; which in sact, can differ very little from the inveterate gonorrhæa, except in the method of its sirst being contracted.

Now fuch a purulent fluor, may be occasioned by many different means, (viz.) from excess of venery, miscarriages, disticult labours, or other injuries received, either in the uterus or vagina,

exclusive of the venereal virus.

In regard to excess of venery, this has been explained before; to which I shall here add, that nothing contributes more to emaciate the best constitution than this; besides, this pernicious kind of sluor is generally universal; as well in the uterus, from the continual strains the uterine organs are subject to, from the violent agitation of repeated venery, as also in the vagina, and pudendum

dendum from the ulcerous discharges, occasioned by the repeated friction, together with the straining of the parts; and I defy the most experienced surgeon to make a distinction between this kind of ulceration, and an old standing clap, by the most scrupulous examination: except the cause of it is communicated by the patient herself.

Miscarriages are liable to occasion great mischief; and I'll maintain it, that a woman runs more risk of being ruined by one miscarriage, than ten natural parturitions: For, as the embryo, or fœtus, is intimately united to the uterus, even fo as to continue the circulation of humours, betwixt that and its contents, it is plain, that a feparation, before a natural maturity, must occasion a delaceration of the delicate anastomofation of the reticular fubflance of the matrix. and the unripe placenta; particularly if some fuperwife midwife lends her officious affifiance, to tear it away by main force, and next drenches the poor patient with the most powerful emmenagogues. The injuries received from fuch miscarriages, (but rather indeed from unskilful ,affiftance) are too obvious; an habitual purulent fluor too often follows the patient for life, with all the fatal attendants thereof.

The evil consequences of hard labours, need scarce be mentioned; too well known from sad experience. Were these evil consequences however, barely from difficult labours, owing to a default of nature, such sufferings would but seldom occur; but unfortunately the cause proceeds too frequently from self-sufficiency, and unskilfulness of midwifes, male or female; add

to this, the barbarous practice of grabbling, either with hands, or what is yet more abominable, tongs, under the name of forceps, in the uterus; from whence such unfortunate patients, generally drag a perpetual evacuation of purulent fluor, accompanied with many other grievances, with them to their grave.

Concerning other injuries, such are too frequently occasioned, either from a procidentia uteri, the imprudent use of astringents, or emmenagogue pessaries; or eroding injections, &c. all which may have the evil tendencies equal with

the former.

In short, whatever injuries the stamina of the ramificating veffels, either in the uterus, or the lacunæ in the vagina, or pudendum in general, cannot fail of causing ulcerations; which are too frequently experienced in their nature, equally as injurious, as if contracted from venereal ulcers; with this difference, that a venereal virus attacks more, as it were, by furprife, and thus causes a greater contest in the parts, or an inflammation; from whence other parts are subject to receive an infection; whilft these pussy discharges have had a more gradual approach, and flowly come to fuch a height of ulceration. But when the inflammable fymptoms of the virulent kind are abated, the continuation thereof is fo exactly alike to the former, that the consequences, figns, diagnostics, prognostics, and the very cure thereof, are exactly alike: That is, the fluor albus proceeding from ulcerations, particularly in the vagina, or pudendum in general, cannot be diffinguished from the habitual purulent gonorrhœa, being exactly alike in every circumstance. From rational diffinction, which ought to be observed in these inquiries; and from this we see likewise the causes of many ailments, not only in chaste mothers, but also entailed on the innocent offspring; and though nothing venereal has been in the case, yet it has had, at times, so near a resemblance, that the parties concerned have often been stigmatized with crimes they have not deserved. It behoves therefore, the judicious practitioner, to be cautious in his diagnostic conclusion; yet may his indication be levell'd against the greater evil, to which the lesser will always yield.

A recent gonorrhoea is easily known, but in respect to the inveterate kind, all what we need to know (regarding the benefit of the patient) is, whether the discharge is mild or virulent, lymphatic or purulent, &c. and whether the seat thereof is external or internal, the quantity of the discharge, and the various symptoms; for if the discharge is mild, white, lymphatic, by intervals only, without pain, or heat of urine; it is only a simple fluor albus: But if the discharge is of a deep yellow, purulent, soetid, continually, without intermission, attended with pain, and simarting of urine, the sluor is purulent, and requires another treatment; let the origin be venereal or not.

If by inspection we find the lacunæ about the sphincter urinaria, or any other part in the pudendum fore, or on a gentle pressure, yield a pussy matter, we know such parts are affected; likewise if any part within the vagina feels more tender than any other, on the touch, an ulcera-

tion is plain; if however, the discharge slow, besides all these examinations, it is evident the production must be from the uterus; the recenter
the case is, the easier it will yield to proper applications; but if of long standing, and becomes
habitual, it is natural to suppose the case more

obstinate.

Notwithstanding the similitude of the various kinds of purulent discharges beforementioned, there remains still fomething peculiarly characteriftic to that of the venereal kind; namely, the propenfity and aptitude to infinuate itself more in the lacunæ, than any other parts, and involve itself deeply in that substance, where it at first ftruck root; confequently acting with more violence, to work its way outwardly; and thereby, not only ingrafts the ulcerations more intimately in these little glandulæ, but from the symptoms which fuch elaboration occasions, affects other parts, and renders them liable to partake of the miafmatic virus: But after the ulceration is become quiet, and the inflammatory fymptoms abated, it loses also, in some measure, its infective quality, infomuch, that in time there is no difference at all, in the nature of it, distinctive from that of any other cause: Hence the habitual venereal gleet in men, and that in women, may remain dormantly inoffensive to themselves, even for life; and those accustomed to their embraces; yet only like a fmothered fire, which is subject, one time or the other, to awaken, and put the whole animal mass in a blaze. It It is true, that this habitual gleet in men and women, if regular and gentle, may not prevent procreation, and even the bringing forth healthy children: Yet how precarious and detrimental fuch an ulcerous iffue is to the parties and posterity, is too evident, from the many melancholy examples; which will appear more in the sequel of this æthiological enquiry.

Having thus examined the nature of a gonorrhœal evacuation, we will next turn our thoughts on the various difagreeable attending

fymptoms thereof.

Of INFLAMMATORY SYMPTOMS.

WHEREVER there is an opposition to the free circulation of the fluids, there must be an inflammation. Liberty and freedom is the great wish of nature, and implanted in every atom of life; and whatever obstructs this facred enjoyment, gives the alarm to the interested parties, and all concerned, unite, to expel the encroaching enemy. The first emotions are the most painful; but at length the contest substitute, and the vanquished, gradually submits to the yoke of oppression; at the same time labouring under a discontent, and for ever endeavouring to shake off the obnoxious burthen. Thus it is in a state, and thus it is in the animal œconomy.

The fymptoms of inflammation which gradually occur in the recent virulent gonorrhæa, would naturally have made the fame appearance,

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if the injury had been occasioned by any other means, than a venereal virus; as is evident from wounds, burnings, contufions, caustics, &c. For as the vesicular ramifications are either lacerated or maimed, fo as to be unable to do their functions, the humours confequently obstruct in them, and dam up the perpetual influx and circulation of humours coming from other parts; and of course continue the distortion of the neighbouring tubulæ; whereby the nervous texture becomes irritated, and stimulated to a contraction, and thus makes their extension more intolerable: It follows therefore, that the accumulating humours, preffing on all fides, the tubulæ and nervous fibres must irritate them to increase their functions; whereby they endeavour to difengage themselves from the oppression; which struggling agitation, must naturally excite a vital heat in the contesting parts: And because the globules of the blood are drove by the constriction of the fibres, out of their proper channels into the lymphatic veffels, the parts also become fwelled, and of an inflammatory red. This is the first state of inflammation; which will naturally farther effect the neighbouring, and fuch parts as are most intimately linked hand in hand in the chain of friendship and interest.

When the fibres of the oppressed tubulæ, either by a relaxation give vent, or by the power of their elastic constriction repel the stagnated sluids, without any elaceration of their fibral stamina, so that the sluids may pass again unobstructed in their wonted course as before, nature is restored to its former tranquility; and this is a dif-

a dispersion; the most favourable conclusion of an inflammation.

If however, the intestine broils of inflammation are obstinate on either side, so, that neither the sluids can disperse, nor the solids give way, or strong enough to expel the obstruction, the contesting parties threaten destruction to each other; the sluids, from their stagnation, lose their natural benign quality, and become acrimonious; and thereby destroy the tone and texture of the solids; and this is the state of a gangrene.

But if yet the destructive enemy has no outlet, but is become putrid, bores its way by a continual slaughter, and cuts off all communication of succour to replenish the distressed party, the torrent of ruin destroys every thing before it, and aims at nothing less, than the distribution of the whole animal fabric. In this dilemma, either the branch must be lopt off, or the stem must die: And this is the dreadful ha-

vock of a sphacelus, or mortification.

When however the friendly commerce of circulation is not totally prevented, yet the diftended tubulæ of the containing obstructed humour, unable to stand it longer without an elaceration must give way, but at the same time retain a gentle contraction, so, that the sluids are not let out too plentiful, the case becomes an ulcer; which by suppuration, detergion, and cicatrisation, sets nature to right again.

This is the general state, and consequences of inflammations: Let us now proceed to particu-

lars,

Of the DYSURIA.

WHEN the titillating sensations on the approach of the gonorrhoea increases, attended with a weeping of lymphatic matter from the urethra in men, and from the pudenda in women, a dyfuria gradually comes on; the urine at first is let oftner than usual, with a remarkable titillation, which gradually degenerates into a burning and cutting pain; particularly, immediately afterwards. The urine acquires a high colour, from a deep faffron, to that of strong beer; as it advances in highness of colour, it deminishes in quantity, and increases in acrimony; in fo much, that the patient formetimes is continually irritated to urine, but scarce able to difcharge a spoonful at a time, and which cuts like a two-edged fword. But fometimes it degenerates into still greater ailments, as we shall see presently.

That the dyfuria is only an inflammatory fymptom in the gonorhoea, and not the infection itself, is evidently plain; fince it is always an immediate attendant of acute fevers, and inflammations in general, and ever ardent in proportion, as the patient is more or less subject to spasmodic affections: From hence we see the reason, why men are greater sufferers in this additional torment in the gonorhoea, than women; and particularly if they are young, siery, and of tense sibred constitutions. But besides this, the structure of their urinary organs, lays them in this complaint under many disadvantages, different from the female for

from the female fex.

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The diagnostics, and prognostics, from the examination of urine, has had its pro and con, ever fince physic was a study; some pretending to too much from it, whilst others again have rejected the observations of it entirely: Thus mankind are apt to fall into extremes; and seldom have either judgment, or resolution to pursue the medium. Whoever pretends to know all diseases from the inspection of the urine, must be a Quack; but I will venture to say, he, who rejects taking any notice of it at all, must be another.

There are many diseases, where the urine affords us more certainty than the pulse, or any other signs or symptoms; and I am persuaded, that a judicious and unprejudiced practitioner must have frequently observed, many things in that respect, worth farther notice and speculation. It is certain, that the antients had great skill in the inspection of urine; and though they sometimes carried their notions too far, yet they have left us many valuable observations; which if they were properly improved and pursued, would in my humble opinion, be of no small importance to the acquisition of physic.

It is certain, that every acute and spasmodic distemper is attended, with a sharp and strong urine:
But, why is it so? The general answer is, Because it is loaded with saline particles and acrimony, which it has attracted from the blood.
This however, on the least reflection, (though it is taken in general for granted) must appear absurd: For suppose a person, in a perfect state of health, shall accidentally scald or burn some part of the body, experience teaches us, that within M 3

a few hours the patient will labour under a fevere inflammation of that part, become feverish, and immediately perceive a remarkable sharpness, and high coloured urine; but as soon as the fever and inflammation abates, the urine again will alter, become more in quantity, and of a milder nature. And, that the application of epispastics affects the urinary organs, and the nature of the urine, is more known, than what tends to the good of patients in general. From whence I think it is plain, that sharpness, and acrimony of the urine, is generated by the inflammatory affection of the nervous sibrillæ, without regard to the blood, be it in what state it will.

But our business here is not to enter minutely into these particulars. Let us however enquire into the nature of the various kinds of dysurias, attending the gonorrhæa, how far it may be actually virulent, and how far symptomatical; which will not contribute a little to the cure thereof.

Let the feat of the gonorrhoea be where it will, a dysuria will always attend in proportion, to the inflammatory symptoms it occasions. Young people, as I have frequently observed, and particularly the first time, have this dysuria more ardent than veterans; because the spasmodic inflammation is more acute. I will not take upon me to demonstrate, how the kidnies secrete the urine in the inflammation, so differently from the sound state; for I might as well pretend to describe the wonderful secretion of the many different appearances it is discharged in: Suffice then, that the inflammatory constriction of the virus, is communication.

and bladder, from thence along the urethra, up to the reins, and affect the very fecreting tubulæ in the glandulous substance, the pelves,

and even the emulgent arteries.

Whilst the irritation is gentle, they are only stimulated to their secreting function, in the manner perhaps, as diuretics in general; hence the patient at first, urines oftner than usual: But when this virulent stimulus becomes actually instammable, the inflammatory construction is conveyed along to the organs of secretion, and effect that function accordingly; by which the urine secreted, will become converted into the acrid state it then is in. It is probable enough, that the high colour of the urine, proceeds from particles of blood, intermixed in the inflamed secretion; though from causes, which makes it more acrimonious, it might as easy become altered in its hue.

If the inflammatory constriction is regular, without leaving the virus in any particular part of the urinary organs, the dysuria will gradually subside with the inflammation; and the scalding then remaining, will only be from the gonor-rheal ulcer, and not from the extraordinary acridness of the urine; and thus far it remains

barely fymptomatical.

As long as the urine is hot and painful only, yet may be retained for sometime by the patient, it is barely called a dysuria; but when the pain is remarkably in the neck of the bladder, and in the bladder itself, attended with a perpetual irritation for urining, yet comes away by very small, but painful

painful quantities, the ailment is then a strangury. Now, this is either occasioned from the acridness of the urine stimulating the tendinous substance of the bladder, whereby it is in a continual contraction to expel the urine; but more frequently in virulent cases, the miasm has taken its abode either in the sphincter of the bladder, or perhaps in the stamina of the tendinous substance, of the bladder itself: When this symptomatical spreading of the infection is the case, an ulceration is too often the consequence; and if not treated with the greatest circumspection, gives birth to grievous cases, and very tedious of cure.

But when an ischuria, or a stoppage of the urine follows, the case is still worse, and even at times desperate. When the virus is seated in the sphincter of the bladder, as is too frequently the case, the sphincter is inflamed; and by its tumefaction is liable to be entirely shut up: Add to this, the sharpness of urine, and the imprudent attempt to introduce the catheter. Sometimes it will happen, that even the kidnies are inflamed, so as to prevent the secretion of the urine: If this is the case, and particularly from the venereal virus, the patient is in imminent danger.

On the whole however, a dyfuria attending a gonorrhæa, is in itself not of a very evil nature; and when these last mentioned evils are the consequences, it generally proceeds from wrong treatment, or from neglect of the patient; wherein this consists, we shall examine in another place.

other place.

Of the PHIMOSIS, and PARAPHIMOSIS,

HEN the virus of the infection begins to act inflammatorily, a phimofis, or a paraphimofis, makes generally its appearance; but more especially the first time of being infected. Sometimes it begins immediately at the commencement of the clap, seldom before it, and generally at the time when the gonorrhœa begins to discharge plentifully.

A phimosis is the attendant of those who have their glans covered; when the præpuce inslames, and is pussed up, so that it not only makes a great bulk, but becomes scarce able to admit the flowing of urine, or the virus from the clap.

A paraphimofis, happens to those whose præpuce is shorter than the penis, or does not cover
the glans; in which case the inflammatory tumefaction, makes it shrink back behind the glans;
where it will be contracted, and grasp the penis
behind the corona; so that it not only is unable
to come forwards, but binds itself so tight, that
an inflammation of the glans makes the worst
part of it.

Either of these two kinds of inflammatory tumesactions of the præpuce, are ever the attendants of the inflammation of the penis, either venereal or not; and thus far it is barely symptomatical; in which case it generally subsides with the inflammation. But when it is the consequence from an actual imbibed poison, received in impure coition, it does in general not go off fo eafily; and in that case, it is not confined to young and unexperienced venereal combatants, but subject likewise to incommode old experienced veterans. The tumefaction of the phimosis, and paraphimosis, may be of three kinds,

inflammatory, ædematous, or scirrhous.

The inflammatory tumefaction is the most general, and always of the phlegmoid specie. It must be observed, that there is no part of the human body, which abounds with more lymphatic vessels, than the tegument of the penis and the labia of the pudendum muliebre; for though it is a continuation of the membrana adiposa, yet the cellulæ are discontinued and in those parts converted into lymphatic ducts: And as they abound most with lymph, the texture becomes more soft and pliable, and therefore

eafier gives way to the phlegofis.

It will not be improper here to observe, that the lymphatic vessels have many peculiarities, destrinctive from all other conveying channels; namely, that they are merely a continuation of small pellucid cellulæ, which empty themselves by valves, one into the other, in a manner, so as to prevent a reslux; but at the same time, that they communicate with themselves, they have also a collateral correspondence, with the small ramifications of the arteries and veins, as also another connection to the tendinous and muscular fibres: so, that they have a hand-in-hand friendly communication, with every particle of the solids and fluids, of the parts where they reside.

Whilst now the seat of the gonorrhœa excites an inflammation, the delicate nervous texture of

the lymphatic cells, become stimulated to a contraction, whereby the circulation is hindered: At the same time, the influx is promoted, and swell up the cellulæ; which at that juncture, compress the little tubulæ of arteries and veins, and force their contents into the lymphatic cellulæ also; and thus distend them, making them red and inflammatory: Now this is the first state.

If the lymphatic cells burit, shankers must be the result; but if the parts become lame, the sibre of the lymphatic cells lose their tone, and then the tumefaction becomes cedematous. But this is seldom or never at the first onset; but generally happens in long standing, shankerous cases, worn constitutions, and at the approach of the confirmed lues, in lax habits. Thence it is more frequently in women; but rarely in men, except in the real pox.

When however, the lymph is become spissifit, and at length callous, the cellulæ of the lymphatic vessels contracted, so as to prevent the outlet, the tumefaction is become scirrhous: This is seldom or never the case by itself, much less in an incipient insection; but when the præpuce is all within silled with shankers, whose lips, when they become inveterate, are generally callous and stubborn, the præpuce will greatly suffer from the shankerous ulcerations, and sometimes be reduced to a most irregular, and inconvenient bulk.

If the phimofis or paraphimofis have been of any standing, they are always attended with shankers. The phimofis in this case is trouble-some, and frequently productive of great mischief; in so much, that sometimes the whole surface within is not only ulcerated, but has attacked

tacked again the glans, the corona, and particularly the frænum: And to add to the evil, the ulcerated parts, namely, the glans, the corona, or along the frænum, have fometimes united with. the præpuce, and made a growing together; formed behind their conjunction, abcesses, which have either eat their way through the præpuce, or else been obliged to be opened, like another imposthume. We are generally taught in books of furgery, how to open fuch troublesome præpuces, in order to come to these preying evils; but I have not been fuccessful enough to find one who proposed a proper method to prevent it, for poultices are of little benefit; the venereal virus is too stubborn to yield to common emollients and cataplasins; but a more effectual remedy, than hitherto has been offered shall be pointed out in its proper place. When however, there is an actual cohesion of parts, it is but just that there should be a separation; and this can but be performed by a manual operation.

In regard to the paraphimosis, this is sometimes of a more alarming nature, and very often puts the patient's life in imminent danger; for the præpuce which becomes inflamed, contracts itself behind the glands and hinders the ressure of the blood in the yena ipsius penis, whereby the glans swells up and inflames; each provokes the inflammation of the other; and, if timely assistance is not given, a gangrene, and sphacelus, will soon come on; and the member is not only at the eve of being lost, but even, not without the hazard of life itself. Yet it is not always attended with such bad effects, but when the patient is of a tense, sibred constitution, and inclined to acri-

mony. But in general, a paraphimosis is very troublesome; as it frequently conceals ulcers and shankers behind the corona, which fret themselves betwixt the glans and the conjunction of the corpora cavernosa; and leaves sometimes sistulas behind, which penetrate into the very urethra itself. When the paraphimosis is become scirrhous, it deforms the penis yet more than the phimosis; as it makes a kind of breast-work behind the glans, which, from its callosity and habitual contraction, gives the patient not a little pain, and causes many inconveniences at the time of erection.

What a phimofis or paraphimofis is in man, is the phlegofis in the labiæ and alæ (mutatis mutandis) in women; but, in my opinion, not as Dr. Astruc thinks, the inflammatory constriction in the clitoris, the caruncula myrtiformes, or particularly in the orifice of the vagina; for the structure of these parts stand more in comparison with the cavernous fubftance of the penis and the glans, and may therefore justly come upon a par with a chordee, and priapism; which we shall confider hereafter. It is easy however, to conceive, that women cannot fuffer fo much from this phlegofis, as men in the phimofis or paraphimosis; not only from the unsimilar structure of the pudendal parts to those of men, but from the natural pliable disposition of their fibres: Yet shankers within the labia are as frequently the result; but far from being of so stubborn a nature as those in men.

There is another kind of phlegofis under this head, viz. that which catamites are subject to, about

about the sphincter of the anus, from the unnatural and filthy venery of sodomites: This kind is not only exquisitely painful, but frequently produces the most stubborn kind of shankers, and often the sistula in ano.

On the whole, the venereal phimosis or paraphimosis always commences with an inflammation of the phlegmon specie; at least, that is the appearance it takes on; whether it is symptomatical, or excited from an actual imbibed poison: But by far more malignant in its nature, than the common kind, as well from the structure of the parts, as the virulent cause. That there is a material difference in this part of the skin, from the rest, as well in the male pudendum as the muliebre, is evident; since leucophlegmatic habits of either sex are peculiarly subject to have the pudendal tegument, cedematously tumesied, to a great degree, whether venereal or not.

When the phlegofis in either fex is fimple, it eafily disperses: But what evils it farther is capable to produce, shall be considered as we ad-

vance in the fubject,

Of SHANKERS.

HE next falute the patient has a right to expect after a phimosis, or paraphimosis, are shankers. It is however, not always these visitors give so much friendly warning, as a previous, sensible inflammation; but sometimes pop out in such a sly manner, as if they were directed by the most experienced hypocrify and deceit;

yet, foon convince the patient, that they have

malice as well as flynes.

When the virus begins to operate inflammatorily, the whole mechanism of the pudendum, whether male or female, is contaminated, be it symptomatically or primarily; for in fact the difference is only, whether the house is set on fire more than in one place; in either case, the conflagration may increase with equal rapidity. The lymphatic vessels, as I observed before, become not only constricted and expanded in some places; but in others, the sibres of their celulæ being stimulated to a different motion to what they were in their sound state, corrupt their containing lymph into acrimony; which again act upon themselves, till they burst, and thus commences an ulceration.

At first the various cellulæ, which have the least resistance, swell up beyond the surface, and become little bladders; if their containing lymph, or rather serum, is clear, they are called chrystalines; otherwise they pass under the general name of hydatides. These chrystalines, or hydatides, make their appearance within the instance præpuce; sometimes again, are very neatly scattered all over the glans; but chiefly they come behind the corona, near, and about the frænum: Their first approach is with great itching; which however is soon converted into smarting.

Shankers differ in the malignity of their nature, not only according to the recentness of their being contracted, but likewise according to the parts they are seated in. The tegument of the pudenda of either sex, is peculiarly subject to

to shankers; in men, it extends from the præpuce all down the scrotum perinæum, and round the anus; in women, from the mons veneris, down along the labiæ, perinæum, including the fphincter of the anus; farther however than this kind of tegument, the shankers do not in general extend; particularly in regard to the first infection: The shankers which appear in these parts, are never of fo malignant a nature, as those which attack the more nervous; fuch as the glans, frænum, and the cavernous substance of the penis in men, and the clitoris, proftata, and carunculæ myrtiformes in women; because these parts are more tense and nervous, consequently more subject to inflammation, constriction, pain, and of course more acrimonious; whilft the former parts are more relaxed, less nervous, and therefore, the shankers neither so inflammatory, painful, or corroding.

In young persons, male or female, and especially for the first time, shankers are attended with the most inflammation; add to this, when the habit of body is otherwise tense fibred, and inclined to acrimony; in which case they always encrease with more rapidity, than in laxer, cooler,

and milder conftitutions.

Sometimes the patient will have but one or two; which, if neglected, may give trouble enough: But others again, will have these chrystaline pimples variously scattered about the glans, and within the præpuce; which, when they break, become confluent, and soon reduces the whole glans like an honeycomb. If this is the case, together with a phimosis, the prepuce and glans will soon be in a perfect ulceration; but

if a paraphimofis attends it, a gangrene, or sphacelus is not far off, and ought to be guarded against. At the best, however, when the glans is much affected with shankers, it seldom ends without loss of substance; particularly about the

corona, or frænum.

When the glans is shankered, it yields frequently a great discharge; particularly when the shankers are numerous and small; and this is perhaps what Dr. Astruc meant by the spurious gonorrhæa; for it could certainly be no other: And in fact, the gonorrhæal drain, is no other than the discharge from the shanker within the urethra.

Whilst the first fury of the shanker lasts, the stamina of the substance, where the ulcer is, becomes rapidly destroyed; and the shanker will fometimes penetrate very deep, even fo as to corrode arteries and veins, and occasion dreadful hæmorrhages; gradually however, the lips of the ulcer become hard and callous; and from the bottom of the shanker sprouts out a bastard carnation, which not only fills up the cavity, but fometimes projects beyond it: This is called in common proud flesh, and by furgeons fungosities. When however the ulcer is come to this state, it is properly no more a shanker; as it then, fometimes take on one appearance, and fometimes another; from whence those excrefcences have acquired different names; which we shall examine in another place.

Shankers are not the less grievous in the clitoris, alæ, carunculæ myrtiformes, and within the vagina, than in the penis; and very frequently quently fret great part of the substance away, before they become so far reconciled, as to sprout out this sungous excrescence. For whatever be the established outcry, against that sungosity, it is far from being so pernicious, as is thought in general; and I am well persuaded, that the various bitter applications in practice against this salutary effort of nature, have been the ruin of

many patients.

There is not one effect of the venereal virus, fo fingularly peculiar to itself, as shankers; whilst they are in this phagedænic state, they are nearer to a cancer than any other kind; and they defy almost every other kind of application, than mercurials; and even these must be used with great judgment. They are likewise ulcers, peculiar to glandulous substances; and as there is a great similiarity in the structure of the substance of the fauces, in general, with the pudendal part, shankerous ulcers will frequently, in venereal habits, make their appearance in the throat, mouth, tongue, and other neighbouring parts; where they will, if not prevented, do much mischief; as we shall see hereafter.

When shankers have attacked the præpuce or the tegument of the penis, they frequently spread this malignity farther on; sometimes in the perinæum, the scrotum, and all about the anus; in those parts they don't however remain long in the phagedænic state, but generate into other excrescences; as christæ, mori, sici, &c. to which particularly pathics are subject; where the shankers, and afterwards those excrescences, or perhaps both together, will make their appearance first about the anus, and gradually rife upwards; cause buboes; and sometimes even a

hernia humoralis, &c.

It is scarce necessary to mention, that shankers are infectious; since in them the virus discovers the liveliest acrimony: Yet it is with them, as with the gonorrhæa; the aptitude to receive the infection, and the acridness of the virus, greatly alter that effect.

There is much left unfaid about shankers; but the limitation of this treatise, will not admit of a deeper enquiry in this place. We shall however take a second examination of them, when we come to the curative part; where I hope also to demonstrate satisfactorily, that the erroneous practice of caustics, ought to be banished from surgery, and that they are equally pernicious as actual cauteries.

Of the CHORDEE and PRIAPISM.

The organs of generation, have the greatest share of nerves of any carnal part of our body; no wonder therefore they should be the most sensitive. The urethra particularly, is in fact nothing but an interwoven texture of nerves, tendons, and interspersed with the glandulous substance of the lacunæ. The function of the lacunæ is to nourish and protect those delicate nervous stamina from injuries; when therefore, those sibres, not only become destitute of that nourishment, but what is still worse, the very means which is designed for their support, becomes

comes their destroyer, it cannot fail of giving them great irritation, inflammation and pain. But besides this, when there is a disunion of parts, loss of substance, and inflammation, there must also be a contraction, since the surrounding vessels must be swelled up, and consequently become shorter than usual; this is the case with the chordee.

When the penis is erect, the fibres from the frænum to the veficulæ feminales, are stretched to their greatest length; for by this expansion the titillation of the glans in coitu, is conveyed with more force to the seminal organs, to do their function, at the crisis of ejaculation. This constriction of the frænum is very remarkable; in the sound state it gives great pleasure; but in a recent gonorrhæa, where there is a chordee, this critical juncture of ejaculation is remarkably painful.

The greater the inflammation is in the urethra, the more it must be contracted, and consequently the more painful; and what adds not a little to the torment, is a priapism, which provoke each others constriction; nay, sometimes the torture is so intolerable, that the patient strives to force the penis downwards, as much as he can; from

which he feems to gain fome little eafe.

A chordee generally, as I have already mentioned, is on the under furface of the urethra, which besides swelling up the tubuli, or the sibres of the tendinous tegument, is apt, and very frequently penetrates into the corpus cavernosum urethra; and leaves callosities, which, if they remain

remain any time, are not eafily got rid of. But befides, it will fometimes happen, that the feat of the gonorrhæa will be fideways; when fo, the contraction will incline proportionally that way the virus is; and the penis will be bent to the right or left; nay fometimes, upwards. It is however not always the feat of the gonorrhæa that occasions this distortion; the inflammation will fometimes spread, and the virus will attack the cellulæ of the cavernous bodies of the penis, contract them, and leave for some time callous and stringy chords, or phymata.

In the general course, the chordee remains seldom beyond the inflammatory symptoms; for when the turgidness of the parts hath subsided, the expansion will become as easy as before; except where there is an actual loss of substance, but even then, the parts will gradually extend; by which the deficiency will be again replenished. But it is easy to imagine, that from the fatigue of the fibres, which they fuffer in the inflamed constriction, and painful expansion, the parts will be liable to contract a lameness; and hence an obstinate virulent gleet, together with a seminal gleet, are too often the followers; and as the tone will be greatly impaired, the penis will, in the state of flaccidity, be larger than ordinary; but far from recovering its wonted vigour in the erection.

What makes the chordee so very painful, is, the turgid erection, which, though very unwelcome, always is more or less accompanied with the chordee, and even in proportion as the chordee is acute; and this is the venereal priapism:

N 3 Though

Though I must own, that this inflammatory erection is of a different nature to that which in all probability was meant by the perpetual erected penis of the fabulous deity Priapus, worshipped by the Lampsacians, from whence it derives its name: But this is immaterial: In physic we mean by a priapism an involuntary and painfulerection, the nature of which we will here examine.

I am afraid, that notwithstanding the many phyfiological descriptions given us, concerning the erection of the penis, that we are yet unacquainted with the most material circumstances thereof; 'tis true, that an injection into a dead penis by the vena ipfius will diftend it like a natural erection: But this is not enough; the continuation is the mystery. The pressure of the vena ipfius against the os pubis, is idle; for neither preffing it to, nor keeping it off, makes any odds; befides, about that part there is the leaft pain felt in the priapism. It is however most likely that the whole penis contributes towards it; for in the priapism, the penis seems compresfed as if it was prest between two hands; which pressure extends from the sphincter of the urinary bladder, to the very opening of the urethra. That the musculi penis are parties concerned in the erection is evident; but I cannot conceive, and therefore not believe, that they do all; nay, they even perhaps contribute the least share towards the real erection; I am rather inclined to think, that the elevators act chiefly as fulpenfories; the accelerator, like a ligament; and that the act of erection is principally by the peculiar structure of

the fo very nervous and tendinous fubstance of the various corpora cavernosa of the penis, and the structure of the vena ipfius itself; by which the blood is forced into the cells and confined there. 'Tis true that the constriction and turgidness, particularly in the inflamed priapism, is felt very spasmodical in the perinæum, and that the accelerator feems very strongly contracted; but quære, whether this constriction may not act fecondarily from the stimulus of the inflamed penis. I have hinted fomething of this before, but the limits of the work will not let me fearch so deep into this examination, as my inclination would lead me.

Certain however it is, that the erection is produced more from the nervous substance of the urethra, or other parts of the penis, but in particular near, or rather in the vesiculæ seminales, than from the irritation of the muscles themfelves; especially in the virulent inflammatory priapifm, where, in my opinion, the muscles

have but little share.

Amongst the various aphrodifiacs, cantharides feems the most powerful; and there have been instances where this pernicious stimulus has caused such an inflammatory venereal furor, that the patient has expired in the very act of coition.

A priapism is of an alarming nature, if it continues without intermission for some time; for fince the circulation of the blood is in some meafure hindered, it is subject to degenerate into a gangrene; when universal convulsions, a sphacelus and death itself is not far off; besides, when

a patient has once had a violent priapism, he generally feels the effects of it a long time after, with a lameness, and an incapacity to perform venereal functions.

A priapism is generally said to be without venereal inclinations; but this however is only partly just; for at the beginning, or by intervals of the most inslamed priapism, there is actually, at times, an emission of semen; but immediately after this emission, if the turgidness continues, the patient is tortured with a pungent pain; particularly if connected with a chordee, yet more so, if a paraphimosis is the case. For the moment of a natural emission is the criss of pleasure in coition; and the friction which is continued after that, is painful: And so it is with the priapism, only in a severer and stronger degree: There are moments of pleasure; but unfortunately they are far over balanced with pain.

Nocet empta dolore voluptas.

Hor.

Those who are whipt, always have a strong priapism, and which is even attended with emissions of the semen; every lash the criminal receives, after the juncture of emission, becomes more torturing than all that he received before: Hence ensues their fainting; and if such emissions are tormentingly repeated, we see the poor sufferer sometimes die under the punishment. I think such a correction would prove an excellent remedy for those wanton sools who lasciviously exercise whipping; namely, to give them as many switches after the emission as they endured before it, which would at once satisfact them of this diabolical stimulation.

But in regard to the inflammation, (to which a priapism is subject, whether it is occasioned by the venereal virus, aphrodifiacs, or external stimulants) when the parts are violently contracted, the veficulæ feminales, as well as the fphincter urinaria, are spasmodically shut up; so that neither the blood can circulate, nor the femen or urine be discharged; and the case of the patient is in that juncture deplorable: The member is fwelled to a great bulk, inflamed like fire itself; and so exquisitely sensible and painful, that the least touch is dreaded like death itself; this is the commencement of a gangrene; and if a sphacelus approaches, the dilemma of the patient is desperate: for even at the amputation of the member, the last shift, death stares him full in the face.

What the chordee is in men, a peculiar conferiction towards one fide or the other in the vagina, from the inflammable attack of the virus, is in women; and from which, at times, they experience not a little pain. In regard, however, to the priapiim, this may justly be compared to the furor uterinus; and that this malady, in some degree, is often the effect of a venereal virus, judicious observers of diseases

will not contradict,

In the first inflammatory state of the gonorrhæa, there is generally an external phlegosis of the pudendum, attended with a very great itching and inclination for venery; but when the vagina is inflamed, together with a very great constriction at the entrance, coition must of course become painful; but after once admitted, the difference is only, that the pain overbalances the pleasure; which both are in a great degree.

It

It is too much experienced, that venereal stimulants act as powerfully on the female fex as on men, and are equally as much perniciously made use of; I forbear however particulars; especially as it is immaterial to the subject.

On the whole, the chordee, priapism, constriction of the vagina, contraction of the entrance, and the carunculæ myrtiformes, are inflammatory fymptoms of the virulent recent gonorrhœa; which seldom are obstinate to remove, if properly managed: But, it is not fimple poultices will do it; the virus must be corrected, before these dangerous symptoms will yield; how this may be affected with eafe and fafety, we will confider elsewhere. We will therefore leave this evil, and confider another, of a different nature, but at least of equally as great consequence.

Of BUBOES.

BUBO is the Latin for an owl; but this is not the etymology here, the word is of Greek extraction, and fignifies an inguinal tumor. Hence those authors err, who very learnedly enumerate buboes, not only in the arm-pits, but in the falivary glands*, &c.

^{*} Astruc. de Morbis Veneris, lib. iii. cap. 5. An bubones ulli venerei alibi subnascantur quam inguinibus? Constat enim exprientia et in axillis & in jugulo, & in lateribus maxillæ inferioris venereos bubones aliquando enasci, vel saltem tumores buboniformes, bubonibus inguinalibus simillimos, qui eodem modo invadant, morem eundem teneant, iisdemque cureutur remediis.

We may however count up four kinds of buboes, namely, venereal, pestilential, scorbutic, and scrosulous: Our enquiry however is concerning the venereal; and by making a proper atiological examination of this, we shall scarce be subject to mistake this kind for any of the former; as it has something very characteristic

in its nature.

Venereal buboes may be diftinguished into two kinds; namely, the recent, or that from the first infection; or the latent, or that from the second infection, which are always the pathognomonic figns of the confirmed lues. Of the first kind we will understand those buboes, which approach whilst the feat of the disease is merely local; but the latter we shall examine in another place, as they are remarkably different from these. Men and women are equally subject to buboes, and whether they are recent, or latent, the fymptoms and progress are equally the same in both sexes: But yet it is rational to suppose, that the difference of the natural tone of the texture of the patient, together with the habit of body, must make a material difference in the nature of them.

The recent bubo may be contracted either from the immediate infection of impure coition, without any previous local eruption; or else from the repelling of the virus from any other part. The first means of contracting however is but rare, on two accounts; first, whilst the virus infinuates itself exclusive of the penis, or the vagina, it is subject to be taken up in the blood, and circulated before it utters itself there or on any other parts; and secondly, it rarely happens to those

those who copulate the natural way; but genenerally to those who use the abominable and stupid practice of machinery; to sodomites and pathics; which miscreants we must hope will ever be the least part of mankind. The latter however is more common; namely, that from the infected virus being propelled, either from the phlegosis or shankers in the præpuce of the penis, the labia, &c. of the pudenda in women, or else from a virulent gonorrhæa; (which is more general) and carried along the lymphatic vessels to the inguinal glands.

Whether, however, the virus is thus transported by the folids or fluids, we have considered before; and that they both have equally shares in it,

will appear more and more conspicuous.

A venereal bubo has, in general, many peculiar fymptoms different from other buboes; yet fometimes they will draw near in refemblance; impure coition, however, and other preceding

fymptoms, will foon remove all doubts.

A recent bubo, whether it is the effect of the first infection, without any previous symptoms, or from a repelled virus in an obstructed gonorrhoea, makes its approach in the following manner: The patient feels in one or both groins a stiffness, attended with a dull pain; in the groin, right or left, (or perhaps both) is perceivable to the touch a little hard swelling, at first perhaps the bigness of a pea, but gradually becomes larger; externally there is no inflammation or remarkable foreness; but immediately after handling, the part becomes more painful, and increases in stiffness. Gradually the kernel tumor increases

pain becomes more fensible, and by turns begins to throb; the body becomes affected with inflammatory symptoms, an universal lassitude, pain

in the limbs, head-ach, thirst, &c.

At this juncture the patient begins first to complain; if proper remedies are applied, the bubo easily disperses; but mistaken notions have made it a too universal maxim, that a bubo should not only be brought to suppuration, but opened, and be kept open, in order to expel the virus. If this is the intention, the patient is advised to live high, have great exercise, and every thing which will promote the inflammation, and suppuration; such method is exactly as rational, as throwing oil into the fire in order to extinguish it.

Whether however intentionally, or from the natural constitution or habit of the patient, the bubo inclines to suppuration, the tumor increases with the pain and symptoms; till sometimes it acquires the bigness of a pigeon's, or even a hen's egg; becomes inflamed, of a redish and blueish cast; when the matter begins to form,

and is actually felt to fluctuate.

At this state, the bubo is arrived to its maturity, the inflammatory symptoms abate, and the tenderness in some measure subsides; the hardness of the bubo is changed towards a softness; particularly where it protuberates; where it is frequently the least painful, and sometimes of a different hue from the rest; blueish, redish, or sometimes inclining to yellow.

The

The bubo is now fit to be opened; if this is done judiciously, and afterwards treated properly, the affair is foon fettled; but what could induce furgeons to effect this with causticks, I cannot conceive; unless either to punish the poor patient; or more probably with a view of gain. I don't mean here all furgeons or apothecaries who have and still practise this; for there are weak men in that profession as well as any other; who may eafily be perfuaded into any method by the more cunning, without any other reason than authority and custom; especially if the interest of their purse is confulted, previous to the welfare of the patient. I am not ignorant of the many ridiculous pretended plaufibilities faid in favour of causticks; truth, reason, and experience confirm to me, that the first advocate of this abominable practice, must either have been a knave or a fool; but neither a philosopher or a furgeon, nor perhaps an honest man. The method may perchance have fucceeded, but what mischief caustics in opening buboes have done, in general, I apprehend more are conscious of, than have candour enough to own. Harsh as this may feem, yet I will venture to affirm, that more patients have been poxed by wrong treatment, than the venereal virus itself.

A bubo, in the first stage, is easily dispersed, root and branch: And after my eyes were opened; to the impropriety of the usual method, I have with success dispersed them, even when there has been an actual fluctuation of pus. I remember the time, that I would highly have condemned this; and therefore I expect it now from others;

but at the same time I don't expect it from an experienced and unprejudiced surgeon; particularly if he has always waited with prudence for maturity of the bubo before he has attempted opening it, when I am persuaded he must have sometimes met with cases, where the bubo has

dispersed even without his intention.

When however there is an actual collection of matter, and the bubo is perfectly ripe, it is but just to open for the discharge of the pus; for if the surgeon does not perform this, nature will do it for him: But then, (to do the patient justice) I have no notion of making the evil worse, by stuffing up the fore, or making an obstinate, callous, and phagedænic ulcer, where nature meant the parts peaceably to unite and to heal up

again.

A patient must be in a very ill habit of body, if a recent bubo becomes obstinate to proper applications; I don't know in fact any one branch of the venereal disease more tractable: But, as all glandulous parts are not to be trifled with, fo in this case, injudicious treatment is of the greatest consequence; it is not only a fiftulous, scirrhous, and cancerous bubo; but an universal and confirmed lues, which is too often the refult. The venereal virus, like fire, is not fafe whilft there is the least spark remaining; to aggravate it therefore, is only adding fuel. At the appearance of a bubo, the patient is on the brink of the second infection; and nine out of ten, who have fallen a facrifice to the lues, have been plunged into this malady from unskilful management of the bubo, be the fault their own

or their doctor's. If a bubo is dispersed in prudently, without destroying the virus, 'tis plain the virus must be drove into the blood, or propelled to some other part; if it is aggravated, it is as obvious, that the quantity of the virus must be increased, and consequently spread; either way therefore the consequences are conspicuous.

But let us enquire into the nature of this venereal recent bubo: The feat of the bubo is in the conglobate lymphatic inguinal glands; the question is, how and by what means it comes there? If the bubo makes its appearance without any previous symptoms of the gonorrhœa, &c. on impure coition, then we may with propriety account for its progress, in a manner, the fame as the progress of the gonnorrhæa, or the external phlegofis, shankers, &c. by the absorption, at the universal contraction at the crisis in coitu, immmediately after ejaculation. But to this it may be objected; if fo, why is not this always the case? and why may not a bubo follow along with the other usual symptoms? We must observe, that in the animal occonomy, where there is the greatest irritation, there is always the greatest afflux of humours; now when the penis and the vagina are most exposed, the virus will, in those parts, as being tenderest, easiest make its attack, and utter itself; and whence the other imbibed particles of the virus will the readier accumulate to fuch parts, as are most irritated: But on the contrary again, when the penis and the vagina are sheathed from the infection, the rest of the pudendal parts, particularly

larly the groins, are still exposed to the miasmatic essential, subject to be imbibed by the inguinal glands; or otherwise brought into the blood, and circulated, till it catches either those, or other parts equally subject to be affected. As the inguinal glands are the nearest, they are most liable; but the axillary glands, the tonsils, and even the salivary glands, will sometimes first give the alarm; in which circumstances there is but little time to look about; the confirmed pox comes approaching with long strides, and threatens misery and destruction.

But when the bubo is the refult from a fuppressed gonorrhœa, a repelled virus from shankers, or from a hernia humoralis, the cause must otherwise be accounted for. When a patient labours under a virulent gonorrhæa, and has the discharge any ways obstructed, the virus must be propelled, either to the groin, or somewhere else. This is effected, either by getting cold, whereby the circulation is hindered, by fudden chills and heats, and other indispositions; or else by emotions of the mind, anger, fear, furprise, &c. by which, from the fudden universal constrictions, the virus is liable to be propelled. But not less frequent than these causes, is injudicious treatment; bleeding, purging, aftringent injections, &c. without correcting the virus; in which cases it is fortunate for the patient, if the repelled virus occasions nothing worfe than the bubo.

But why the propelled virus, on these disturbances should take its flight so frequently to the inguinal glands, is not so easily demonstrated, as

fo many very learned authors have endeavoured to prove. If this flight was not confirmed by repeated experience, these great men, through a thirst for same, would scarce have ventured their reputation on such sophistical arguments. 'Tis true, they have followed the many turnings and windings of the virus, close at the heels, as if it actually moved by their direction; but notwithstanding the smoothness and plausibility of the description, with humble submission, it seems to me equally as absurd, as their cures are tedious and dangerous. I don't mean to give personal offence; and therefore shall avoid particulars: I am convinced, however, that nine out of ten, who have written on the subject, have been governed more by theory and

fpeculation, than by experience and practice.

That the venereal virus is transported from the fuppreffed gonorrhoca to the inguinal glands by the lymphatic veffels, feems, to all appearance, most rational; yet we must not obstinately persist, that the fluids only are the conveyers of the virus, for query, whether the veffels fupply the glands with lymph, or the glands the veffels? Whichever way we incline to determine, obstacles will arise. Let it fuffice, that the folids, as well as the fluids, are capable of conveying the virus thither, or to any other part. In what manner fuch conveyance may be effected, we have somewhat considered before, and therefore will here rest contented; for we must not pretend to more than what feems comprehenfible: and the more we speculate on the various acts of fecretion, the more we find, if if we are candid, ourselves incapable to account for

for the various functions of the different glands. Sometimes they will be stimulated to a copious fecretion; but sometimes again, seemingly from the

fame cause, agitated to obstruction.

The inguinal glands spread their lymphatic branches all about the genital parts, like the axillary glands (which are of the same kind) spread their branches all over the mammillary parts; each are subject to be tumefied, when their branches are injured: Thus, in inflamed breasts, the axillary glands partake of the spasmodic contraction, become tumefied and knotty, frequently inflame, suppurate, become scirrhous, and even cancerous; and so the venereal virus is apt to affect the various parts in the pudenda, male or semale.

In regard to the enquiry, whence sometimes the left, sometimes the right, or at other times, both groins may become affected from the venereal virus, is easily accounted for; but so far only, as is useful to the cure: Namely, according as the vessels are disposed to yield to the effect of the virus; and this, after all that may and has been said by many authors, is merely the work of

chance.

A bubo generally comes on gradually, without acute pain, and external inflammation; the reafon of this is, because the virus has attacked the very glands themselves, without any of the external parts; and though they are nervous, yet the fibres are not tendinous, and therefore yield easier to the expansion they suffer; but as the bubo advances, the inflammation spreads, and

confequently increases in irritation and pain, till

at length the very tegument is eat through.

It is certain however, that the progress of a bubo differs greatly, in different subjects; with some they will be tedious, slow, and with little pain; with others, more rapid, and attended with much inflammation; with some, soft, sluggish, and somewhat cedematous; with others again, on the contrary, hard and scirrhous. The truth of the matter is, the different appearances at first, are according to the various constitutions of the patients.

In women and lax-fibred conflitutions, a bubo comes on generally pretty fast; at first with little pain, but soon becomes large, full of matter, and troublesome. And whether it breaks of itself, or is properly opened, it soon heals up again; but if quack'd with, is subject to become cedematous, obstinate, sluggish, and liable to ruin the

whole body.

In robust men, and rigid fibred constitutions, the bubo advances slower, is more indurate, attended with more pain, and very difficult to bring to suppuration: And they are the greatest sufferers by injudicious treatment; particularly when they are tormented with suppuratives, caustics, &c. Indurated scirrhous buboes, or callous, sistulous, phagedænic and cancerous ulcers, are too often the consequences in such recent cases, exclusive of the confirmed lues; but to all which however, we must add the different habits of body.

The time for the coming, progress, dispersing, or suppuration of the bubo, is quite undetermina-

ble.

ble. A bubo will fometimes make its appearance in a day or two after impure coition; but at other times, even months afterwards. Sometimes even at the approach of a clap, at other times at the decline; and even there have been instances, when the patient has supposed himself cured. Sometimes a bubo will come and be ripened to suppuration in four, six, or eight days; at other times it has lasted as many weeks, and even months. This, however, is by the help of wrong treatment. On the whole, the time for a bubo, depends on the constitution, habit, and regimen of the patient; but chiefly, the manner of treatment.

There remains now to characterife the venereal bubo, fo that it may not be mistaken for others

non venereal, and (vice verfa).

In the first place, the venereal bubo begins by a small kernel tumor in the inguinal glands; generally attended with a stiffness and a dull pain, which gradually increases with the bulk of the bubo; torms itself in an oblong roundish lump, the figure and bulk like that of a concealed pigeon's or hen's egg; and gradually becomes fost, together with an external irregular surface, and attended with pain and inflammation; and when at that height, it either disappears gradually, or discovers an actual fluctuation of matter, or else becomes hard and scirrhous.

A pestilential bubo, we are, thank PROVIDENCE, in our days not acquainted with by experience; as it stands recorded to us, it differs widely from the venereal. It rises with a surious, virulent, gargenous, and exquisitely painful inslammation. If it does not immediately ripen into a salutary, though precarious,

precarious and phagedænic suppuration, a pestilential sphacelus soon hurries the patient into the arms of death.

In regard however to the scrophulous, or strumous bubo, this indeed bears fome refemblance to the venereal; but more particularly the latent or pocky kind; for whilft there is an actual virus wandering in the body, it is as liable to be propelled to the groins, as any other glandulous part. Such buboes I fay bear a near refemblance to the venereal; and though the virus of the strumous kind may not be venereal, it is frequently as pernicious. For my own part, I have made no manner of difference in the cure; and have fometimes fucceeded beyond my expectation. In fact, the manner in which fuch buboes are contracted, makes the only material difference. Under that class of buboes (though it scarce deserves the name) are the boils to which boys and girls of gross habits of body, at the approach of puberty, are fubject; which though very painful, inflammatory, and quick in their progress, (consequently easily distinguished from the venereal) are in general of no great moment, and eafily corrected.

As to the scorbutic bubo, this has scarce by itself any resemblance to the venereal; for when scorbutic tumours appear, the patient is generally reduced very low; and the body is then scattered with livid pimples and blotches: Such buboes come slowly, and though not at first very painful, soon become so, and are very obstinate; they will neither disperse nor suppurate, nor when opened, easily be brought to digest proper pus,

but remain of a livid dead hue, and discharge a

thin ichor, interspersed with gruns.

But after all that has been faid to distinguish the venereal bubo from the various other kinds, it is easily to be supposed, that there may be a complication of acrimony attending the patient; which will ever render the case different.

There still remain mistakes to warn young practitioners against, namely, an inguinal hernia, or bubonocele; in this it is scarce possible that an experienced surgeon should be deceived; yet as there have been instances of its being consounded,

with a bubo, I will here specify the caution.

In the first place, the fituation of the bubonocele, is materially different from that of the bubo: the hernia is through the foramina of the oblique and transverse muscles of the abdomen, where, as an imperfect rupture, it remains, and not admitted into the fcrotum; whilft the bubo is in the inguinal glands, fituated in the angle of the groin. A bubonocele is always occasioned by a strain, and therefore makes its appearance fuldenly. The epiplocele is that kind of tumor, where only the · omentum is forced out; it is foft and generally eafily reduced, when the patient lies backward: But the enterocele is that, where part of the inteftine is drove out, and is fometimes very alarming; for, if it is not immediately reduced, the foramina, through which it is passed, will constipate, and the peristaltic motion will be liable to invert; hence cholic, vomiting, and other alarming fymptoms will enfue. These are different symptoms from any attending a bubo of any kind. Befides, the figure and touch of the hernia, differs widely from the bubo; the first 0 4

first is flatulent, and as it were, having somewhat a head and neck; whilft the bubo is hard all round, and if any where foft, it is chiefly on the apex,

where the fluctuation of matter is felt.

Laftly, an aneurism of the crural artery, whether true or spurious, may be liable to mislead the unexperienced equally with the former; in this case, the tumor will be foft from the beginning, disappear upon pressure, and he attended with a distinct pulfation; these symptoms are different from any attending a bubo of any kind whatever.

Thus much then on the æthiology of the venereal bubo in the local state, whether essential or fymptomatical. In regard to the bubo proceeding from a latent pox, that shall be considered in the next chapter. We will therefore leave this evil,

and examine another.

Of the HERNIA HUMORALIS, SWELLED TESTICLES.

MONGST the various operations of the venereal virus, there is no one which damps the courage of the patient fo effectually, as the difagreeable fymptoms of a fwelling, and inflammation, in one, or both testicles. It is not only the pain that torments the patient, (which at times is the most exquisite) but the mind, which remains in a most anxious and disagreeable suspence, till the fate is determined; and remarkably more fo in this case, than in any other venereal fymptom. This is nature, and pure nature itself; for there is nothing that the manly nature dreads more, than the terrible

terrible apprehension of being unmanned, In fact, the case itself is of the greatest importance, and

ought not to be trifled with.

A swelled testicle comes on from the same causes as those which occasions a bubo, and may terminate as variously; but the case is always attended with more trouble, precariousness, and pain. The causes thereof may first be from an imbibed poison, in impure coition; which, not taking the common road to utter itself in a gonorrhoea, or may have been propelled, perhaps, towards the veficulæ feminales, or fome other leading nervous fibres, towards the testiculine tubuli, or even their teguments, and from thence communicated to their fubstance: Secondly, from a suppressed or obstructed gonorrhœa, bubo, shankers, &c. Thirdly, from the latent pox itself. The first kind is called effential; the fecond, fymptomatical; and the third, a pathognomic fign of a confirmed lues. Be the kinds however what they will, the first approach is always alarming, and there is no time to lofe; as the consequences may be many and grievous.

When a patient has contracted the venereal virus, a gonorrhœa is generally the confequence; but when the virus is propelled, either by fudden shocks of emotion, cold, or injudicious treatment, it is liable as well to deflux towards the testicles, as to the groins, or any where elfe. If this be the case, before it has made its external appearance, it follows, that when it has commenced ulceration and inflammation, the testicles must

not be less liable to the infection.

The account we have in general of the hernia humoralis, is, that the contaminated femen be-

ing obstructed in the discharge from the vesiculæ feminales into the urethra, accumulates itself in the vafa deferentia, and fo communicates the obstruction in the various tubulæ of the testicles. This may indeed be fo, but I'll venture to fay, very feldom: For first, it is very rarely, that the feat of the gonorrheea is in the feminal organs; which, I hope, has been fufficiently demonstrated: Secondly, we find in that case, that the virus will be as quickly repelled to the groins; and from thence fometimes, to the tefficles; or from a fwelled tefficle go back and occasion a bubo, or even both together: Thirdly, that shankers, even without a gonorrhœa, have frequently given rife to a fwelled testicle also. It may indeed be advanced, that the virus may find its way in a round-about manner, till it firikes its road along the vafa deferentia, from the feminal veficles to the tefficles; it may be fo; but not without giving fufficient warning as it passes along.

On the whole, the genital parts both in men and women, are fo intimately connected, and interwoven with themselves, that the virus, when propelled, may find a thousand ways to affect one part or other, in a manner beyond the conception or proper demonstration of the wifest of us. The lymphatic vessels, the arteries, veins, tendinous and nervous fibres, not only of external and internal teguments, but even of the fubstance of the whole continuation of the feminal fecretory tubula, may contribute towards the

transportation of the poison.

In regard to the pocky hernia humoralis, this comes on fpontaneously, like the innumerable other ailments attending the confirmed lues; of

which more in our next chapter.

There is not an organ fo exquifitely delicate, fo curiously elaborated, and fo fensible, as the testicles; and hence they are subject to pain, the most excruciating. A contusion on the testicle, occasions torture, which paints death and horror in every feature of the countenance. No part is more liable to a gangrene and sphacelus, than this organ; and a fatal accident of that nature, for example, a contusion, if not timely and judiciously remedied, or the part extirpated, may extinguish life within twenty-four hours.

The first fymptom of a gonorrhæa, when the venereal virus begins to operate, is, a creeping vermicular motion in the tefficles; which continues till the outlet, or ulceration of the virus is fixed or determined: And hence we fee, how eafy the virus may be propelled that way; and how fenfitive the texture of those organs are: And was it not for the promoted fecretion of them, when the venereal virus begins to operate, perhaps they would oftener be liable to partake

, of the infection.

A hernia humoralis, from a venereal virus, always commences with inflammation; let it be effential or fymptomatical. That fuch inflammation differs, according to the constitution of the patient, whether lax or tense fibred, whether phlegmatic, choleric, or inclined to acrimony, is eafily supposed, from what has been demonstrated before; but befides, it differs according to the manner, and from what channel the virus came communicated to these organs; the deeper the attack

attack is in the fubstance of the testicle, the duller the pain at the commencement; but at the fame time the more obstinate and precarious: On the contrary, the more external, the more inflammatory to appearance and fenfibility, at the first onset, but easier to yield to proper applications.

But in order to judge more particularly of its various degrees, and different kinds it is liable to degenerate into, we will trace this kind of inflammation from its commencement, through its

various stages.

The first symptom which the patient is sensible of, is a rotating vermicular motion, in one or both testicles; which at first comes and goes off by intervals; but gradually increases and degenerates into a continual, dull, heavy, and burthenfome pain, attended with fudden twinges and flitches, extending up in the hypogastric region, and across the loins. The testicle now begins to fwell; becomes tender, fore, and burthenfomely heavy to the patient; which if not suspended, makes him almost feeble, both in body and mind, to fustain the painful load. If the fcrotum is properly fuspended, the patient of a good habit of body, and proper remedies are applied, as we shall specify hereafter, the tumification will gradually fubfide again: But when this good fortune is not the case, the inflamination increases, the ascending plexus of the spermatic veffels, together with the vafa deferentia, inflame alfo, fwell up, and become tender: Hence that part by which the tefficle is fufpended, generally inflames also, and is remarkably tender.

tender. The patient becomes feverish; the tefticle begins to throb; the scrotum also partakes of the phlegosis, and now the crisis of inflammation is at hand; which is either a dispersion, suppuration, a gangrene, sphacelus, or a schirrhus.

A fuppuration is a precarious and troublesome affair, and liable to generate a fishulous, phagedænic, or cancerous ulcer; though with care and proper management, at the first setting out, there is little danger but the patient may be perfectly

cured.

A gangrene and approaching sphacelus however is desperate; and threatens the destruction of life. And as to a schirrhus, if this be the refult, the testicle is only a useless and troublesome burthen; and to rid him of it in this and the before-mentioned missortune, is the greatest relief he

can hope for and expect.

A fuppuration may be prognofficated, when the inflammation has continued for fome time with a throbbing, which gradually loses, yet the bulk remains, though with lefs tenderness; and now becomes more foft on fome particular part; where gradually an actual fluctuation of matter may be perceived. There are however various places where fuch suppuration may be generated. First, it may be in the separate teguments; in which case, the inflammation of the testicle may be various and fymptomatical: This may be judged from the fudden progress of the inflammation and suppuration, but particularly by the external phlegofis attendant thereof. Secondly, the feat of the virulent aposthume, may have attacked the epididymidæ; in that case, the inflammation is not only

only rapid, but attended with exquisite pain, not only in the testicle, but in the ascending vessels, extending upwards in the epigastric region; attended with a most disagreeable pain in the loins. And lastly, the mischief may be in the very glandulous body of the testicle itself; when the case must consequently be more tedious, as the

feat is deep in the fubstance.

In regard to the dreadful misfortune of a gangrene, and sphacelus, this can but take its abode in the testicle, or its appending parts; such a default is seldom or never occasioned by nature; particularly from the venereal virus, except additional accidents; but from a misconduct either in the patient, or the person under whose care he may be. But as to the schirrhus, this indeed may happen to the patient's ill fortune, notwithstanding all precaution and skill, though it generally may be occasioned from wrong management and dallying at first.

Here it may be proper to mention the farcocele. This ailment is a protuberance of fleshy excrescence, either in the substance of the testicle, or its tegument. If in the testicle, it is too often of the schirrhous or cancerous nature; but if within the tegument, 'tis generally of the wen kind. A contusion most commonly gives rise to this evil; yet as we have observed before, the venereal virus may give birth to it also. In what manner such excrescence probably becomes generated, will better be understood when we come to examine ex-

crescences in general.

Whatever accident befalls the testicle, or testicles, so that they inflame, they are at that juncture rendered useless to the patient; particularly for generation. I am not fo prefumptuous as to pretend to reason, why nature gave generally two of these secretory organs to the male; certain it is however, that whilst one is in the found state, the animal is not impaired in the procreating vigour, more than he becomes blind who has but one eye: We may therefore, in my opinion, have some right to suppose, that kind and bounteous nature intended two testicles in the male, and two ovariæ in the female, more for the fake of a referve than any thing elfe. But if unfortunately the patient is maimed in both tefficles, either inflamed, ulcerated, fchirrhous, or farcocelous, their fecretory function is perfeetly hindered, and rendered improlific; and the patient in that flate is as much an eunuch as if he was actually cafirated: Nay, I'll venture to fay, he is that when he is steril, be the cause either from a decay of nature, or from an accident; and that pufillanimity attends sterility, is as old an observation as natural philosophy itself. To lose one testicle in order to save life, in a desperate dilemma, a man indeed may consent to; but the thoughts of lofing both, to the man of vigour, must be more horrid to the imagination, than all the mortal tortures of the inquisition.

It will be as proper here to point out the diagnostic distinctions of this kind of hernia from the intestinal hernies and hydrocele, as in the foregoing, the difference between a bubo and bubonocele. In the first place, the tumefaction of the testicle comes on gradually, with pain and

inflam-

inflammation, whilst a hernia intestinales comes fuddenly, from a violent strain, either a blow, or other accident; besides those symptoms which have been mentioned before in the bubonocele, sometimes attend.

In regard to the hydrocele, which is an actual hydrops of the scrotum, this may, with equal ease, be distinguished from the swelled testicle; being very largely extended, of a leucophlegmatic and semi-transparent hue; either so ædematous, as to retain the impression of the singers at the touch, or else a collection of sluctuating humour, which is plainly perceivable both to the touch and sight.

The hydrocele is not an ailment peculiar to the venereal virus; proceeding from an over relaxness of the fibres in leucophlegmatic habits; the result of a long standing ague, or otherwise broken constitution: But as the venereal disease is enough to emaciate the best constitution, so we have had frequent examples, that an hydrocele has been one of the evil consequences attending

this malady.

What the hernia humoralis is in man, an inflammation of the ovaria is in women; and though this has not generally been taken notice of, must notwithstanding be a serious consideration by every jndicious practitioner. 'Tis true, those organs are more sheltered from external injuries than the testicles in men: But since we are convinced from anatomical inquiries, that the ovaria have not only been dropsical, sarcocelous schirrhous, and even ulcerated; we have just reason to suppose that those organs the ovaria, tubæ sallopianæ, and the uterus itself, may be subject to suffer from

from a repelled virus; and which is likewise evident from the complaint in those parts. Jowanny Shirt must be brone of

Of VENEREAL EXCRESCENCES.

WE now advance to fuch productions of the venereal poison, which tend more towards the confirmed lues. As excrescences fometimes spring forth from the first infection, without any preceding fymptoms, and other inconveniencies, befides themselves, I consider them here under the first infection and local diseases: But fince they also are more frequently the production of the confirmed and latent pox, they had almost a greater right to be confidered under the fecond infection. This however is very immaterial,

fince they are the production of both.

The various kinds of venereal excrescences which make their appearance about the pudenda, are either inflammatory or not, hard or foft, open or close, moist or dry. They have as many different appearances as quality and effects. But in order to diftinguish them more properly, I shall concisely define each kind. Verrucæ, are a kind of venereal warts, which sprout out sometimes after impure coition; but they are more frequently the production of a latent pox. They are of various magnitudes; fometimes like pins heads, at other times like a ragged button. They are fometimes scattered over the glans and præpuce in men; præpuce, clitoris, and carunculæ myrtiformes in women; and about the anus in pathics. When When they protuberate somewhat beyond the surface, their bases contracted, and hanging as by a stalk, they are called porri. These porri will sometimes grow to a considerable length, drop off, but come again; and if they are scattered about the glans in men, and at the entrance of the vagina in women, they render coition both painful and troublesome.

When they feem concealed under the skin like as with an hard lump, large and oval, round and spreading, they are called condylomata. They are more frequent in the tegumental parts, the perinæum, scrotum, and the tegument of the penis in men, and in the labia alæ and perinæum in women. These are rather more troublesome to get rid of than the former; since they seem to have struck deeper root, and are apt to spread their area in the tegumental parts; and sometimes they sprout out from the surface and produce little beds of porri and verrucæ.

Sometimes these warts take on the serrated appearance of a cock's comb, when they are called cristæ; these are most to be found near the corona and the frænum in men; between the nymphæ and labia, and very frequently abut the anus in women; but especially in pathics, when they are of the worst specie: These differ considerably from the former in figure; which however seems more owing to the places they are confined to

than any thing elfe.

These venereal excrescences appear sometimes without inflammation, trouble, or previous notice to the patient; and even apparently dry up, and after a while disappear again. If the patient

takes

ed latent lurking pox (as he ought to do) the fly virus and their ambassadors are not so difficult to expel the territories; but if neglected, the enemy may be expected to approach. Sometimes these pocky warts are inflamed and sore, when they are then taken more notice of; and it is but just they should: For, if the patient is of an acrimonious habit, irregular, &c. not only phagedænic and cancerous ulcers are the result, but the confirmed pox is now at hand; and even sometimes has already laid its destructive soundation.

In regard to the production of these warty excrescences, we must not be too positive. It is supposed by some to be the elongation of the cuticulous pupilla; but this feems to me but a lame conjecture; for the horney fibres of these warts have fometimes struck root quite deep: Add to this, they generally take their commencement underneath the cuticula; fo that, that part, feems evidently to be excluded from the formation of them. Besides on some parts, viz. the glans, nay in the vagina, where they are most hard and horney, there are fcarce any cuticula at all. It is rather a production from a vitiated lymph which produces a fprouting of those callous and horney fibres; the formation of which I shall have an opportunity of faying more to, in a more pertinent place.

The next venereal excrescences are of the fungous and soft kind. These likewise acquire names according to their resemblance. Cristae are elongated laps of the skin resembling the combs or gills of a cock; and generally about the the anus in women; but particularly in pathics. If they are foft and flaccid, they are generally fomewhat fore, and feem to be moistened with a sharp ichor, from whence they are generally attended with frequent inflammation and disagreeable burning, until gradually they degenerate into a deep feated phagedænic and fiftulous ulcer. Sometimes the criftæ will be callous, fcaly, and inflamed; when they are not only extremely painful, but productive of the worst of evils in that part; particularly if unskilfully treated, and aggravated by caustics and other improper applications.

When these excrescences take on the appearance of mulberries, they are called mora; if like strawberries, fraga; like figs, fici; if like open

ripe figs, mariscæ, &c.

These excrescences take sometimes their posfession about the scrotum, perinæum, and sometimes, though feldom, about the anus in men; and the labia, perinæum and anus in women, But particularly round about the verge of the anus in catamites.

The mora and fraga are peculiarly common with the yaws; with this difference, that in the yaws they are common to other parts as well as the genitals; the same as the confirmed lues. Sometimes they are inflamed, fiery, and difcharge nothing but a thin ichor; when they are attended with a burning and acute pain; at other times they are a complication of as many little running ulcers as there before were protuberated pimples. e needs not for nies a diffinction

shall bayer advited us; it indeed there w

These excrescences are more peculiar to men and pathics than women. In men about the scrotum, near and about the rapha towards the anus; and by pathics all about, and in the anus itself. Sometimes they will be of an intermixture of yellow and ted; hard, and every head filled with thick ropy matter; at other times they will be of a flaccid and cadaverous hue; and yield

nothing but blood and stinking ichor.

The fici and marifeæ are flat spreading excrescences; they are more peculiar to women and lax constitutions than to men and tense sibred habits. Their seat is frequently within the pudendal labia, about the alæ, and particularly all round the anus. They sometimes spread their slaps very wide around; sometimes protuberate, split at the top, take on the appearance of a bursted sig; and issue from the numerous seed-like pimples a disagreeable sharp and sætid ichoric pus. When they appear on men, it is generally about the scrotum and the perinæum; but in pathics they obstruct almost the passage of the anus.

These and the mora, fraga, &c. or all of them, are frequently confounded with the piles, being not easy to be distinguished from each other; particularly when there is an actual intermixture: The hemorrhoids however, have in general (though this is not a strict rule) their bases wider than their tops, and appear somewhat conical, yet to make this distinction more nicely requires a great deal of practice. But the truth of the matter is, there needs not so nice a distinction as authors in general have advised us; if indeed there was

P 3

no other method to get rid of these disagreeable companions than by caustics, or actual cautery, and other horrid and ineffectual methods, I own the distinction very necessary; and it would be well for the patient if they were always mistaken for the piles: But we shall see in another place, that there are methods easier, safer, and more effectual, both for these excreseences and the piles too.

Though all these excrescences may be venereal, and generally proceeding from neglect or ill treatment, yet we must not strictly insist on, that they may not also be fimilarly produced from other causes, particularly the fici and mariscæ in the pudenda muliebria; which I have known instances of, where there was no room to suspect any thing venereal; but on examination I had reason to suppose they had proceeded from excoriations of the ichoric discharge from acrimonious piles; add to this perhaps a sharp fluor, or acrimonious catamenia, and want of cleanliness. Nor should we be too hasty to suspect the patient of pathic criminality, if we find fuch excrescences about the anus in man.

Where they fpread upon the teguments, on the scrotum, &c. there must certainly be a venereal infection at the bottom; but there is a poffiblity that fuch excrescences may be the production about the anus, from a very acrimonious kind of hemorrhoids.

But in common, except fome very rare instances, these various excrescences here mentioned, whether of the wart specie, or fungous kind, are not only venereal, but of a confirmed pocky pocky nature; and whether the patient is guilty or innocent, whether the causes assigned are seigned or real, the indication of cure should not only be externally, but aimed at correcting a latent acrimony circulating in the blood and humours, from which many evils, one time or other may be expected, if not timely subdued. The warty excrescences are of a more stubborn nature than the sungous kind, for though they at first seem more indolent, they frequently generate the most vicious, and even cancerous ulcerations.

Here I shall leave them, as from the first infection and local disease; but as they are more frequently the production, or the messengers of the confirmed lues, I shall take an opportunity of mentioning them in that place. There are various other equivocal productions of the first infection; such are the rhagadia or sissures in the anus, or in various parts of the pudendum muliebre. These chops issue sometimes a thin sharp ichor, and at times are very painful; if they are fresh contracted, they are not dissicult, but if their lips are callous and instamed, they of consequence are more difficult to remove.

Thus much then of the various productions from impure coition. It remains now to treat on the various other infections; but as they are more frequently of a universal nature, I shall consider their consequences in the next chapter: particularly as I have given my opinion on such kind of infection, under that head.

Here then I shall beg leave to conclude this ætilogical description of the first stages of the venereal disease. The experienced and unpre-

judiced furgeon will find, that I have been more particular on that subject than authors in general; though at the same time I believe more concise. As to students and theorists, they may be convinced of this, by making an impartial comparison, and consulting their judgment and reason: But to the obstinate and prejudiced, I advise personal experience, the best argument to teach them truth and a due compassion for their patients; if this fails, all other arguments must of course be ineffectual. How far I have described the painful fymptoms, patients who have fuffered can only be the most competent judges. At the fame time they may judge how far they have been properly treated. What the consequence is when the fecond infection takes place, we shall fee in the next chapter. complication of diffuriers accumulate themlelves

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Of the Second Infection.

AM now entering on a fubject, which, if it was minutely handled, would almost make a compleat body of diseases, incident to mankind; or in other words, a description of Pandora's box. This is eafily to be supposed, for when the virus is circulated in the fluids, and introduced into every particle of the whole animal composition, there must naturally arise as many diseases as parts affected, from whence fuch difeases can proceed. But we must not suppose that such a complication of diforders accumulate themselves in one and the same subject, or that the various diseases act alike in all patients: No, there is not one fingle cause existing which can lay the foundation to fo numerous, different and separate evils as the venereal virus; nor acts fo various in different constitutions. It is not only according to the various parts that become infected, but the operation is as it were guided, and conducted in its different modes of destruction, chiefly according to the constitution and habit of body the patient possesses.

There is not a disease incident to human nature, but what the venereal virus will occasion; or at least make so near a resemblance of, that there is no difference in appearance, or even the effects and consequences; it follows therefore,

that the causes are not only subject to be easily confounded, but subject to the greatest mistakes, if we have no greater confirmation than the prefent apparent symptoms for our guide. Nevertheless, there are peculiar characteristics attending the real confirmed lues, in regard to the progress it will make, if it is left to its destructive purfuit, without check or disturbance, either from accidents, or causes designed as remedies. It is fcarce possible to enumerate the various ailments incident to a second infection; whatever disease other acrimony, from whatever cause, may prodnce, fuch may likewise be effected by the venereal virus; whether external or internal; or whether from a first or second infection. And hence we fee the mere impossibility at times of adjusting the causes of diseases in general.

Throughout the animal economy there is a natural propentity to expel whatever is obnoxious to the tranquility of the fabric; and hence we experience in all infectious distempers, where there is an actual absorbed virus, that nature endeavours to throw the morbific matter to the external parts, in order to preserve the more noble organs of life from the pernicious attack: And so it is with the venereal virus, for though it may have been introduced and circulated with the sanguineous mass, yet for the most part it attacks the external parts, before it gains admit-

tance to destroy the vital organs.

When however other accidents interfere, or that those external parts either repel or generate, and continue the infection, what can be the refult, but an universal destruction of the whole animal animal fabric? It is rare, but what some external appearances, or painful symptoms, give the sirst alarm in the second infection; which if properly attended to, or properly treated, would stop the approaching evil in time; but unfortunately the first appearances are sometimes too slight to claim proper attention of the patient; and what is still worse, the remedy sometimes proves worse than the disease.

But in order to exhibit to view the various classes of diseases, and the dreadful havock the second infection is subject to, we will begin with the more slight effects, and trace gradually the various symptoms and principal maladies of the

confirmed lues venerea.

Of CUTANEOUS DISEASES.

tary prognostic by a favourable crisis of cutaneous eruptions, which is an effort of nature to expel the morbific matter; but their pathognomonic expulsions generally are the first messengers of the commenced lues. Though it is not quite without exception, yet in general it is as common, as that the gonorrhœa is the first intelligence of an impure coition.

Wherever the first infection was received, there likewise is the greatest propensity for the utterance of the disease. If the venereal infection was from impure coition, the genitals are more subject first to discover the venereal poison, than other parts of the body, provided though the

natural

natural course is not disturbed. But when there has been an universal circulation of the virus, every part of the body is equally subject to imbibe the poison. But whether from the least power of resistance, or from a peculiar propensity of the nature of the course of the virus, the tegument, or the skin, frequently give the first signs.

It must be observed, that the skin consists of four teguments; membranosa, adiposa, cutis, and

the epidermis, or cuticula.

The membranosa is the inner surface, and adheres spontaneously to the muscles, tendons, and periostium, according to the parts it covers.

The adiposa, or rather the cells wherein the fat is contained, continues over the whole surface, except the genitals and other regions as the scalp, eye-lids, and some few other parts of the head, where these cells end in lymphatic vessels; but in particular about the genitals; where they abound most, and all fat intirely disappears.

This part of the skin (if properly it may be called such) is a mere continuation of cells filled with fat in corpulent people, but scarce of any substance in lean, and particularly hectic consti-

tutions.

The cutis, which is next to the last mentioned, is the real skin, spread universally over the whole body, and is an interwoven texture of tendinous and nervous fibres, arteries, veins, lymphatic vessels, intermixed with a multitude of excretory glandulæ; insomuch that the whole tegument feems to be a glandulous substance.

On the external furface of the cutis is the corpus reticulare, which are the extremities of the

forementioned

forementioned veffels and nerves, interwoven in a plexus; and in this furface is the nature of the different hues which distinguishes the colour of the various species of people, black, tawny, and white; and this plexus is likewise the seat of the fun freckles, &c. The furface is filled with little papillæ, which appear more or lefs, as the skin is warm or cold, in a state of secretion or excretion.

And lastly, is the cuticula, or the fcarf skin, the external covering of all, which is of a horny nature, infenfible, and more or less substantial, as the parts are subject to external pressure and injuries. This cuticula feems on examination to be a continuation of interwoven scales, produced from the papilla of the extremity of the cutaneous plexus, and increases on repeated preffure.

Univerfally over the whole body of the skin, it is filled with pores, which are no more than the officula of the innumerable little glands, called the miliary glands; betwixt which on the hairy parts, each hair is planted as it were, with a distinct root; and correspond somewhat in colour

with the hue of the corpus reticulare.

This is a fhort sketch of the nature of the fkin, which ferves not only as an external cover to the body, like the bark of a tree, but appears in general to be a continued excretory gland; by which the body is in a perpetual evaporation; discharges obnoxious vapours (and in my humble opinion) exchanges it with particles abforbed from the circumambient air, or whatever furrounds it.

Now, according as the different parts of this curious mechanism of the skin that is affected diwous reticulare, which are the Augemities of the

with the virus, the various diseases must be the refult; add to this the different constitution of the patient. If the more external parts of the reticulare is tainted, a scabies or the itch will make its appearance. In moist and full constitutions, it will appear in puffules rifing up the cuticula with little bladders of matter, which gradually become fo many little ulcers; either dry up again, fall off, or spread their infection farther. In dry, feverish, hot, and scorbutic constitutions, and particularly the refult from a venereal virus, fuch itch is less moift, but more sharp; commences with an intolerable itching, and small inflammations; and hence proceed tettery eruptions, furfuraceous, and corroding herpes, ferpigo, impetigo, &c. These are all so many kinds of pforæ, or itches, and take on only these different appearances, according to the natural constitution and the present habit of body the patient is in at the time.

How troublesome soever and disagreeable the appearances of fuch cutaneous eruptions are, certain it is, that if they proceed from the first approach of nocturnal pains and other indifpolitions, fo, that on the approach of the eruptions; the wandering pains cease, the patient ought to receive them as falutary efforts of nature; particularly in our times, where we are happily provided with means, in that very effort, to eradicate the most virulent malady lurking in the blood. But at the fame time every fcabious eruption is likewise the first messenger of the most loathsome leprosy, elephantiasis, the whole train of the horrible lues, a cutaneous putrefaction,

For whether from the continued acrimony of the eruptions mentioned, or the increase of the humor from the blood, or both together is the cause, the acrimony of the virus will (if not rectified or prevented) attack the inner part of the cutis, corrupt the stamina of the fibres; generate a multitude of small phagedænic ulcers, which will clog up the perspiration; and either accumulate and generate scabs, scales, sores, sloughs, &c. and a continued concealed sharp pus and acrimonious ichor, attack the neighbouring stamina, and at length introduce the true venereal pox.

If the virus, instead of, (by the expulsion from the blood, or from the first infection, as before observed) attacking the external extremity of the cutaneous ramification, should feat itself in the inner substance of the cutis, the first attack must be expected more acute; and the pustules, since they are deeper founded, will consequently have more time to make their appearance; of course more painful in their progress, in which case the abovementioned evils are more expected,

all the class of cutaneous diseases are, when the membrana adiposa makes the beginning of this

or others not less grievous. But the deepest of

threatening calamity the pox.

Though the skin is in one continuation, and seemingly of one substance, yet from the different productions that the venereal, or any other acrimonious virus produces, it is plain, that the mechanical operations must be materially different; for at one and the same time, certain parts are subject to certain productions of disorders.

Porri,

Porri, verucæ, cristæ, mora, fraga, mariscæ, &c. are excrescences and protuberances of the cutis, which are peculiar only to the teguments of the pudendal parts; or in a very desperate case, extend perhaps to the mouth, nose, or neck. These excrescences are so exactly alike in the yaws and the lues venerea, that they coincide in those disorders, so different in their names, both in essect and remedy. Nay, in the very leprosy too, these excrescences keep their aspect, when the whole surface of the body besides has a

quite different appearance.

Ragadia which are fiffures, fometimes deep, callous, &c. are peculiar to the anus, the corners of the mouth, nostrils, eye-lids, nipples, &c. These however may proceed from extension and contraction, though of the same malignity with the former. Different from these in appearance are the chaps in the palms of the hands, and the soles of the seet; both proceed from the acrimony of virus, searching as it were to the cuticula, by which it is shrunk together; add to this the crusty slakes occasioned from dried up pussy discharge, which not only are brittle themselves, but deprive the cuticula of its natural pliableness and tenacious elasticity,

The Alopecious furfuration of the head, is common to the leprofy, the yaws and the lues venerea; in the latter, it is called the corona veneris, or the venereal laurel. It takes its commencement from behind the ears, extends itself over the greatest part of the forehead, and all behind, below the hair on the neck. Whilst it receives a clogging support from the hair, the

fordid

fordid scurf must there be the thickest, and most pernicious; as also in the eye-brows. This is of the same kind as the scald head in children, and the antient leprosy, where the scab is crusty, scaly, interspersed with a sætid slough, and frequently abound with vermin; particularly in children and leucophlegmatic habits.

Whatever complexion the patient is naturally of, whether black or white, and whatever natural hue the hair might have been before, they now lofe this hue, become of a filver white, and at length fall off, root and branch. When the patient is crowned with fuch a laurel, his afpect

and condition is horrible indeed.

A feabby head is generally the attendant of a universal cutaneous malignant eruption; and how moist soever the other eruption on the rest of the body may be, whether a postulous psora, serpigo, impetigo, phlyctæna, &c. the head, if it partakes of the infection, will always be more scurfy than the rest, and attended with an ophiasis: For since the humors dry up, and become clogged in the hair, the concealed virus cannot be discharged; must therefore not only accumulate the fordid scab, but corrupt the stamina and nutrifying vessels of the hair; destroy their root, and consequently make them fall off.

Furuncles, of whatever kind, if their roots are not deeper than in the cutis or membrana adipofa, are for the most part confined to the muscular brawny and tendinous parts of the extremities, the arms, legs, knees, elbows, loins, and shoulders; but very seldom to the softer parts of the body. If they are near the glandulous

dulous parts, they are apt to occasion scrofulous tumours, and give birth to many evils. If these furuncles are venereal, they are the true pox; though of the cutaneous kind; of which more hereafter.

Gummata are fometimes cutaneous; they are the most sluggish, but likewise the most obstinate kind of tumefaction in the skin; whether they are the atheromata, meliceredes, or steatomata, they generally take their abode near the glandulous parts, about the neck; particularly about the parotid glands. How cutaneous foever they may appear to the touch, they frequently have a strumous foundation; and if they are encysted, the extirpation of their bag, as well as their contents, (when it is practicable) is the furest remedy. If their origin is venereal, they are generally steatomatous, and stubborn enough to the most experienced surgeon, let him go to work which way he will.

Here I shall beg leave to break off in the catalogue of cutaneous diseases, that may be occasioned by the venereal virus. Let it suffice once for all, that whatever cutaneous eruptions or difeases, any other acrimonious virus may occafion, fuch may also be effected by the vene-

real poison.

What the yaws is with the negroes, may happen to be the pox with an European; and when the pox attacks a patient of a dry choleric constitution, so that he becomes crowned with a venereal laurel, and his body loaded with a fulfome, fordid, fcabby fcurf; he is exactly in

the state which answers to the description of the leprofy; and one method will cure them all.

Of GLANDULAR DISEASES.

THEN the venereal virus is admitted, and circulated with the blood, it is of course very apt to affect the glands; and this happens so general, that it is very seldom they escape. If we consider the glandulous parts in a general fense, there is fcarce any one single part of the whole body exempt from having fomething glandulous in its composition; for the glands are the elaboratories of the very particles of which every part of the body is composed; infomuch, that the whole animal fabric may be confidered as a gland composed of an infinite number of other smaller ones. But the enquiry here, concerns those glands only, which are evident to the external parts, come under surgecal considerations, and require fometimes manual operations and topical applications.

It is not only the continual natural glands which become affected by the virus, which turnify, inflame, and ulcerate them; but what is remarkable, and worth a ferious confideration, is, that when the habit is loaded with virulence, whether venereal or otherwise, spurious glands will adventitiously arise, where nature in the sound state never designed any: And these last are always of the strumous kind. This we experience not only in the external parts, but also universally in the viscera, and even in the more nobler

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parts.

be intermixed with preternatural.

This confideration will naturally lead us to make a rational distinction, betwixt that kind of tumefaction, which arises from an obstruction and accumulation of humours; and that kind of tumour, which has actually a secreting and excreting excrescence, or preternatural gland for its foundation.

Whatever is against the common course of nature is a difease; and such glandulous tumefactions are evidently difeases; which may have many evil tendencies: But notwithstanding, when we duly confider the wonderful felf-preferving principles of the animal œconomy, we shall find that the first onset of these tumours are the falutary efforts of nature, in order to accumulate the obnoxious humour, with an intent either to imprison them, or if possible to expel them; to this we must add, that the weaker parts must always yield to the refisting of the stronger. And whilst the enemy is wandering in the animal territories, equally abhorred and refifted by all, it fixes at length where it finds least refistance; and if repelled from thence, either by some accidental effort of nature, or aided by some other agent, the virus is fent wandering again, till it finds fome other abode. Hence we find in venereal and other virulent diseases, that pains and indifpositions, will be drove from one part to another

till at length, some province is sacrificed for the good of the whole, where the virus accumulated is expelled; or else, if the virus becomes the strongest party, the whole animal state is massacred.

Every gland is composed of arteries, veins, fecretory and excretory ducts; of these necessary tubuli consist their elaboratories: But in regard to their peculiar arts of manufacturing the various humours, is to me a prosound mystery; and I must leave this to the explanation of those, who know the art to account for every thing.

Whilst the venereal virus is merely confined to the genital parts, a bubo, hernia humoralis, &c. will interchangeably make their appearance; but when the whole mass of blood is tainted, all the glands are equally liable to the attack. The inguinal, axillary, maxillary, &c. are generally the first sufferers. At the attack they become hard and indolent; and proceed in their progress much as in the recent bubo; but with more stubborness, indolence; and are point blank strumous.

At the approach of strumous tumours, (whether they are venereal, or from other latent virulency) the adjacent members are generally partakers. The first appearances are generally in the natural glands; as for example, if in the tonsils, the axillary, glands, &c. the virus takes up its abode, and if either by repulsion, or otherwise a spreading of the virus happens, the neighbouring muscles will partake of the infection; thence phymatic swellings will arise, between the muscles of the neck, and sometimes extend to the arms, making the surface of the part hard and knotty; which

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by intervals will disappear and come again, till at length the whole neck will become strumous: So, that the natural glands, and the preternatural tumefactions, will have a go-between communication with each other; till at length one, or the other ulcerates, and becomes supplied by a fiftulous conveyance with a perpetual running from the neighbouring tumefactions. And this malady, if it is from any other cause than from a venereal virus, is called the King's evil. In like manner, acts the latent pocky bubo; which will be liable to generate corresponding phymatic tubercles, between the neighbouring muscles of the thighs, &c. and form fiftules, of deep extension; which render fuch strumous, or scrofulous ulcerations very difficult of cure, particularly in acrimonious or univerfally tainted habits. These scrophulous tumours and ulcerations, will fometimes be of a malignant nature; extend themselves towards the joints, where not only the fynovia is liable to become callous, but the ligaments affected and tumefied: From whence cold indolent tumefactions, called white swellings, will arise; cause anchylosis, caries, hyperostoses, and other diseases of the bones; and sometimes unfortunately end in incurable maladies.

These strumous or scrofulous evils, so called, in non-venereal patients, are branches of the confirmed lues in the venereal; and if they are equally proceeded with, the fate of the patient, venereal or not, either in the fuccessful cure, continuation of the malady, or total destruction of

the whole animal fabric will ever be alike.

If we feriously examine scrofulous disorders, and the remedies prescribed for them in general, we shall be surprized at the gentleness of the method, and the strenuous abstinence from mercury, and falivation: On the other hand again, if the fame ailments and the fame fymptoms are pronounced venereal, we must be equally astonished to find the patient immediately plunged into the deepest salivation; where he either must perish in the experiment, or if he furvives, continues the same, except receiving an addition to his former evils. The difference of the two extremes is, that the first remains uncured from want, the latter from too much of the proper means; the medium however, would ever give fatisfaction to all parties.

There is no one part in the human body, but what is glandulous; yet in the plentitude and delicate structure thereof, there is a material difference in the various parts. The texture of the fauces, the roof of the mouth, the uvula, &c. correspond so exactly with that of the genital parts, that the venereal ulcers will act almost alike in both, which we shall here consider.

The lining of the mouth, throat, nofe, and all its various corresponding cavities, is of a perfect glandulous substance; and whose surface is porous, nervous, and delicate; besides the various assemblages of conglomorate falivary glands, variously distributed in the walls of the mouth, as the maxillares, parotides, sublinguales, and the tonsils, which furnish the aliment in mastication with faliva: The whole surface is provided with innumerable lacunal ducts, which

exfude a lubricating mucus, by which the mouth and all its various parts are kept moift, pliable and flippery.

The various organs in the mouth are for the most part of the same substance; the tongue, the uvula, and great part of the larynx, to which

we may also add the gums.

The falivary glands being continually in action, and doing much bufiness in the animal commonwealth, have consequently great correspondence with the fanguinous mass, and therefore very subject to be infected. And whilst their branches extend to the neighbouring organs, they of course, one with the other communicate the infection.

The lips, the roof and uvula refemble the internal parts of the pudendum muliebre in texture as much as may be; and therefore, when infected, with the venereal virus, ulcers will arise, which in themselves are of the shankerous kind; and if the habit is acrimonious, they are liable to occasion the most malignant, phagedænic and putrid ulcers: Hence the lips, the cheeks, and the uvula, are liable either to become cancerous, or totally confumed, by the corrofive ulceration: And whilst the lining of the roof is but thin in substance, and the bones which it covers, thin and spungy, a caries frequently enfues; attacks the various spungeous bones of the upper maxilla, and destroys the whole natural texture, and formation of those parts.

The membrana pituitaria, which lines the internal furface of the nose, and the various communicating cavities, is also peculiarly apt to

imbibe

imbibe the venereal virus; and from hence, fubject to many malignant and stubborn maladies. The peculiar texture of this glandulous tegument partly for feereting the viscous mucus, voided by the nofe, and partly to lubricate the parts, and to preferve the delicate texture of the olflactory nerves from external injuries, is remarkably subject to fungous and phagedænic excrescences, and putrid ulcerations, at the attack of the venereal virus, or other virulent injuries: For fince the mucus is more pituitous, it confines the virus from attacking with that rapidity, as in other delicate parts; though in time becomes for that reason more pernicious. Hence in those parts arise gradually fungous, fætid, and phagedænic excrefcences; which foon degenerate into polipous, carcenomatous, and putrid ozænæ; which corrofive ulcers, foon attack the neighbouring bones, render them carious, and totally destroy them: Hence also, when the offa nafi and the septem is lost, the nose falls flat to the face, obstructs the former passage, and occasions snuffling. When the offa palati and os vomar, &c. are deftroyed, the tone becomes hollow, fonorous, and unintelligible, &c. the frequent dreadful consequences of such malignant ulcerations.

The uvula is also subject either to be enlarged with an excressential, and inflammatory tume-faction; sometimes even so as to chook up the very fauces, or else to be totally lost by the phaced enic exulceration.

gedænic exulceration.

The tongue, particularly the roo

The tongue, particularly the root, is also a principal seat of venereal ulcerations; the glandulæ

dulæ fublingualis are fometimes in the same state; affect the whole tongue, swell it up to a great bulk, and make it not only painful, but burthensome and useless.

Frequently the muscles of the uvula, the sphenostaphilinus, and the pterygostaphilinus, &c. will be ulcerated; this, together with the ulcerations of the tongue, (as frequently is the case) particularly the muscles, whereby the os hyoides becomes corroded, occasions a lameness of the tongue; a hoarseness, incurable difficulty of speech, and a defective deglutition, are the ab-

folute remainders even after the cure.

But the most destructive seat of the virus in those regions, is in the larynx. This most curious and complicate organ is composed of sour kind of substances; namely, cartilages, muscles, glands, and membranes; whilst these different parts are so intimately connected with each other; add to this, being plentifully interspersed with nervous ramifications, and these communicating with the various neighbouring parts; it is easily conceived, that a virulent attack, in that part, must be attended with pain, malignity, and danger.

If the attack is with an inflammation and immediate ulceration, it proceeds in its progress like a malignant anguina or quincy. Frequently however it will come on more flowly; and from the continuation of the pituitous membrane, fungous excrescences will arise; which gradually will become malignant, setid and phagedænic ulcers. Sometimes these excrescences will choak up the bronchia, and the whole fauces with excrescences

crescences and tumours, so that the patient is unable to be supplied with sustenance, and sometimes forced to the operation of bronchotomy, to

prevent a total fuffocation.

A putrid fore throat, whether venereal or not, is always to be confidered as the most malignant and alarming malady in its nature; for whilst the parts of the larynx is of so complicate a form, the ulceration is hurried on with great rapidity, and the inflammation liable to obstruct respiration, a function absolutely requisite to the existence of life. But besides these inconveniencies; whilst it is in the state of ulceration, the phagedænic discharge is liable to fall down the aspera into the lungs; attack the vesicles, and then plunge the patient into a mortal consumption.

The gums also, are equally with the former subject to become infected, grow spongy, soft, and tumefied, silled with little phlyctenæ, which gradually become so many ulcers; the teeth become black, will corrode, and at length fall out; together with the alveoli becoming carious and

will exfoliate.

From all that has been faid, it follows, that the breath of fuch pocky patients, with any or all these phagedænic and sætid disorders, in the mouth and nose, must be highly offensive to themselves and every one about them; and if not immediately affisted, the virus must from thence be transported to every part of the body: For since the aliment in mastication and deglutition must partake of the ulcerating matter, it

is demonstratively plain, that the very nutrition

must become poisoned.

The worst condition of ulcerations in the mouth, which the patient possibly may fall into from a venereal infection, and with all the dreadful consequences, we find frequently brought on by salivation; nay even where there was not the least symptom of ulceration in those parts before; and how frequently do we not find, that when the patient has had strength enough to survive this severe touchstone of his constitution, that instead of being cured, he has only augmented his evils!

The eyes are also very liable to attract acrimonious humours from the body, whether venereal or otherwise; but whilst the body is generally rendered most of a bad habit, in the venereal infection, the virus, wherever it is propelled to, acts with more virulence than in other cases. In pocky patients we frequently find (at the first attack of the eyes) that the eye-lids become beset with hordeola, which inflame, ulcerate, become scurfy and scaly, and are attended with a lippitude; the canthus major also inflames, ulcerates, and frequently occasions an obstinate encanthis, fissula lachrymalis, caries in the os unguis, and other evils.

Sometimes an aegilops will appear in the canthus major; which will spread itself over the albuginea, and even over the cornea; cause a number of siery nubeculæ and inflammatory phlyctænæ: And in this consists frequently, the venereal external inflammatory opthalmia.

If

If the virus gains admittance into the various humours of the eyes, whether the aqueous, vitrious, or crystaline, they will of course lose their transparency, become viscid, turbid, and confounded in their secretion: Hence will arise a glaucoma, or a suffussion; if continued, a sugillation attended with a dull heavy pain, gradually brings on an hæmalops, and an internal inflammatory opthalmia; which at length will end in an hypopion, or else in an exulceration of the whole eye.

When however the venereal virus has attacked the optic nerve, a gutta ferena must consequently follow, either with or without inflammation;

and other attending maladies.

The ears likewise partake of the wandering virus; either as it passes through the sebaceous glandulous lining of the meatus auditorius, or its containing implements of hearing; or whether it is conveyed thither through the eustachian tube, from the affected parts in the mouth; in either case, the various parts of the internal ear are liable, not only in the venereal, but any other

wandering virus, to ulcerate.

The ear-wax feems a fecretion, different from all other productions of animal fluids; the nearest resembling to it, seems to be the sebaceous viscidity, exsuding from the sebaceous glandulæ which unite the cuticula to the reticular plexus on the surface of the cutis, and makes the skin more or less greasy; which is most conspicuous in the face, in the morning, particularly after a gentle perspiration. Whether the ear-wax is the same, and only accumulated more in these parts, unable

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unable to be cleaned away, I cannot determine; certain however it is, that the smaller the quantity secreted, the better are the organs of hearing; and that its encrease attend most diseases in those

parts.

When the fecreting tegument in the ear is affected with the venereal virus, the wax becomes hard, scaly, furfuracious, sharp and sætid; when it also corrodes the tegument, and occasions at times the most phagedænic ulcers: Which always turn out carious to the bones: Hence arise sharp and sætid burnings of the pus and ichor from the ear; attended with frequent exfoliations.

If the miasmatic virus is introduced to the inner parts either by the aqueduct from the uicerated mouth, or from other conveyances, fo as to attack the auditory organs, the tympanum, the femicircular tubes, or the little bones themfelves, the incus, stapes, malleus, os orbiculare, or all together; exostoses, hyperostoses, caries, malignant, phagedænic and fœtid ulcerations, together with a confumption of these parts, and loss of hearing, must be the consequences: Hence an exquisite painful and tumultuous inflammation, with a variety of apparent founds, attended with a heavy pressure in the temples, and an inflammatory tumefaction of the external ear and the neighbouring parts; which fometimes extend even to a hyperoftofis of the os temporale; which at last burst out with a phagedænic ulceration, and running of fætid pus from the ear, with frequent exfoliations, till the whole organ of hearing is confumed and de-

stroved.

The breafts of women, from their complexed and elaborate texture, are fubject to many ailments; either from accidents, a default of their appropriated function, or from the attack of acrimonious humours; whether infectiously attracted, or of inveterate standing in the body; the venereal virus confequently subjects these organs to many grievous maladies, and makes them often the repository of complicated evils; even the most terrible of all, incident to human

affliction, an ulcerated cancer.

Suckling women are subject to receive the infection from pocky children: when fometimes the nipples or the areola, will give notice, with acrimonious rhagadies or malignant chaps; at other times those and the neighbouring parts which come in close contact to a pocky child, will be strewed with phlyctænæ, interspersed with efflorescent furfurations; at other times the miasim will be absorbed by the returning vessels, and be received into the circulation of the blood, and make those organs the attack of chance, equally liable with any other part of the body.

We should however with the greatest circumspection and caution form our opinion, concerning fuch infection; but particularly in communicating our fentiments of these matters; for a child may labour under many afflictions besides the pox, though equally as grievous, and which is apt to be communicated to the nurse; however, whatever it may be, that the child labours under, unless it utters itself by external appearances,

either

either in blotches, tumors, or external exulcerations, of any kind, I cannot in my opinion allow of any infectious communication. But the cafe is materially different in regard to an infected nurse with suckling a child; for fince there is a continual afflux to the lacteal glands in the breaft, and the fecreted milk continually drawn off by fuction, the communication of any acrimony is demonstrative; infomuch, that frequently the cure of the one has been the death of the other.

Women have many periodical infirmities, to which men are entire strangers. They are subject to many more, and even more malignant ailments than men: But they are at the same time provided with many more outlets, to prevent, and evacuate them; fo that on the whole, in regard to the laws, manners, economy, and the government of their animal state, they are quite

a different fet of beings.

The breafts are principal members to the act of gestation; as such there is a continual correspondence with the remaining organs of generation. At the approach of the catamenia, the breasts are more than ordinarily turgid; and whatever ailments they are subject to, utters itself most at that time: But when the menstrual drain is opened, oppressed nature finds immediate relief: Hence women, whilst they are regular in their menses, are the least sub-An occult ject to ailments in their breafts. cancer may remain there for a long time dormant, and without disturbance, if not injudiciously irritated; but experience shews us, that, at the disturbance or discontinuation of the menftrual

Arual evacuations, the sleeping fiend awakes, and

threatens mifery and destruction.

On the whole, whatever ailment may befal the glands, and the glandulous parts, from other wandering malignities, such may also be effected from the venereal, and vice versa: And so true it is, that proper and rational remedies will be equally successful, whether the origin of the evil be venereal or not; let pedants and sophists say what they will to the contrary.

What has been here related in regard to external evils, will comparatively hold good with internal difeases, subject to the venereal virus; and which we shall take a cursory view of, under the title of the dry pox. We will therefore proceed to the destruction of the bones themselves.

Of DISEASES of the BONES.

fubstances, are subject to undergo as many destructive changes, in proportion to the nature of their texture, as the softer and glandulous parts we just now lest, from any wandering virus; particularly the venereal, the subject we are now treating of. They are subject to tumefy, inflame, ulcerate, corrode, dissolve, and be converted into another kind of substance; become soft, slexible, and even lose entirely their offisied stamina.

The formation of the bones, or offification, has employed the speculation of many; however still we remain in the dark. I will therefore ven-

a light as I expect it ever will be to human comprehension; namely, that the bones are formed of the same materials as all other animal substances, only differently modified, and connected. This will sufficiently answer our purpose as manmenders, man-makers we must not pretend to be. Yet as far as effects lead the way to assign causes, we have the undoubted right of searching for causes, which may have falutary effects; but no sooner do we pretend to supernatural wisdom, but we make ourselves useless, and compleatly ridiculous.

In the natural flate of the bones, they are the hardest in substance, but the least endued with fenfation, except the perioftium, and the medullary fubstance in them. They increase in hardness with age; till at length they lose their tenacity, and become quite brittle. All, except some part of the teeth, are covered with a thin tendinous and nervous membrane; which in one continuation glides along, over the whole bony frame, including the various articulations. Over the fcull this membrane is called pericranium, all that covers the rest of the bones, perioftium. The great bones of the upper and under extremities, are narrowest, hardest, and hollow in the middle; largest and spongy at their ends: All the rest are partly solid and spongy. Those defigned for motion have their extremities covered with cartilages. The articulations are firongly connected with the perioftium, affifted with strong tendinous ligaments. The internal parts, whether hollow or fpongy, are filled with marrow, marrow, which is a fubtil fine oil, invested with a delicate, nervous, and fenfitive cellular tegument. The bones are variously perforated, where sometimes fanguineous vessels, and fometimes nerves inclosed with the periostium, penetrate; which fometimes are lost in the substance of the bone, at other times in the medullary fubstance in the bone, particularly in the meditullium. The joints are lubricated, and move in a transparent glutinous liquid. In infants the bones are large and thick, but foft; at the ends cartilaginous and the heads of the moveable articulating bones, large, foft and fpongy, and eafily feparable from the harder part; the whole of a reddish hue. In the prime of life, the bones become hard, tenacious, ftronger connected, and in colour inclining more to a white. In old age the bones become fmall, hard, but brittle, and inclining to the yellow. When a bone is fractured, there will ooze out from the fracture, a glutinous liquid, refembling the fynovia, which will gradually offify and cement the fractured parts, as firong as before; and this is plentiest in young subjects. These are some of the natural properties of bones; but let us now proceed to their diseases.

Whilst the blood, and other circulating humours, must have their course through the various bones and their connecting parts, it is natural to suppose that the venereal virus, as well as any other acrimony, must become obnoxious; and prevent the course of the animal fabrication and economy in these substances, as well as all others; and in proportion to the distribution of the ner-

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vous ramifications of the parts attacked, pain and inflammation must ensue.

An exoftofis is the general term of a protuberated unnatural bump perceivable on a bony part. These tumors are generally flow in their progress. If the tumor is foft from its commencement, it is generally termed a gumma. This excrescence has various origins; sometimes it takes its commencement in the cutis, fornetimes in the perioftium, fometimes on a tendon, and fometimes fprouts out with a steatomatous excrescence from the substance of the bone itself: either at the spongy extremities, or the hardest parts thereof. Whereever be its origin, this is a true venereal pock, (though other wandering virus may equally give birth to it) and has always fomething malignant and stubborn in its composition: Sometimes its contents will be steatomatous and encyfted; fometimes callous; and fometimes offified; though diffinet from the bone. Sometimes this kind of tumor is inflammatory and painful; at other times, indolent, and infenfible; yet fometimes all on a fudden begins to rage. Let thefe kind of vifitors act as they will, they may always be confidered in fufpected patients, to be the fcouting forerunners of the whole army of pox laying in ambuscade.

The exulceration of these kind of tumors are generally attended with a caries of the adjacent bone, particularly if it is adherently connected; for from this, and from their steatomatous fungosity, together with their aptitude of ossisication, it appears plainly, that their origin is from

a virulent extravafation of the callus, from the

bone itself. The true exoftofis however, proceeds from the very substance of the bones themselves, and are protuberances of offified matter; and those are called nodes. Sometimes a node is a protuberation of a hard and folid bony substance; at other times, it will, as it were, be a bony puffule, or knot, filled with an irregular fleshy excrescence, either of the steatomatous kind, or the carcinomeus. Sometimes the bone on that part will be more folid than usual, and the tumor in appearance will be like the hardest ivory; at other times rough, prickly and spongy, filled with a variety of irregular bony, cartilaginous, and fungous cellulæ and fubstance. These tumors will fometimes come fingly, fmall, large, and fometimes, irregularly scattered over the various bones, both hard or foft; either without, but generally attended with nocturnal pains.

The spongy bones are most subject to these excrescences and tumefactions; and sometimes the whole bone will be equally every where distended and swelled: And this is termed a hyperostosis. When however this tumefaction extends to the harder bones, without any other external

appearance, it is called a spina-ventosa.

A hyperoftofis, at the extremities of the bones, are fometimes attended with very acute pain; but at other times, with a flow, heavy, and dull fensation. The spina ventosa however, as it is generally a production from an internal ulceration of the marrow, either in the cavity of the hollow bones, or in the cellulæ of the spongy substances,

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cannot

cannot fail of giving the patient the most exquifite torture; and this malady is perhaps one of the most deplorable a patient can be afflicted with, except the cancer; especially in the tibia, or any of the greater bones; and particularly if it increases so, as to bore its way by an external corrosion. In this miserable case, inflammations, phagedænic, fœtid, and flubborn ulcerations enfue, attended with fungofities and repeated exfoliations, till nature has formed an entire new bone, in the place of the old decayed one. But fuch a fortunate refult of renewing the decayed bone is not always the confequence; for fometimes the whole bone will become as if worm-eaten, or perforated like a honeycomb; add to this, that various bones may be affected at once: Nay, I have (and no doubt other furgeons have too, particularly in hospitals) feen whole skeletons mangled in the most miferable manner, by the venereal and other difeafes.

An exostosis may proceed from a contusion, or a sudden wrench of a joint, but this is materially different from that proceeding from any virus; for the former is merely a simple extravasation of the callus, either from the tendons, or from the bone, (for there appears a great similarity in their nature) whilst the latter is a consused jumbling of an unconcocted and depraved callus, drove out from the texture of the bone: But how this happens in the various forms, we may indeed jar, but we cannot reason or account for, at least with

any fatisfaction.

There has long been a famous question in debate, whether the bone takes its origin and support from

from the perioftium, or the perioftium from the bone. There let the question remain: To me the very question appears abfurd: But this, from experience in surgery I know, that when a bone is carious, and labours under an exfoliation, the found part encloses itself in a new perioftium before it pretends to push forwards the carious scale; and till this may be performed undifturbed, the ulcer will remain malignant, and the caries, and repeated exfoliations will continue: For the delicacy of the bony fubstance is so great, that even the least air will affect it, without any other cause. I have often blushed for some of my brother furgeons, on account of their over officiousness in scraping the bones; and they themselves must at times have been consused, to find that an old woman (skilfully, though ignorantly, letting nature have its way) fometimes has performed a cure, while the educated furgeon, by fine finished scraping and perforating instruments, only disturbed the falutary efforts of nature, and augmented the evil.

Nodes attack all the bones in general; but remarkably the hard lamina of them, and those least covered with muscles: Hence when a venereal patient complains of nocturnal pains, the tibia, ulna, &c. feel rough and knotty, nodes and bumps, like young calves horns, sprouting out about the fcull, you may fafely pronounce him

poxed to the back-bone.

An hyperostosis may likewise proceed from various other causes; ricketty children are subject to it, which frequently throws them for the future in a different decrepid form, to what nature first designed. Young people at the age of puberty, R 4

puberty, even fometimes from a leucophlegmatic habit, will be fubject to this difease; and from whence they will shoot up with pain and awkwardness, and have remarkable large and clumfy

joints.

A fimple hyperostosis may, and is sometimes the effect of a venereal virus, when the offified matter is stimulated to a greater congestion to fuch parts; but in the general course of virulent difeases, the tumefaction is of a corroding nature, and which frequently is attended with a fcrofulous fwelling of the ligaments, and the whole joint. Such fwellings are fometimes grievous in their nature; the fynovia will alter its nature many different ways; fometimes turned into pus and ichor, the joint becomes aposshumous, corrode the cartilages, and the heads of the bones; in confequence of which, a most malignant ulceration and exfoliation must ensue; sometimes the fynovia will be degenerated into a fungous excrescence, become callous, bony, and occasion an anchylofis, with a troublesome deformity of the articulation, and the adjacent limb. And fometimes the fynovia will be converted into a variety of calculous substances, where it will obstinately remain with pain and distortion of the parts.

A spina ventosa, is a terrible disorder, especially when it continues and attacks the whole bone; this is a true inflammation and exulceration of the very ossisted parts of the bone. And as it is universal, it cannot fail of attacking the passing and repassing ramifications of the nerves; as well in the periordium, as the medullary sub-

stance,

stance, and the adjoining tendons of the muscles fixed to the various parts of the bone, and confequently the pain must be very extensive. Hence the patient feels a continual gnawing in the bone, as if it was bruifing and grinding; and in the musculary parts, as if being torn away, &c. which lasts, with repeated intermittent paroxyfms, till at length the external parts become aposthumous, opens and bursts, into a most fœtid and phagedænic ulceration; which continues, attended with exfoliation, till nature has fupplied the place with new offification; and replaced another bone. But to fuch a falutary confequence, it requires not only very judicious treatment, but also a young, and good constitution of the patient.

This dreadful exulceration of the bone, will fometimes, not only in its fury, reduce the bone it attacks, to a mere mass of mouldring corruption, but spread its dreadful infection farther to all the neighbouring bones; and sometimes even attack the whole offisied frame: Such a skeleton

have I feen, as has filled me with horror.

But amongst the various diseases of the bones, that of their becoming soft, appears, and indeed is, very extraordinary; yet so it is: They will sometimes become soft, slexible, and appear more like a piece of confused sless, than the substance of bone; and this is called ofteosarcosis. This may be produced from the venereal virus, as well as from other causes. Instances have been where this extraordinary disease has crept upon patients without much pain or other inconveniency, than that their limbs have bent under the support of

their body, and at length rendered them useless: But in the general course, it comes on with an inflammation and heavy pungent pain, the same as a spina ventosa; at length the bones swell up into a bloody pussid-up mass; and then become subject to the various kinds of ulcerations, as all other sleshy parts: As a specimen of which, I have seen an injected bone, (where this disease proved mortal) which was not only greatly beyond the natural size in bulk, but plentifully distributed with very large blood vessels; otherwise of a rough, spongy, cellular, and sarcolous texture.

In fact, there is no part of the body fuffers more from the circulated venereal virus than the bones; infomuch, that when a patient has received the pernicious poison, and circulated it in the blood and other humours, he generally carries for ever some remarkable certificate of his faithful fervice in that rough campaign. Hence a flat nose like an ape, or perhaps an artificial one; fore and lippid eyes, perhaps fquinting; running of stinking matter from the remaining nostrils, and from the ears; rotten teeth and confumed gums; stinking breath; large fcars about the chaps; dry and knotty neck; huge shoulders; stiff and large elbows; decrepid wrifts and fingers; stiff knees; bandy legs; a virulent gleet, and firumous iffues; a ghaftly look; fuperannuated in conflitution, &c. &c.

But though these are the remaining decrepitudes of an invalid, half pay, or superannuated venereal hero; yet we have daily instances, that some of such deformities, are the providential lot of others, whose parents as well as

them-

themselves have been innocent, and free from venereal diseases; notwithstanding which they have been equally as great sufferers, from other

wandering humours.

There are many other furprifing difeases incident to the human machine, which a wandering virus, or other accidental default of nature, may give birth to. Inflances have occurred where the whole bony frame has degenerated into a foft fpongy mass; on the contrary, we have cases of universal offifications; nay, of petrification: But what is yet more aftonishing, a conflagration from an intestine self-kindled fire; the patient alive, and reduced to ashes, in the space of a few hours! These are facts surprising to the human imagination; but they are in reality no more mysterious than all other phænomenons in nature, and every other difease; except on account of their accidental fearcity. We may philosophife as learnedly as we pleafe, but the deeper we dive into these subjects, the more we shall perceive, that all what we have faid, and can fay, amounts to little more than nothing. But to return to the ordinary effects of the venereal virus.

When a patient has from bodily experience ferved his apprenticeship to the pox, and has had the virus circulated in his animal frame for any time, particularly in the bones, it never fails of reducing the whole constitution, and bringing on old age in a short space of time; for since the virus is a perpetual spur to hurry on the vital functions, natural wear and tear must of course increase, together with various remain-

remaining drains. Hence we see the forementioned remains, or at best, find a diminished statue, brittle and small twisted bones; and all the decrepidness, witheredness, and incapacity of insirm old age; at the years of natural bloom, health, and vigour,

Of the WANDERING, or DRY POX.

RY pox, is rather a popular, than a phyfical term; but fince custom has brought
it into use, in order to signify a latent wandering
venereal poison, that torments the patient with
a variety of hidden, sudden, and unexpected ailments, from which he must expect, sooner or
later, to fall a sacrifice to the consirmed pox, I
shall here make use of the term in that sense;
and under that title, consider such disorders proceeding from a venereal virus, as make no ma-

terial external appearances.

In the first place, it is obvious from reason and experience, that the venereal virus, will be as mischievous to the internal parts of the body, as to the external; but in general, this is not so frequently: For there is a natural propensity in the animal economy, to expel what is noxious in the viscera to the external parts. Whether this is from a natural superiority of effort ordained by nature, to preserve the principal animal functions, as much as may be, from satal injuries; or whether, the internal parts are supported by the vital heat of the body, and thereby streightened to such an expulsive effort, I shall not take upon

me to confirm; though I am inclined to think, both thare in giving this superiority of power of felf preservation. Yet notwithstanding, when the first efforts become unsuccessful, they are fubject to become equally liable with the external parts; and when once they have imbibed the poison, and yielded to the oppression, they labour under many difficulties, to shake off the noxious burthen.

A virus in the animal occonomy acts as a stimulus; when therefore the venereal miasm, by whatever cause, is introduced into the blood, it makes not only a diffurbance in the fluids themselves, but, as the infected mass passes along, it irritates the internal nervous spiral sensitive coats of the arteries, by which they are provoked to an increase of their diastolic and systolic function; and hence enfues a fever. Whilft the irritation lasts the fever continues; either from an increase of the virus in the circulating mass, or from having attacked fome nervous part, whereby the stimulating fensation is communicatively continued: And this makes the diffinction between an effential and symptomatical fever.

When the internal organs of circulation are fuccessful in their attempt, and turn the virus either entirely out of doors, by perspiration, urine, or stool, or to the external frontiers, where it is taken up by the weaker, and less powerfully refifting lymphatics of the skin, and thence farther banished from the animal state, the crisis is as fortunate as might be wished for. This is always the first effort of nature, in every difeafe whatever, but the ill fuccess of this facred attempt,

There are difeases ascribed peculiar to the fluids, and others peculiar to the folids; thefe distinctions are proper; but not more arbitrarily fo, than that either folids or fluids may claim only the greatest share; for in fact, folids and fluids are so intimately united, that the whole is but one mass, and differs only in various degrees of folidity, or fluidity, whichever we shall please to call it. We boaft with pomp of our fuperiority of knowledge to the ancients in the circulation of the blood; which great discovery however, on a ferious confideration, we must be modest enough to own, is barely at the dawn. Our microscopes are assonishing great inventions; but was it possible to see a drop of blood, as it is in its circulation, magnified to the bulk of the whole globe, perhaps we should then stand as much in need of a microscope, as we may feem to do now; and what figures the animalculifts would cut, I know not. However, fortunately by the help of reason, and those valuable inventions of inftruments, we have abolished many fantastic notions of the ancients. But these vacancies which we have made, feems to fill up pretty fast with other abfurdities, equally ridiculous; and it is but just, that our posterity, should have something to alter and censure as well as we.

Since the folids and fluids are in one continuation, and so intimately the support of each other,

other, it follows to a demonstration, that they must ever be partakers of each other's malady: Yet one of them must carry the predominancy: And in this fense I would always be understood. When the blood is affected, the indisposition must of course be universal; the wandering virus therefore which has gained its admission in the fanguineous mass, must make the patient liable to as many different difeases, as various parts the blood passes through; and the patient must, if left to nature, depend principally on the vigour and ability of each viscus, or part of the commonwealth, which the noxious virus paffes through, to oppose and propel its attack: But to this, we must not forget to add, that fince the blood contains the nutriments of all the different kinds of folid fubflances, it may be varioufly affected by the attack, fo that one part of the mass, may be contaminated more than another; and therefore, make fuch corresponding parts of the folids most liable to have their natural course converted from the order of health: This last, together with the first mentioned cause, must principally depend on the nature of the conflitution of the patient. Add to all this, that the venereal virus is peculiarly fubtil, and penetrating, it is not eafily thaken off from any part, and will unawares infinuate itself into every part of the animal frame.

The first symptoms of a poxed blood, is an univerfal weariness and lassitude; cold shiverings, fucceeded with an inward heat; and though in general not a very high fever, yet a difagreeable, piercing, burning, intermittent heat, and an acrimonious chapping in the palms of the hands, and foles of the feet: This fly lurking fever, with intermittent chills, and univerfal laffitude, exchange with anomalous paroxysms. A dull head-ach, pain in the limbs, and in the bowels, intermittently, pay also their attendance; particularly as the patient is getting warm in the bed.

Whilst these complaints are wandering and shifting from one part to another, it acts much like a slight intermitting sever proceeding from catching cold; or from a surfeit; in general with little acuteness, but with more wandering indispositions; and the mind labouring under a

wretched dejection.

If these symptoms are attended with ulcerations, excrescences, or tumours, either about the genital parts or elsewhere, there can be no room lest to doubt the suspected patient labouring under the approach of the pox; but what I chiefly here hint at, is the pocky internal symptoms, without external or local appearances; and can only be judged to be the effects of a wandering virus, from preceding impure coition, or ill managed local diseases, from the first infection.

These universal wanderings however, don't in general continue long; but some particular places become gradually more permanently the suffering parts; when the wandering pains will decrease in proportion.

If the lymphatics attack the virus, a venereal itch, and all the variety of the cutaneous diseases, before described, will ensue; which, if not cured,

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will spread its infection back again, till the body is reduced to a most horrid and putrified carrion.

A venereal itch will sometimes in a moderate degree, pester the patient for a long time; appear with great itching and surfurations, then disappear, and occasion nocturnal pains. In this itch (under the name of the scurvy) many have laboured, till suddenly, they have been plunged into the confirmed lues, and seen, but too late, their mistake.

If the virus circulates in the glands, it occafions, at times, many tumefactions, and disperses again, before it attacks them in good earnest; and then what havock it makes, or is subject to make, we have already considered in its proper place: From hence the patient will sometimes, a good while before hand, have off and on, a fore throat, the palate tumefied, the neck all knotty and stiff, &c. and all again on a sudden disappear; till at length the virus becomes fixed and breaks out in some part or other, or perhaps becomes universal.

But when the tendons, ligaments and muscles become the habitations of the virus, the patient is then under a severe discipline; for from hence proceed the cramp, spasmodic and other rheumatic pains.

A cramp very frequently attends venereal pains; and which makes no small addition to the accompanying torments. A venereal opistotonos, or emprostotonos, has at times given trouble enough; particularly till the origin of that trouble-fome disorder was properly examined into and found venereal, when mercurials, the properest remedy

proved

proved fuccessful. When the membranes of the muscles are affected with the venereal virus, an obstinate rheumatism ensues; which is either particular, or fometimes becomes universal, and fometimes wandering from one part to the other. Whilst the virus is wandering, it is undetermined, and no part is fafe from the attack. Hence fuch patients, will, all on a fudden, have flying pains, from the head, to the arms or legs, and from thence perhaps to the bowels, stomach, and other vifcera: In which rambling attack, an acute head-ach, a fudden apoplexy, and even an epilepfy, is liable to cut off the patient, with very little or no notice.

The rheumatic pains of venereal patients, generally are feverest when they are become warm in bed; particularly, if they are accompanied with pains in the bones. When the feat is in the mufcular membranes, there will be a stiffness, inactivity, and incapacity of motion; fometimes the parts will swell and be hard, sometimes quite senseless, and at other times again become inflamed and painful. But the pain and trouble is still greater when it is arthritic and in the joints; the ligaments become tumefied, fore, and inflamed; add to this, the fynovia degenerating into a bony, cretaceous, or fabulous matter; whereby the joints not only become stiff and gritty, but attended with a continual torture, as if the joint was trepanned, grinding, gnawing, and many other fupposed tortures.

A sciatica, is also very frequently the effects of the venereal virus; as also the lumbago: These two are frequently fellow tormentors. Sometimes

they appear in their fymptoms and proceedings, as gouty as the rankeit gout itself; either with anomalous, or elfe with more regular paroxyfins; at other times again in one continuation. We have before confidered the difeases of the bones; and therefore here only take notice of the preceding fymptoms; namely, the nocturnal venereal pains in the bones. These are sometimes fixed in some particular parts, or become more univerfal. If the bones, which ach, have exoftofis, nodes, or gummata, coming on, the thing is plain enough; but fuch nodes or tumefactions, are liable also to come within the bones, or the inner furface of them; though not fo general, as on the external parts: Hence a heavy punging and throbbing head-ach, particularly with a gnawing in the bone, and likewife in other neighbouring parts, which always increase in the night when the patient is warm in bed; and occasion a disagreeable restless effect on the patient; till at length all these evils increase to greater and deplorable heights, if not timely prevented.

When the wandering virus, either is repelled from the tegumental, muscular, or other external part; or meets with the least opposition in the viscera, it is apt to attack those nobler parts, and

proves very noxious.

The stomach has a wonderful communication with the whole animal fabric; even so, as in delicate constitutions, to partake of the slightest indispositions; this is particularly conspicuous in the semale sex: If therefore the venereal virus should attack this great organ, as sometimes is the case, many very bad consequences, we must S 2 expect

expect to enfue; if it is not drove foon away from thence: A painful nausea, attended with an apepfy, bilious eructations, vomiting, and other diforders, followed by a general and malignant dyfpepfy; together with a loathfome atrophy, or else a bulimous greediness; till at length a marasmus, general atrophy, and a heesic ends the scene with death. Nay, sometimes it hurries on with more rapidity; an inflammation, and a vomica will form, which will break, ulcerate, and in the most deplorable manner make quick dispatch.

The intestines however are more frequently fubject to be the feat of the virus; and thefe parts are very apt to be infected on many accounts; for fince they are the excretory channel, into which the cyffic, pancreatic, and various other ducts empty themselves, whose fountain heads may have received part of the venereal poison; add to this, the many other diforders they are fubject too: But besides, injudicious purgatives, are sufficiently capable to bring on a deflux or a venereal dyfentery or diarrhœa, and many other evil and

fatal confequences.

This is a particular circumstance under this head, well worth fome ferious confideration; fince it occurs very frequently in the latent pox. And I have reason to believe, that this is too generally produced from ill treatment. I have mentioned often as a fixed maxim, supported by experience, that wherever the virus meets with the least refiftance, there it is apt to attack, and fix its habitation; now, from the influx of a contaminated bile, pancreatic juice, unwholesome and ill fermented

mented aliments, &c. an acrimony may be generated, and infect the intestines; and thus occafion a bilious cholic, iliac paffion, inflammation, diarrhœa, dyfentery, or other diforders of the bowels; whereby they become fore, weak, and fubject to attract any virus, whether venereal or otherwise, wandering in the body. But such a deflux is too generally occasioned by drastic purges, or the profuse administering of mercury, especially in falivation; add to this, the pernicious adulteration, and even intended admixtures: By fuch injudicious and mal-practices, a most obstinate venereal diarrhoea, or (if I may so express myself) an intestinal clap has been too often brought on, and attended with a train of shocking confequences.

Amongst the various noxious preparations given to venereal patients, none are more fo, than any of the various preparations of lead; which for internal uses, is point blank, a flow but fure poifon; which shall be further considered in another

place.

In the venereal diarrhoea, the patient is feized with a pungent, inflammatory, and cholicky griping, fucceeded with acrimonious, cutting, and fætid stools, attended with a painful tenefmus, and spasm; this flux ebbs and flows irregularly, but with fmall intermissions, till either it hurries the patient away with the greatest agony, or at length it becomes merely habitual; and by flow degrees, attended with a univerfal and malignant dyfentery, atrophy, hectic, and death.

If the intestines fuffer from faturnine preparations, a most melancholy, and heavy contracting pain

pain in the bowels steals upon the patient; attended with an irksome contraction, suppression of nutrition, and function of the intestines; till at length the reduced half animated skeleton finks into the earth.

The lungs partake not feldom of the venereal poison; frequently such patients become asshmatical, phthisical, and are hurried to their grave by a galloping consumption: And this particularly, immediately after they have been pronounced

cured by falivation.

The heart itself is not exempt from the attack of the virus; a polypus, palpitation, spasmodic contraction, and sudden death, must be and are frequently the consequence. A pleurisy, a peripneumony, or other diseases peculiar to the various internal parts, are liable to ensue from the attack of the wandering venereal acrimony in such parts.

The most destructive attack however, the venereal virus is capable to essect, is in the brain. This part is universally allowed to be the first organ and the sensorium of animation in the existence. As it is the most incomprehensible, most complicate, and most delicate organ in the animal economy, so consequently it must be subject to the most alarming and fatal diseases, when the virus has

gained admittance to act upon it.

The brain is conspicuously divided into two material parts; the cerebrum and cerebellum. The cerebrum is considerably the greatest part, and takes up the fore and upper cavity of the skull; The cerebellum lays immediately underneath, and behind in the os occipitis. The cerebrum seems

feems to be principally the preparatory part; but the cerebellum is the fenforium, and prinum mobile of life itself. Certain it is, that on a prefure of the cerebrum, a stupor of the senses; but at the least pressure of the cerebellum, immediate death. Notwithstanding this, both parts are subject to many disorders, in their nature different from those effects, though for the most part they

foon end fatally.

The cerebellum is the fountain head of the medulla oblongata, and the whole nervous fabric; whose branches and ramifications penetrate into every part of the human body. The whole is encompassed with two tendinous teguments, the dura and pia mater; these membranes continue their covering of the whole oblongata fpinal marrow, and all the branchingout nerves, even to the most minute ramificating extremities, till they are intirely loft. Ten pair of nerves fpring out from the medulla oblongata and cerebellum, fome of those make out the external fenses; thirty pair from the spinalis, which fpread themselves in every part of the animal frame. The cerebrum is divided, longitudinally, in two hæmispheres; which division is carried on throughout the whole stem of the nerves, even to the extremity of the spinal marrow, so as to prevent the communication of fenfation of any of the branches from either fide to the other; yet notwithflanding this, it is fo contrived, as to have an immediate correspondence of sensation, The cerebrum and cerebellum confift and are divided into a great number of other parts, cavities, glands, ventricles, &c. and very plentifully S 4 interinterspersed and interwoven with large arteries,

veins, and lymphatic ducts.

This is not the place, or indeed the fubject, to examine minutely into this wonderful and mysterious organ; fince the variety of diseases occasioned from a wandering venereal virus is here barely intended aphoristocally to be treated of; however there is no organ belonging to the animal, where we are more at a loss to trace the manifold intentions of facred nature, than in this; the ventricles, the pons varoli, corpus pyramidale, corpus olivaria, &c. ferve more in the examination of them to augment our wonder and admiration, than to discover their various uses in the animal œconomy. We may suppose the glandula pinealis, or the fourth ventricle, or any other part to be the feat of the foul, or the fanctum fanctorium of the intellects; but what must we fay, when we find fuch parts, together with many others contaminated, and even confumed by ulceration, and yet the patient to have retained his fenses in his last moments! We may ascribe madness, or any other defect of understanding, to some diforder in this or that part of the brain, and yet we find fometimes the brain of a madman and that of an ideot, as found and perfect (according to our examination) as that of the most fagacious. The truth of the matter is, how deep foever we may appear to argue on that fcore, our conclusions will amount to little more than idle conjecture; yet facts may lead to trace causes, supported by experience; and those may lead to similar ones, where we cannot be mistaken in pointing out inevitable confequences.

We know from experience, that the venereal virus has caufed a cephalalgia, megrim, fcotomia, vertigo, catalepfy, apoplexy, phrenzy, or even a raving madness, &c. therefore it may do fo again. Now from the disposition of the various parts of the brain, we may pretty near give a guess, how those maladies in general happen. If the virus attacks the dura mater, pia mater, or any part of the cerebrum, an inflammation must be apt to ensue; by which the various passing and repassing blood vessels must be distended, and compress the various parts of the brain, by which the vital functions of the brain must necessarily be impaired; add to this, the noxious stimulation of the virus; and this cannot fail of producing various complaints; a comea, fomnolentum, fcotomia, vertigo, catalepfy, apoplexy, cephalalgia, hydrocephalus, hemicrania, phrenzy, or mania, &c. according to the constitution of the patient, habit of body, the different parts, and manner of the attack. A fimple preffure of the brain occasions fymptoms attended with a stupor; but if that preflure is accompanied with irritations from any acrimony, the fymptoms must of course be more ardent, and as it affects the nerves, confequently the pain must be more or less violent; produce fpasmodic contractions, either in part or of the whole frame; or paralytic lamenesses, either of particular parts, on one fide, or univerfal.

Nothing is more common with venereal patients than head-achs; fometimes only symptomatical; sometimes periodical; sometimes fixed in one particular spot, with a piercing throbbing pain;

others

others again, will have a dull gnawing continual pain, attended with a flupor and coma; and fome again have been attacked with a phrenzy or mania; either periodically or remained fo for their miserable lives. Anatomical examinations have often furprifed us, on finding what havock the venereal virus has been capable of in the brain; farcocele and fchirrhous tumefactions, nay, even large ulcerations have been found; and fometimes calculous, and even offified fubstances have appeared in the very cerebellum.

The spinal marrow is properly a part of the brain, or rather, an elongation thereof: As this is the main trunk of the nerves, which are very liable to fuffer much from the venereal virus, it follows, that that part is also liable to the virulent attack, which is also sufficiently evident, from the hemiplegia, paraplegia, or universal palfies, venereal patients fometimes fall into; as well as other dreadful difeases from the same canfe.

Thefe, and many more difeafes, the venereal virus is capable to give birth to; and in common to both fexes. But women being naturally fubject to many diseases peculiar to their sex, they must consequently labour, in general, under more maladies, when their habit is become tainted with a wandering venereal virus.

In men it feems rather improbable that a wandering virus should occasion a virulent gonorrhœa de novo, independent of impure coition; but in women fuch a case is very likely to come to pass; and I am perfuaded, that this must very often happen. At the time of their menstrual discharge,

there

of generation; and that the wandering virus, may be attracted to the pudendal parts, in the time of fuch congestion, and discharge of humours, is more than probable; add to this, a natural acrimony in the habit, which alone can subject women to such fluors, which differ very little from

a virulent gonorrhœa.

The organs of generation in women are so subject to attract the venereal poison, that a woman of a tainted habit is seldom or never free from complaints in the internal genital parts, notwithstanding all external appearances to the contrary. The uterus, the ovaria, the fallopian tubes, will sometimes be strongly affected; hence they will complain of heavy burdensome pains in those parts; from which they become subject to violent attacks of the hysterics, suror uterinus, mola, ulcerations, or even the cancer in the uterus, and its various parts.

Women may have the dry or latent pox, for a long time in their habit, as long as their menfigual discharges continue regular; but the moment this salutary course is disordered in the unimpregnated women, the whole animal frame
falls into consusion; and besides the wandering
or latent venereal virus, lurking in the habit,
other malignant humours are from the suppressed menses generated; which all joining together, hurry the whole body headlong, into

the most deplorable destruction.

When the ovaria, tubæ, the uterus, and their principal appendages, requisite to the act of gestation, are disordered, tumesied or ulcerated, barren-

barrenness must of course ensue; but a woman may labour under a great variety of pocky maladies, and yet conceive; and what is still more aftonishing, even sometimes, against all expectation, she may bring forth a healthy child. How-

ever, this is very rare indeed.

When a woman has conceived, a new œconomy, or animal state commences; a wonderful congestion of fluids from every part of the whole animal fabric, is attracted, towards the forming of the fœtus; and confequently it becomes liable to partake of the intermingled acrimony: In the flate of its action, and from its fituation, it is firengthened, warmed, and supported by the furrounding viscera, as much as any other viscus in the body; and perhaps may from fuch support, fometimes, though rarely, have strength enough to repel the approaching poison, wandering in the habit; but generally the virus becomes too powerful, and not only ingrafts itself in the very stamina of the new forming fœtus, but even destroys it before its natural prescribed period of entering into the world. Hence, fuch unfortunate women, who labour under a latent or confirmed pox, are frequently liable to heavy and severe abortions; bringing forth withered, pocky, and fometimes a half putrified fœtus. And when they even go their full time, 'tis then but too frequently, they bring forth an innocent fufferer of its parents guilt, in whose stamina are deeply ingrasted misery and disease.

Here then I will conclude this aphoristical ætiology of the various attacks and mischiefs the circulated venereal virus is capable of; we will

therefore proceed to a conclusion, and survey the deplorable and horrible dissolution of the fatal conflagration of the confirmed and univerfal pox.

Of the CONFIRMED LUES VENEREA; Or, the VENEREAL POX.

A FTER the preceeding examination into the most principal of the various methods, and the various parts of the animal œconomy which the venereal virus is liable to attack, I shall beg leave to conclude this ætiological subject, with a concise repetition of the many different steps, and the gradual progress of this dire disease.

It must be evident to every judicious and unprejudiced practitioner, that almost every malady, which the venereal virus is capable to effect, when it is once admitted to circulate in the body, may also be produced from a variety of other malignant humours; and it is also as confpicuously confirmed by daily experience, that the venereal virus will appear under as many different difeases, as may be enumerated in the whole body of pathology: At least there is fo true a resemblance of the one kind with the other, that unless we have incontestable proofs of their first origin, we must, if we are candid, own ourselves incapable to judge properly whether they are venereal or not. If this be fo, what shall we do to form a true diagnostic diftinction? True; I own the difficulty of the task; but at the same time declare, such diagnoffics useless, whenever they become difficult to form. If

If we trace the study of physic from its remotest antiquity, we shall find, that when that noble science was most mysterious, laborious, intricate, and perplexed, it then abounded also, with the greatest absurdities: And as these darkening clouds clear away, simplicity and truth will gradually appear clearer to the eyes of rea-

fon and understanding.

A true diagnostic of a disease consists in knowing its nature and effect, and the habit it works upon; this is materially necessary for the cure; in regard to its origin, that may be various, and materially different, and yet the effect the same: And the too nice distinction in this particular, has too often ferved as a misleading ignis fatuus, instead of throwing any light on the rationale of the cure. What reception this doctrine will meet with, among pedantic critics, I know not; and that I care not, is plain from my having throughout the whole, without fear or hesitation, written the sentiments of my mind. But I must beg, not to be understood to reject all distinctions and enquiries, into the origin of the disease, that a patient may labour under; far from it; yet, the nature of the distemper, and the habit of the patient, should always claim the first attention.

This premised, I shall now select the most material pathognomonic signs, from which we may be most enabled to form a rational diagnostic, whether a disease that a patient labours under, may be pronounced venereal or not.

In the first place, a candid confession of the patient, may best be relied on, affirmative or negative.

negative, to the following questions: Whether the patient has been guilty of impure coition; or subject to any other impure contact with infected persons? Whether the patient at present labours, or lately has laboured, under any local difeases of the venereal kind; as the virulent gonorrhœa, bubo, shankers, hernia humoralis, or venereal excrescences; whether they yet remain. or have fuddenly disappeared; and whether after fuch local diforders, wandering pains were brought on, or other fymptoms enfued? And laftly, whether the patient has had former venereal injuries; or whether naturally subject to acrimonious, gouty, or rheumatic pains, fluor albus, ftone, piles, &c. ? What diet, regimen, connections, accidents, &c.? When these questions are candidly answered, all doubts may easily be removed. In the next place, there are indeed univocal figns, which require no questions to a farther explanation; as an old virulent clap; fiftulous bubo; scirrhous testicle, &c. particularly with that class of people who are guilty, and have richly deserved it. On the whole, after all our enquiry and figns, whether they are univerfal, equivocal, or commemorative; or whether the patient is innocent or not, the effect may be the fame in like diseases; whatever appears like the pox, must be treated as such in the cure; if we have a right to expect fuccess, whether pox or no pox. But that fuch a cure does not confift in giving mercury by fpoonfuls, or heaving the patient into a profuse falivation, and that such rash methods, in most cases, are more pernicious

than the disease itself, I hope to prove in another

place.

Let us now trace the shocking malady from its commencement, till the end of its fatal period, when it has gained its full power of destroying

the body.

We must however previously observe, that the various manner of its operation, differs not only according to the period in life, but according to the difference of constitution, habit of body, and disorders the patient is most subject to contract. Thus, for instance, a child whose juices are in general very plenty, and whose folids are fost and flexible, will, in that disease, be subject to be hurried into an universal pustulous corruption and ulceration; the bones become tumefied and ofteofarcous. A middle aged patient, or one in the vigour of life, is more subject to exostofes, nodes, phymata, ganglions; all which tumefactions will foon break into phagedænic ulcerations: Whilft patients in more advanced age, will be more inclined and fubject to a dry fcurfy leprofy, elephantiasis; universal caries, spina ventofa, and a mouldering brittleness of the bones, &c. But all these circumstances are variously altered, by temparaments, climates, habits, regimen, and an addition of other infirmities and diseases: Thus a child, who labours under this difease, attended with an inward hectic fever, will be affected like those of a far advanced age; whilst elderly patients of pituitous habits, have their condition altered accordingly. We must also recollect, that such parts as first received the infection, are apt to fuffer most; and where there has

has been formerly an infirmity, fuch parts the virus is apt to attack the feverest also. However, these rules are not without exceptions, as I have before demonstrated.

The first symptom which a patient feels of the universal infection, is a flight irregular intermitting fever; attended at first with a slight pain in the head, arms, legs, knees and ankles; together with a heavy irksome lassitude and depressed spirits. These symptoms come and go irregularly; but gradually the pain increases, and particularly at night when warm in bed: The nights become more and more reftless, and are spent, with tumbling and toffing to and fro, till at length, a little fleep in the morning, refreshes the worried patient, and strengthens him to support the next night's torment.

The head-ach gradually grows heavier; fometimes with a dull heavy pain, fometimes more acute: Some have their pain fixed in one spot, called the clavus, feeming as if a nail was drove into the head, or being bored either on one part of the skull or the other. Gradually little bumps are felt on the skull, arms and shins; which, totogether with the joints, becoming painful, take it by turns to torment the patient continually.

A fourf and furfuration in the mean time comes gradually on; the eyes are lipped and fore; an inflammatory tettery furfuratious eruption begins on the eye-brows and forehead, works itself all round the temples, the hairy scalp, down the neck, and thus crowns the patient with the venereal laurel. The tettery eruption creeps gradually farther about the face, and into the

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ears, infects the ear-wax, corrodes the auditory organs, fills up the cavity with floughy, scabby and stinking matter; from hence partly ensues a tinkling, hissing and ringing in the ears, together with a heavy dull pain in the temples, and a defect of hearing. The tettery eruptions encrease; the lips become fore and scurfy; the creeks of the mouth and nostrils crack; these rhagades fester, become hard and callous, and

iffue a sharp corroding ichor.

The whole skin becomes rough, covered with fmall yellow branny scales, attended by turns with a sharp burning itching; the eyes look dull and heavy, red and staring; the face becomes bloated, fcaly and livid; interspersed with efflorescent spots and tubercles. In the mean time the almonds fwell, become hard, and throb with a dull pain; the neck becomes hard, fliff, and all between the mastoideus, coraco-hyoideus, and other muscles, phymata are variously interfperfed of divers magnitudes. The mouth begins to grow fore; the cheeks within become strewed with fiery phlyctanæ; the tongue fwells, becomes covered with a hard rough flimy flough and crust; the palate and throat are swelled, and fore; the roof of the mouth is befet with hard tubercles and nodes; the nofe swells; the nostrils are widened, and stuffed up with scab flough and offenfive ichor.

The scurf in the hairy scalp grows crusty, the hair loses its natural colour, swells thicker than ordinary, turns white, and gradually falls off. The wrists, hands, and singers, swell; the nails grow large, thick, rough and yellow, fester, and

drop

drop off. The phymata, gummata, grow picked, inflamed, exfudes a viscid ichor, which scale and cover them with branny crusts. The bones swell, particularly at the joints, and become rough. The nodes inflame, the joints grow stiff and fore; the voice hoarse; the language unintelligible; the respiration difficult; the lungs oppressed; the appetite depraved; the mouth stiff and half open; the breath loathfome and fœtid; and the mind is loaded with melancholy, wretchedness,

and despair.

This is the true venereal pox, ready to burft out; and in this state it appeared in general, when it made so great a noise in Europe; and of which we lately have had, and perhaps at this time may produce specimens, particularly in fome of our hospitals. We are bleffed in having discovered some of the incomparble virtues of hydrargyral preparations, particularly in this malady; but we shall still be blessed more, when we learn the proper and discretionary use of this facred drug. It is to the virtues of this univerfal medicine (if there be any fuch in nature) that we (even the innocent with the guilty) do not fall so often martyrs to this infernal disease as the antients; fince our high rank of finners are (if not superior) at least, equal to the antients in luxury, lasciviousness and other vices; our lower class, humble imitators of their superiors, . added to flothfulness; and the middling rank partakers of both. And I beg leave to add, that notwithstanding our physical knowledge is in fuch glory, it is yet clogged with abfurdities equal with those of the antients; to which, I humbly

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humbly conceive it is owing, that though this dire malady is feldomer in its former aspect, yet it is often converted into others; though not so horrid to the fight, yet equally as fatal to the patient.

If we feriously examine the pox, the yaws, the leprosy and elephantiasis, we shall find they are different kinds of the same species of malady; and differ only according to the habit, climate,

and manner of contraction.

If this was the affliction of Job, (as undoubtedly it was, if such a martyr existed) and particularly if he was innocently infected, or that perhaps the disease was bred in his own body, either from grief, sudden shock of his misfortunes, and the sudden fall from his prosperity; (if I may be allowed to cite natural causes) he was heartily to be pitied in his calamity; and no wonder that the agony of his mind, together with the weakness of his intellects, added to the pain of his body, should tire his patience, and make him burst out in an exclamation against his existence. But to return to the lues.

If the patient laboured under an inveterate remaining purulent gleet, at the commencement of the symptoms, of the approaching pox, that will by this time be aggravated in a most malignant and phagedænic clap; added to shankers, phimosis or a paraphimosis; together with porri, verrucæ, cristæ, mariscæ, siei, &c. which excrescences will be strewed over and about the tegument of the penis, scrotum, perinæum, groins, and anus in man; and variously within the pudendum of women; which will encrease, become confluent,

and

and reduce the whole pudendal parts into a ftate

of a putrid and phagedænic ulceration.

Buboes will also arise; become hard, scirrhous, cancerous, and have fiftulous communications with phymata, interspersed between the femorine muscles, and communicate the ulceration to all

the neighbouring parts.

The patient now intermits anomoufly, with (apparently) a variety of fevers; fometimes he is cold and shivering; then in a piercing heat; now again, a full and heavy pulse, with a palpitating throbbing of the heart; which is exchanged with an irkfome, flinging and colliquative fweat; then again, a feeble tremor, fmall depressed pulse, with a universal weakness, dimness of fight, fcotomia, and fyncope; till ftruggling nature retrieves a little, and roused by the gnawing virus, stimulates the animal fabric to its confused and distressed functions, till the various forementioned irregular paroxyfms, are anomiously repeated.

The crifis is now at hand. A continual gnawing pungent pain is in the whole head; the forehead, the eyes, the bridge of the nofe, the temples, the roof of the mouth, together with a grinding pain in the bony part, and an inflammatory burning ardour in the fofter takes place; add to this, a burning dysentery, stranguary, or ischury, difficulty of speech, swallowing, and respiration. The patient in this deplorable condition experiences all the torments, (added to that which is still greater, a guilty conscience) which human ideas may conceive to be the lot of the damned.

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At length the tumours, nodes, exostoses, phymata, gummata, crack, split, and break open, into malignant, phagedænic, and a confluent universal ulceration. The crusty scab of the skull bursts variously, and flows with fœtid pus and ichor; the nose bursts into an ulceration, the cavities become filled up with excrefcenes; the eyes are clogged up with matter, and fometimes one or both in an open ulceration; the ears run with a most offensive ichor; the mouth is ulcerated, the roof corroded, and opens a wide corrode paffage into the nose; the throat is in an external and internal ulceration; the teeth drop out; and the breath becomes insupportable to the patient, and all about him. The exostoses ulcerate; the bones become carious, brittle, rotten, and exfoliate, with a sharp phagedænic, and an offenfive ichoric matter.

Finally, the animal fabric becomes one continued meer mass of stinking, loathsome, putrid, and pestilential corruption. If the malady proves mortal; the putrid ulceration continues; limb after limb mortises and drops off; till at length the vitals are attacked and corrupted; the putrid mingled pestilential carcase expires; the offensive carrion is hurried into the grave; and nature is relieved from the obnoxious struggle.

PART III.

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A Rational and True Method of Cure

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VENEREAL DISEASE in General.

HAVING thus in the preceding parts examined into the true state of the various destructive degrees of the venereal disease in general, we will now proceed to an examination, and an impartial inquiry into the true method of cure.

It is not enough to know, that such and such medicines, are remedies for such and such diseases; the benefit we must hope from their quality, depends entirely on the knowledge when to apply them, the constitution they work upon, and their quality, strength, and operation in the animal economy: Add to this a suitable regimen and proper diet: For without such preexamination, and judicious indication of cure, the most salutary and effectual medicine, must be liable to prove an additional poison to the disease it was intended to remedy.

On this plan I intend to pursue this medical part; founded on experience, and guided by

principles of candour.

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On Constitutions and Temperaments.

ONE of the greatest considerations concerning the efficacy of medicines, should be the subject they are to operate upon. For the more we reslect on this great maxim, Medicamentum non agit in cadaver: the more we shall find, that the laws of motion, quantity of matter, or the peculiar form of the particles of medicines or atiments, can have the least share towards their operation in the animal economy.

Mathematics and chemistry, may become highly conducive to prepare the understanding, in forming some rational ideas concerning the animal economy; but they must both stand neuter, in the explanations of the various sunctions themselves: Though undoubtedly they contribute their share together with the various other principles of every kind of phænomenon,

and action in the whole chain of nature.

That mankind differ in their constitution and temperament is evident to the meanest capacity; and that they will be affected differently from one and the same cause, must be equally obvious. Since this observation is manifest, even in a perfect state of health, it follows, that it must be an object of the most serious consideration in the state of a disease.

Constitution and temperament, have, for the most part one and the same meaning, having much the same cause for their effects: Yet the constitution in a stricter sense, considers the present state of the body only, whilst temperament implies a natural aptitude and disposition to particular effects; the first becomes more universal,

and the latter more particularous, another atomit

The antients divided temperaments into four kinds, viz. phlegmatic, fanguinic, choleric, and melancholic; and ascribed the origin of fuch temperaments, to a predominant proportion of certain humours in the fubject. The distinctions of the temperaments, and their characteristics must still remain in some degree true; though we have with propriety exploded the antient doctrine, concerning their origin; as also their strict characteristics in this fingular existence in a state of health; for that such temperaments depend as much on the state of the folids, as on the fluids, and are fo variously blended, that every subject shares of them, or is liable to the extreme of all in turn, will appear, on a just enquiry in the animal æconomy. But to come gradually to the point aimed at; let us first examine man in his natural course of health, as defigned by nature from his birth to the grave: When we shall find the various temperaments vary, with the different stages; at the same time we will find, if they remain undisturbed from this natural course, that such temperaments are conducive to health.

In infancy, (the first period) the solids are remarkably lax, and small in proportion to the great great quantity of fluids contained in them; by which the fibres are distributed from coming in closer contact.

In youth, as the acmé of life advances, the body becomes more in due proportion; the fibres are more tense and irritable, and the blood of a richer consistence. Activity, perception, liveliness, passions, and good humour, become gradually stronger, and more and more interesting.

Manhood is the meridian of life and the acmé of growth, vigour, courage, strength, passions and understanding. The solids are tense, inclined to rigidity, together with the former share of sensibility; the sluids begin to change from a richness towards a rankness, or alkalescent acrimony.

But now when old age appears, the folids become more rigid and stiff, and lose gradually their exquisite sensibility. The sluids, not only become less, but also less humid, and the circulation gradually becomes slow and languid.

These are the natural periodical temperaments, and in health must consequently follow: according to the course of the commencement, increase, height, and decline of life. But when there is a peculiar propensity for the increase of one kind of humour, more than another, or rather, a laxity, tenseness, or rigidity of fibres, these periodical temperaments, will incline more or less, proportionally from the periodical stage of life, which the present constitution is in.

A phlegmatic temperament will abound with a viscidity and a plentitude of humours; the fibres will be flaccid, weak, and dilatable, with little fensibility,

fenfibility, irritability, have a fluggish motion, and the circulation languid and flow.

The fanguinic temperament has the laxity of the folids with the former, but with more fenfibility, irritability, and confequently more activity; a redundancy of fluids, and of a rich confiftence.

The choleric is the forementioned, in a greater degree of irritability and fenfibility, added to a tenseness and rigidity of the solids; and hence, the blood lessens, and becomes rich to excess.

The melancholic temperament has the tenfeness and rigidity of the solids stronger than the former, but with less irritability and sensibility; the fluids less in quantity, thicker, and perhaps

sharper.

From hence we see that there is a wide distinction with respect to temperaments and constitutions, which should ever be taken notice of. For whilst stimulants may prove beneficial to a phlegmatic, in order to excite the languid circulation, it would prove mortal to a choleric habit: And hence we fee the reason why purges, especially if drastic, are liable to produce so very different effects in these two habits. Whilst it may be falutary, to four on the animal function, and evacuate superfluous humidity in a phlegmatic habit, it will excite an acute fever, promote redundancy of bile, consequently bring on a bilious cholic, diarrhœa, &c. in the choleric and rigid fibred constitution. And so likewise with the rest; the same medicine will have opposite effects, obnoxious or falutary, according to the temperaments, constitution or habits, they are intended to work upon.

We must likewise consider what great effects the climate, regimen, occupation, emotions of the mind, and custom is capable to produce in those particulars.

When we examine the various climates, we must own that every zone characterizes their inhabitants, and the various nations living in them; not only in peculiar diseases, but likewise in custom and manners.

In regard to regimen and manner of living, it is beyond all doubt, that gluttony and feant allowances or indigence, must produce different effects, as also different temperaments, and different diseases. Our occupation likewise must subject us to many good or evil effects, which either corresponding with the natural aptitude, or acting in opposition thereto, must consequently be of great force in the animal œconomy.

But if we consider the emotions of the mind, we discover a field of the most extensive reflection indeed! Soul and body are so absolutely dependant on each other, that the effect of the one

must be the effect of the other.

Hitherto we have examined the temperaments of mankind in general, but if we confider the feparate fexes, we shall find the general structure of women peculiarly different from men. Whilst men were designed by nature to be strong, robust, and bold; women, on the contrary, are slexible, weak, and timorous; man therefore inclines more from the sanguinic towards the choleric and melancholic temperament; and women from the choleric towards the sanguinic and phlegmatic.

Besides their structure, independant of the organs of generation, they disser from ours in many respects; particularly, in the make of the skeleton; so that it can only be said, their make and dispositions resemble ours; or, as a just compliment to the sex, we rather resemble them. Add to this, there is something very original in women, which ought at all times to claim particular attention; namely, their periodical mensural discharge; as we have considered before.

Thus then I have given the various outlines of the constitutions, temperaments, and habits in the general state of mankind, sufficient to point out the various circumstances, relating to diffe-

rent subjects, under physical operations.

To fum up the whole: It appears, that a pituitous blood, together with a flaccidity of the folids, is fubject to a dull circulation; and is defective in irritability and fensibility of the folids, and confequently also, of a good crasamentum in the blood: This is the state of a phlegmatic. In the sanguinic, there is too great a redundancy of blood, and too much irritability: as also too little tenseness of the sibres. In the choleric too much irritability for the tenseness of the sibres, and too rich a consistence of the blood for the quantity of it. In the melancholic, the blood is too little and too sharp, the solids too rigid, and not a sufficiency of sensibility.

From hence we may form a proper judgment, why fuch medicines as may be deemed proper for one, will be pernicious to another, and vice versa. And this ought to be strictly at-

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tended to, not only in the venereal disease, but every ailment incident to human nature.

CHAP. II.

On Regimen and Diet.

THE next article worth, or highly requisite to enquire into, is the regimen; the most essential means, not only of preserving health, but to restore it when lost.

Order and regularity are the great prefervers of nature; and whatever is obnoxious to that facred law, becomes destructive in the chain of creation. Custom indeed may work miracles, and make what is most obnoxious to become habirually agreeable; but still, the first onset, and the breaking of it, is always attended with pain. Cuftom, though powerful, is limited; and whilft we learn to feed upon poison, we may expire in the experiment. Those who hold with the doctrine, that we should accustom our constitutions to every thing, still neglect the best of customs, namely, that of reflecting. And hence they find, that all their wrong chosen customs, togegether with life, become foon an obnoxious burthen to nature, and their feeble constitution.

Eating and drinking, fleeping and waking, rest and motion, are the necessary external agents for supporting the animal œconomy: each must

be in a due proportion to maintain tranquility and health. Moreover it is requifite they should have their stated periods: And so true is this, that whenever such habitual periods are broken through, we find our frame disordered. These rules nature points out, whilst custom establishes them; and the nearer they are to the dictates of nature, the more they are consistent with a true choice.

Temperance is the fource of health and virtue; without which we cannot attain true happiness. But temperance is not the characteristic of my venereal clients; yet, since I have interested myself in their cause, it is but just to admonish them first of the principal object towards their preservation; and what they stand most in need of.

Before however I begin, it must be observed, that by temperance, I mean not a rigorous abstinence from the enjoyments of life; nor can I see the propriety of condemning a patient because he is sick, to the miseries of want, slavery, wretchedness, and imprisonment: Let a person in a persect state of health be suddenly plunged from a wholesome diet, the enjoyment of air, and society, into a close confined room, there to feed upon contaminated air, deprived of motion the foundation of life, and a total change in diet; and let us see, whether such a fall, is not equally as powerful as gluttony and debauchery, to ruin the best constitution? Common reason dictates it, and experience confirms it.

Temperance is the medium between superfluity and want; the extreme of either, nature abhors, and must be equally pernicious as well in a state of health as that of fickness. My opinion therefore is, that the same rule which is good in the one, will be so in the other, and let nature point out the difference, which ought to be made.

Air is the principal element, requisite to our existence; and what necessity is there to prove, that our health depends almost entirely on its purity? The state of health pants for the enjoyment of it; why should patients then be deprived of it? No, ye sick, under whatever malady ye are afflicted, quast this heavenly sluid in its celestial purity! I am so extravagant in this particular, that I would rather lay in the open air, rain, hail, snow, or sunshine, than in a small, close, dark, and confined bedchamber, otherwise ever so elegant.

Light is also requisite to the growth of animals and plants; a plant will wither and decay, if deprived of light, and the animal economy can

not fubfift long without it.

Fire, in a due proportion, not only becomes absolute food, preserves the humours in their proper liquidity, and the solids in a due proportion of slaccidity and tenseness in the animal œconomy; but is also the greatest generator, circulator, and purifier of the air, of any thing we know.

Hence I would always chuse my bed-chamber (sick or well) to be light, lofty, and somewhat spacious; a free admittance for the circulation of air; but so, as not immediately to affect my bed, or person, in whatever part I might be. An open sire-place, and sire in proportion to the coldness, dampness, and condition of the air; but

but fire always, in time of fickness, in whatever disease, season, or climate. My bed should be placed so, as neither to be in the current of the door with the fire-place, nor subject to the direct rays of light. No warming-pan; no close fire-stove; and I would rather have a sow with a litter of pigs, than a close-stool with confined excrements in my room, to breed a contagion; but if I needs must be compelled to such a nusance, then it should always be kept clean and sweet.

Cleanliness is to the body, what virtue is to the mind; and whilst water could be had, I would wash and bathe, warm or cold, as nature should dictate, as well in the state of sickness as in health. My linen I would shift as often when sick, and if my disease should require it, even oftner, than in my state of health; it should be clean, without starch, well aired by the fire and cooled again; but of nobody's previous wearing, as some have advised; for I have no notion of adding any body's filth to my own.

Sleeping and waking, are the intermittent reft and motion, ordained by nature, to give an agreeable relief and contrast of variety in the animal œconomy; and which seems to be proportioned according to the stages of life, tempera-

ment, feafon, and climate.

As balmy fleep refreshes our body and mind, so motion and activity, the voluntary functions and occupations, give an edge to life; each is therefore requisite to support the tranquility and enjoyment of our being; but each in excess, or deficiency, either disorders, or deprives the human

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mechanism of its order, and proves destructive

both to body and mind.

This should be attended to, both in health and fickness; and let kind nature for ever be the guide. - Exercise your body and mind gently till you are tired, and no longer; fleep till you are refreshed, but no longer; when the bed becomes irksome, get up, if circumstances permit; and when this again becomes painful, and nature calls for rest, follow her dictates, regardless of the time or hour. In the state of health, custom rules; she assumes regulation, and will be obeyed; but when fickness takes the helm, custom must yield, for nature here will not be controuled.

Paffion and emotions of the mind should studioufly be guarded against at all times, particularly in fickness. As mildness of disposition and evenness of temper greatly will contribute towards a recovery, fo on the contrary, discontent, sudden emotions, but above all, anger and an habitual peevishness, will oppose the most falutary means of health; being fufficiently powerful themselves, to ruin the beft constitution. Discontent dwells only in the weak mind, and proceeds from a habit of thinking wrong: For reason and prudence will ever strive to be contented, and look forwards for future bleffings; whilft the fool, regrets only what is past, without drawing lessons for present good. Sudden emotions result also from weakness, which may easily be lessened by a custom, of being indifferent, about unforeseen cafualties, and in endeavouring to preferve a prefence of mind. Our

Our food are either vegetable or animal; we civilized nations however have introduced a third from the mineral kingdom; namely, falt. Vegetables, are fruits, herbs, roots and grain; and animals are of every kind. If we confider plants in general, perhaps they were all defigned for food, for particular animals; for our food however, nature and experience teaches us, that they must be agreeable to the palate, and yield a facharine, glutinous, and oily substance; either in their recent state, or incorporated with any humidity. Those however, which are to the contrary, and have an austere, sharp, bitter, or disagreeable smell or taste, do not feem to be appropriated for human food, unless deprived of such acridity either by nature or art: and if any advantage can be reaped from them, it must be from their stimulating quality, on which account many of that class have been introduced into culinary uses, as condiments.

All vegetable substances, which may be deemed nutritious, contain a sacharine quality, and an oily substance; which, as they become properly blended and modified, have a more or less tendency towards acidity or alkalescency; and as they become more or less proportioned in those qualities, they also become suitable to the texture and nature of the stomach; may be deemed more or less nourishing, agreeable and beneficial. And hence the nutrition they yield, depend not so much on themselves, as their proper quantity and the nature of the stomach they work upon.

In regard to fruits, I must previously make this observation, that the production of each climate, is best adapted to its own inhabitants; and to whatever degree art has arrived, or may arrive, in imitating exotics, it will never be equal to nature in this respect. To judge properly of that most delicious, and most grateful of all fruits, the ananas, it must be cut from the ground, and eat on the spot in the West-Indies, its native soil. I remember, (and perhaps ever shall) with an idea of the most exquisite delight of taste, the first time of such a repast; to which I was led by kind nature, and believe that by this I was saved from the jaws of death; labouring then under a malignant bilious fever.

Fruits, herbs, roots and grain, in proportion as they are facharine and oleous, become more or less nourishing. Their assimilation is principally effected by the vegetable acid they contain, actuated on a principle of fermentation; by which they are converted into animal substance by chylifaction. The nutrition they yield is mild, less acrimonious, but more languid than animal food, and therefore suits best in acute diseases.

Let us now consider animal food; wherein they have the advantages and disadvantages from the vegetable. Whilst vegetables have in their nature an acidity, on which principle their operation of change chiefly depends; likewise their solubility on the various modification of fermentation is rendered more or less nutritious, and thus by stimulation converted into animal substances; the animal food acts from a principle of alkalescency; and its solubility is actuated by changes tending towards putrefaction. On this very account they yield more nourishment, and give more strength and vigour than vegetables:

But for the very same reason too, they are more hable to create acrimony, breed difeases, inflame the blood, and affift to dispose the habit to bile

and putrescency.

Tame cattle are chiefly our choice for food, and particularly the ruminating tribe. Our beef and mutton is perhaps the finest in the world; the ox feeds best in low ground, and on succulent plants, whilst sheep thrive best on high land; both which are most happily blended in this kingdom. Our game is also inferior to none in the world. But amongst the rest of the esculent pecora, the filthy hog is introduced as food for our table; which, indeed, is all that the beaft is good for. Though this animal may fuit many conveniencies, yield great nourishment, and please the palate, yet its flesh is as alkalescent, and as subject to create diseases, as any carnivorous animal whatever: in which class it may justly be reckoned, more than in the graniverous kind.

Meat, as it inclines from a state of rawness to the various preparations in cookery, lofes in proportion its folubility and nutriment: infomuch, that raw meat is easiest digested, and yields most nourishment. But on the other hand again; it requires more exercise, to promote a proper perspirability in the animal system to discharge the superfluous alkalescency, in order to preserve the fabric from its acrimony: Whilst boiled or roasted meat, though less nourishing, and not so easily digested, has less alkalescency, and aptitude to putrescency; and therefore not so in-

flammatory.

Meat, kept some time, is likewise better for digestion than fresh killed: But take care, Epicures, lest you prepare your food to become as pernicious as your own poisonous excrement! In nature there is no stand. From the moment the animal ceases to live, putrefaction takes place; and though fresh meat is longer in the stomach than stale, yet its juice is sweeter; and nature defigned the great guts for particles of putrefaction; but neither the stomach, nor the lacteal veffels. As I would wish to enjoy health, fresh meat shall always be my choice. This is exact to the dictates of nature, to which tainted meat and ftinking fish is equally noxious. Yet according to the climate and feafon, with moderation, and fome constitutions, a staleness may be chosen, but never so far as to become fenfible to the nofe.

Roast meat is preferable, in regard to nutrition, to boiled; because in the first the gravy is more concentrated, whilst the juices are more apt to be extracted in the latter. In both, however, there ought to be a medium observed; and this medium, suited according to the constitution, climate and season.

Young meat is most gelatinous and tender; middle aged, most rich and succulent; and old, more tough and rank. If young meat is more tender, it wants more spirit to digest it; and what the old meat has in toughness, is made up in rankness to make it suitable for digestion. These are the reasons why experience contradicts the supposition, that young meat is easier digested than old and tough; and hence we see clearly

clearly, why veal and lamb will become burdenfome to many stomachs, whilst roast beef and
plumb-pudding, or a boiled leg of mutton and
turnips, the best and properest dishes in the whole
universe, will agree with all mankind in general,
in a state of health; and even exhibit the best
medicine in some diseases. But so much may
yet be said on this head, that the age of the animal which is designed for food, suits best the digestion of those, at the same proportioned period
of life: And this is confirmed by experience.

Having thus briefly given my opinion on the various foods common to our table, I will corcifely confider drink. Pure fresh water is the simplest, and undoubtedly the best; and the greatest promoter of solubility; since it easily enters into the substance of the aliment, intermixes, and has no antiseptic quality; but at the same time, whilst it is void of a stimulus, little only is required to digestion, as a supersluity would be apt to lax the tone of the nutritious organs.

All fermented liquors have their accescent and sacharine quality rarefied, and the subtile essential oil heightened into an alcohol; hence they become not only partakers of an acidity and sweetness, which are intimately and agreeably intermixed within themselves, but acquire a brisk, poignant, stimulating and warming quality to the palate, stomach, and bowels. From which qualities they are highly nourishing, and from the alcohol heating to the system. These are the general effects, more or less, of wine, cyder,

ale, beer, mead, &c. The difference of their quality is principally in their separate and different preparations. I shall not enter here on an enquiry which are the best wines; it would be equally absurd to prescribe the quantity; all are beneficial, used with moderation, but a poison in excess.

A glass of generous wine, nobody in his senses can object to; as thereby the animal faculties are enlivened, and the functions strengthened; in this however, I conditionally agree with the celebrated writer of the Spectator: "The first glass for myself, the second for my friend, the third for good humour, but the fourth for my enemies."

In regard to spirituous liquors, they are down-right pernicious, taken by themselves; and the more so, as they are more or less strong, and in-slammable: Since they may justly be deemed a highly rectified aetherial oil, of the plant from whence they are produced. Hence they become a resinous, powerful antisceptic, insoluble, and inflammatory spirit to the animal system. When however previously diluted, so as to have its oleous stimulating particles thoroughly blended, it is subject to a new assimilation, and will yield nourishment.

It remains now to be confidered, whether cold or hot diet is the wholesomest: In the first place, hot victuals are noxious to the brute creation by nature; a hot bit of meat is as agreeable to the cat as if it was seasoned with mustard; and hogs are, apt to be poisoned by hot victuals, at the first experiment. But custom, by repeated trials,

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will gradually reconcile their stomachs, and even make them fond of it, as well as the human species. For custom will work wonders: A dyer will with impunity put his hand into a boiling kettle; the glass blower, the anchor-smith and founder, feem almost fire-proof to astonishment; and I have feen a man drink fealding water without a wry face. Certain it is, that by warm aliments, whether eating or drinking, we promote digestion, chylifaction, circulation, and what is highly beneficial to the animal occonomy, perspiration. Thus, as a spur to the animal function, it may supply the place of condiment, and have its many great and beneficial advantages. But this does not prove it beneficial always; for to infift on having every thing warm, when the fystem glows with heat in a fever, is exactly adding fuel to fire, and contradicts both reason and nature. It must also be observed, that hot diet greatly relaxes the tone of the whole fystem; and though it may affist towards obesity, and promotes peripirability, yet it opposes robustness and vigour.

Here then I shall conclude, and only beg leave to observe, that, a regimen, in order to preserve health, must be guided by temperance, the voice of nature and the basis of human felicity; and, a regimen required in a state of sickness, must consequently be founded on

the same principle.

Wholefomeness of food consists not so much in the nature of the food itself as the proportion of its quantity, and the subject it works upon, or the stomach that digests it; for it is sufficiently experienced,

experienced, that whatever aliment, whether vegetable or animal, whether raw, roaft, or boiled, &c. if taken according to the inclination of the stomach, or is proportioned to its strength, will produce equally good chyle and nourishment. But there is nothing more obnoxious to the animal economy than superfluity. Gluttony breeds confusion and diseases, and poisons the best constitution. Gluttony, in a state of health, is the overloading the stomach; and to eat against appetite and inclination, in a state of sickness, where is the difference with the former? Are not the consequences the same, added to the first disease? In fact, there is not a more dangerous rock for a patient to split upon.

Therefore let temperance be your guide in health; let temperance be your guide in fickness. Eat and drink what suits your appetite and inclination; but take heed not to pall its relish. Finally, follow the dictates of nature and confcience, in all your pursuits; which ever will point out to you the true road that leads to health and selicity.

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On Medicinal Indications.

In our ætilogical enquiry of the venereal difease, we have seen the destructive branches of this malady spreading themselves into the whole body of pathology; hence it is evident, that in order to perform a radical cure, it requires the aid of all the various indications, and the efficacy of the whole Materia Medica. But when we duly consider such indications, and make an impartial examination into medicines in general, we shall find such egregious absurdities introduced into this noble art, proceeding from the ignorance of the mechanical causes of diseases, that we must blush at our weakness in having been so long mistaken in the real effects of ailments as well as their remedies.

My business here is not to point out all the dangerous errors of physic, that offer to my view in that light, and must stand condemned by reason and experience; yet whilst my subject is of so extensive a nature, I will endeavour to remove such stumbling blocks as obstruct my passage, without reproach to their authors, or fear of the displeasure of such as are guided by prejudice. How ungratefully soever this office may be received by some, yet I am sure of meeting with approbation from others of superior principles; but my greatest

greatest reward is felf-approbation, in acting as

a faithful member of fociety.

When physic was most mysterious and obscure, it was loaded also with most absurdities; and the most ridiculous notions that ever could enter into the brains of a mad-man, were fophistically taught at schools, in order to account for maladies, in a manner mysterious and intricate; for natural causes were too vulgar to be adopted. The planets and heavenly motions were not only brought to their aid; but witches, and even the devil himself sometimes was supposed to have a hand in it. It is natural to suppose that their indications and the virtues ascribed to medicines were equally ridiculous. Peculiar veins were opened for peculiar diforders; and medicines received their commission to march either to the head, the heart, liver, lights, or to some other parts, to do their offices, according to their conjectured qualities. Hence proceeded a fwarm of unmeaning terms, as cephalica, hepatica, antimagica, &c. which ferved only to obscure the road to truth, to puzzle the understanding, and mislead the judgment. How far those unmeaning terms have been abolished, and how many yet remain, I leave writers and readers of the Materica Medica to judge, and determine their propriety.

My indications here are antivenereal; which must confequently be as extensive as the various branches of the venereal disease. But whilst the venereal virus is an introduced acrimony, productive of evils which other acrimony, though differently or defrey it. Fourthly, they are

differently generated, may also occasion; it must be an absurd notion to suppose that antivenereal medicines are confined to the lues only; or that the lues is exempt from receiving benefit from such medicines nominated for other indications; common sense must dictate the contrary, and experience confirms it.

I shall not say more on the various improprieties which have ever been a veil to the beauties of physical truth, but pursue my plan, by which I hope to lay a solid soundation to a safe and lasting cure; not only of this dire malady, but such as are similar in their effects, though materially different as to their causes.

To begin then, I will first examine the principal indications in physic, such as have a real existence, and a true medicinal operation for their foundation: And in describing their proper and improper effects in the animal economy, I shall point out the most effectual methods, and the best medicines endued with such virtues; as are confirmed by experience and authentic observations.

In the first place, we must establish it as a maxim, that diseases and their opposite remedies, act on the solids as well as on the sluids. This I have mentioned before, and cannot see what seasible objection can be made to this proposition, as it is sufficiently proved by experience; which we shall farther illustrate. Secondly, medicines either act as stimulants or sedatives; that is, they either increase the irritability in the system, or else lessen it. Thirdly, medicines either produce acrimony or destroy it. Fourthly, they are either

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either attenuating or inspissating. And lastly,

they either increase or diminish the system.

These are the principles of all the indications of medicine; and which, on a proper examination, we shall find to be the basis of the various operations. Hence we find, that such medicines as are most powerful to produce such effects, must consequently be salutary or injurious to the system, according to their proper or improper application. Let us now proceed to particulars.

Of EMETICS.

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Vomitting is a convulfive evacuation of the contents of the stomach by the mouth; occasioned by a stimulus of its nerves, either from noxious particles contained in the stomach, or from a symptomatical irritability of the nervous communication of other suffering parts; and continues this evacuation as long as such irritation stimulates the nerves in the stomach.

There is perhaps not a more tender organ in the human body, and which has so universal a connection in the animal system as the stomach. It is subject to draw a sympathetic sensation from the remotest part of the body, and vice versa. When the stomach is affected, there is not a part of the whole body, but what becomes interested,

and shares the sensation of its agony.

Medicines afford us many kind of emetics; but of all, the ipecacoanha is the fafest, simplest, and best; which, as a vegetable substance, extends not so far as the second passage; and not

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apt to vellicate the nerves in the stomach beyond the time of the operation. The dose should be regulated according to the constitution from ten to twenty grains *; and I hold the substance in powder prepared in a draught, with fome pure water and balfamic fyrup, or made up in any other form, to be the best vomit of any. The emetic tartar +, and the antimonial wine §, I have an objection to as an emetic, particularly in delicate and femiliare constitutions, as they are apt to infinuate themselves into the nervous coat of the stomach, and continue their emetic quality to too great an excess. Yet they have their uses as emetics in robust and sluggish habits; but as diaphoretics in very small doses, in fevers, they often prove very fuccessful.

But more pertinent to our subject is the turpeth mineral, generally used in venereal cases. This medicine, if applied with great caution and circumspection, and truly prepared, may have its good effects; which is chiefly owing to the forcing the mercury into the mass of blood. But as it has often very suddenly brought on salivation, together with an emaciated stomach, I disapprove of it entirely, particularly as an

^{*} Not long fince it became fashionable to believe, that one grain of ipecacoanha would be as effectual as twenty: this was harrangued on with much eloquence, and taken for granted by those, who consulted the fashion more than judgment; but such philosophy could not subsist long, as having nothing but sophistry for its foundation.

⁺ The dose of emetic tartar is four grains, and should

previously be dissolved in some warm water.

[§] An ounce of the antimonial wine is a dose. It is a neat, but a precarious emetic.

emetic; fince we have more effectual methods than to have recourse to such a poisonous medicine.

A vomit is best taken in the evening; and the operation should be affisted with drinking copious draughts of warm water, after every evacuation: oil or butter, mixed in the water, (as is customary with some) may indeed increase the operation, but from the nature of the thing, it must be hurtful to the stomach itself. But inftead of all the various customary drinks, bare warm water, or sherbert is the best; if there is a redundancy of bile, sherbert is proper; but that should be weak. The draughts should be increafed and decreafed in proportion to the beginning, height, and end of the operation; four, five, or fix evacuations are fufficient; and particular care should be taken to avoid catching cold; for which reason I should (if circumstances do not prevent it) prefer the bed, properly prepared.

After the operation, rest is proper; and, if it is requisite, an analeptic may be given; but no anodyne, unless the greatest necessity requires it. A glass of generous wine, or good rum punch, accompanied with a little pepper-mint water, (the best of all the califacients) may be administered with success. No slops of any kind; watergruel, sago, salop, &c. &c. they serve only to ruin the stomach again. If the appetite craves, a little crust of bread, or dry toast exceeds them all; which will recover the tone, and prepare the stomach for its suture functions. And it should be religiously observed, that the first meals

rather to be sparing and temperate, and propor-

tioned to the strength of the stomach.

To conclude, vomitting is one of the most powerful operations in physic, but ought to be chosen with great judgment and circumspection. In venereal cases it has also its benefit; but is in general very seldom required. When however it is requisite to call in its aid, it shall be mentioned as I proceed, in the following chapters.

Of CATHARTICS.

Purging is a successive evacuation by stool; occasioned by an increased peristaltic motion of the intestines. This stimulus may be produced variously; either from a bad digestion of aliment, or an attraction of morbisic matter in the intestines; but our enquiry is here the effect of medicines.

Purging produced by art is generally divided into three different kinds; the gentle, the moderate, and violent. The antients had a notion that they could purge away every thing obnoxious; they succeeded so well, that the life of the patient frequently went in the last stool; and I am afraid purges are thought too much of yet by the modern practitioners, for the welfare of patients.

That purging drains the humours, is beyond all dispute; but when we consider that such draining is from the whole mass promisouously, we cannot, with just reason, maintain the notion,

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that it should affect particular humours. The doctrine of cleansing the body by purging has a very rotten foundation; it has been the ruin of many patients; and is yet one of the greatest stumbling blocks to physical indications: For, when we consider the intimate combination of the solids with the sluids, and that both share in the attack of a virus or morbific matter, we see at once the impropriety of that scheme; except indeed, that by the irritation of the intestines, the means by which purges act, a revulsion may be brought about, and the grievance thus perchance be carried off. But this is owing more to lucky

chance than good conduct.

If purging could cleanfe the body from acrimony, no time would be fo proper to put it in execution as in the rheumatism and the gout; which however is now from fad experience well known to every practitioner, to be improper. But why is it so, and from what cause? If the acrimony is conveyed by the fluids, why is purging more improper in those cases than in the itch, or other chronical diftempers, where purging is administered with impunity? If the fluids contained and were the conveyers of the virus, or other acrimonies, unexceptionably, (as has been erroneously established as a principle of physic) I apprehend there could be no better means, to recover a patient in every ailment, than bleeding and purging; and Dr. Last's maxime of driving out the enemy at both doors, would undoubtedly be the best. But reason must dictate, and experience proves the contrary. For not only purging by its irritation weakens greatly

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the abdominal viscera in general, but impoverishes the blood, and renders the stamina of the solids which are oppressed with acrimony too feeble to expel the noxious stimulus. Add to this, that instead of draining the sluids, it frequently causes an absorption of the acrimony into the whole mass; and how often do we not see bilious diarrhæas, malignant severs, &c. brought on with purging in common cases; and the pox sometimes produced from a simple clap, by what

is called a good dofe of phyfic?

I would not be understood by this to condemn purges intirely, far from it; in gross and leucophlegmatic habits and chronic diftempers they are of fingular fervice, and frequently very beneficial to women and children, being very powerful as anthelmenticks. But in hot, choleric, and acrimonious habits, I do not know a practice more baneful than purging, except where mercury accompanies it; for mercury may indeed prevent mischief from the purge, and by frequent repetition may do fome good; (that is to fay) the mercury may at length do more good than the purge does harm: and upon that basis stands the reputation of your alterative and cathartic pills, draughts, electuaries, &c.

There are very few cases where I would recommend purges; and these should always be of the gentle kind. Drastic purges may indeed cause a revulsion, but they always border upon inflammation, and even in the coolest habits are

liable to do mischief.

A purge is generally taken in the morning, but this is very immaterial, provided the stomach X 2

is not loaded; for in that case, it first will have its play as an emetic, or perhaps not work at all,

becoming absorbed by the aliment.

Rest is undoubtedly both agreeable and proper after a purge; therefore if the stomach is tolerably empty, in the afternoon, I should prefer that time for this operation as much as for the vomit; as a good night's rest upon it would greatly put nature to rights again. In the operation there should be very little exercise; and there is no drink I would recommend more than bare water; which should be drank moderately after every stool. A crust, or a piece of toasted bread, with a glass of generous wine or punch, will feel as comfortable as it is proper, after the purge has fully operated, when the spirits are flat, and the bowels are weak. Temperance, after a good sweeping of the belly, is absolutely necessary to be religiously observed; and as much as health, or perhaps life, is worth.

In regard to the various stages of the venereal disease, there are but very sew cases where purges are necessary; which I shall point out in their proper places. In the general course however, a slender regimen is attended with less risk, less pain and trouble, and answers the purpose much better; for all the difference of a purge, let the portion be what it will, or as sine as it will, differs from a diarrhæa in this only, that the one is from an accidental, the other from an inten-

tional diffurbance in the belly.

I shall now say something of purgatives of another kind, namely, by the anus; and this is the properest way, and the only way I would have purgatives

purgatives administered, where there is an absolute necessity of emptying the bowels. But at the same time, I should not chuse to be poisoned that way neither. Let a physical man of judgment and candor, in the morning when sober, examine our dispensatorial formula's of clysters. It is needless to point at particulars; the generality of them, however, I should be very both to have

administered to my horse or dog.

When we confider the delicacy of the villous lining of the intestines, and the absorbing lacteals which have almost an immediate conveyance to the blood, we shall immediately be convinced of the necessity of having the most innocent clysters; and experience shews that they are also most effectual in a judicious indication. Boiled milk and water should be the fixed standard of the vehicle; a little Castile soap will always promote the peristaltic motion to an evacuation, nitre will prove a diuretic, diaphoretic, antispasmodic, and antiphlogistic; sugar will be nutritive; and lastly (accept it as a valuable prefent) some few drops of the spirituous solution of sublimate mercury* in the above vehicle, will radically cure the most inveterate exulceration in the intestines, whether proceeding from venereal virulency, inflammatory dysentery, or other malignant acrimony. The quantity of milk and water in the clyfter should be proportioned to the patient; from a pint to a quart, tolerably warm, but not hot; and repeated occasionally.

X 3

^{*} The proportion of the folution is one grain of the sublimate to one ounce of the rectified spirits of wine.

310 Of DIURETICS, DIAPHORETICS,

We will now proceed to other indications; which nature has pointed out to us, as more effectual drains of the acrimony in the fystem; from whence, if we act with care, many benefits refult.

Of DIURETICS, DIAPHORETICS, and ANTISPASMODICS.

Have placed diuretics, diaphoretics, and antifpasimodics under a general title; since their operations have always a friendly connection with each other, when administered in a degree beneficial. I am not ignorant of the exceptions to this rule; nor a stranger neither, to the precariousness of each operation when separate. Stimulating diuretics are inflammatory; sudorifics may melt down the whole animal system into an alkalescent serosity; and antispasimodics may be carried to a degree of palsy. Wherever either operation is required, the affistance of the whole should be partly employed; particularly in the disease we are here treating of.

Temperantia is the most effectual indication; and of all the saline preparations, let them be ever so curious and elaborate, the depurated nitre is the only one that can be depended on. Of all the various antispasmodics, the truly prepared facticious cinnabar is the most powerful. These two are the principal ingredients of the PULVIS ANTISPASMODICUM STHALII, to which (very justly) so many virtues have been ascribed.

But

But, as in all fevers, where there is a spasm in the fibres, there must in consequence be an acrimony in the fystem, from whence an acridness of urine, or obstruction of perspiration is produced; it is requifite therefore to have this acrimony corrected. This is effected by mercury alone; the cinnabar contributes much towards it; but as it is deprived greatly of its activity, by its being intimately combined with fulphur, it acts principally only as a fedative; whence therefore I have, with the greatest success, added a small proportion of calomel, not only in venereal cases, but in all kinds of fevers whatever. This is however diametrically oppofite to the general established principles of physic; but I must beg leave to observe, that my ideas of mercury differ widely from those gentlemen, who never administer it, but to excess; no wonder therefore, they should maintain a bad opinion of it: However, on a little closer examination, we shall find the fault not in the mercury, but in the manner of applying it.

The powder composed of the above ingredients (according to the proportion I shall give hereafter) may be with justice esteemed the superior and most effectual of its kind. By virtue of the nitre it is diuretic and diaphoretic; from the cinnabar it is antispasmodic; and by virtue of the calomel, it corrects acrimony; so that what acrimony remains in the system after the discharge by urine and sweat, is corrected by this

panacea medicamentosis universalis.

Since I have now given one effectual medicine, what need is there to enumerate more? I X 4 shall

312 Of DIURETIES, DIAPHORTIES, &c.

shall therefore mention those diuretics and diaphoretics, which nature dictates; namely, to drink plentifully of that best of all drinks, in fevers, pure water, particularly if nature craves it; and cold too, if agreeable. A copious draught of warm wine-whey or punch is highly recommendable, but the nearer it approaches to weakness, the more effectually it will affift a gentle discharge of the stimulating acrimony.

To conclude, the indication of expelling a virus either by stool, sweat, or urine, is very precarious and uncertain; and the more we force fuch evacuations, the more we are apt to increase the very acrimony we intended to expel. Nature indeed may perform and frequently does it; but art in that respect can do no more than open the passages; fince the virus may be ingrafted in the very stamina of the fibres themselves. But to correct it, or in other words, (though not strictly phyfical) to neutralize the virus, is the greatest perfection we have arrived at; with which, if we act skilfully, we may perform all what is requifite to the cure of most diseases.

Thus far I thought proper to prepare my reader on this subject, in order to avoid a multiplicity of words when I lay down the methods to be observed in the various stages of that dire malady here treated of, requifite to perform a rational

and fuccefsful cure.

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HE utmost wish of a patient who is excruciated with pain, is ease; this becomes absolutely necessary at times, in order to give nature a respite, that it may have a chance to free itself from the obnoxious stimulus it is entangled with.

Opium is one of the most powerful, at the same time the most precarious medicine in the whole Materia Medica.

In the first place, opium should never be had recourse to, but in great extremities of pain.

Secondly, it should be entirely rejected in universal inflammatory fevers, or great exulcerations; since from its relaxing power on the nervous system, it prevents the natural efforts of the various secretions, by which the morbific matter, either by urine or sweat, may be expelled, and thereby aids the increase of the virus contained in the inflamed blood; which, when the nervous system has recovered its natural tone, acts with more violence than before.

Opium however may be administered, in strong spasmodic contractions, proceeding from meer irritability only, an obstinate nausea, cholic, dysentery, ischuria, hysteric, furor-uterinus, or the like; but with the greatest caution and circumspection. In regard to the dose and the preparation, I shall defer this to another time, and here only observe, that opium may be greatly deprived of its narcotic and deleterious quality,

and yet retain its anodyne. On this principle depends the preparation, which I shall give hereafter.

ud of an Of ANTACRIDS.

deceny, if skilighty administered, is the

AM apt to think, that this grand indication has remained hitherto in obscurity; for the established though erroneous principles, of expelling the noxious acrimony by evacuations, have given birth not only to many grievous mistakes, but prejudiced the mind with so many absurd notions, as to obscure the nature of antacrids, and consound them with opposite and destructive effects.

By antacrids I mean fuch medicines as correct the acrimony in general in the animal occonomy, whether proceeding from the venereal virus, or from other virulent humours; and fuch a medicine is mercury. But I am at a loss to express my furprise, at the fo long remaining erroneous notions, concerning the efficacy and operation of this excellent drug. Its effect to falivate is equally powerful in health as in difease; and equally apt to generate the most malignant ulcers in the mouth; and how the absurdity of relieving one evil, with that of bringing on another, should yet remain in vogue, and even be continued by fuch great men as this age can boast of, is actually, on ferious reflection, aftonishing. I shall here fay no more on falivation. I do not know one fingle practice of the antients, in which they erred fo grossly against reason, as the moderns have

have done in this abominable practice; and it will ever remain a stain on physic, to the latest

posterity.

Mercury, if skilfully administered, is the greatest and most universal medicine in nature; as there is not perhaps one ailment incident to human nature, that has an acrimony for its basis, but what may be cured with this most excellent drug, if the malady is at all curable. It is therefore erroneous to confine it to venereal disorders; for how nearly all disorders of acrimony are connected in their effects, I have demonstrated before; and it is manifestly confirmed by experience, that their remedies must be alike.

There is not an acrimony in the animal œconomy but what mercury abforbs, corrects or annihilates. But so powerful is this universal antacrida, that if it overbalances the acrimony it is intended to correct, it becomes obnoxious itself; and hence it follows, that in many cases the smaller the doses can be administered, the more we may hope for success; as thereby it may enter into the ramifications of the vessels, search every minute part in the animal frame, and effect the success we may hope and wish for.

OF EXTERNAL INDICATIONS.

And first of BLEEDING.

THE first under this head worth a serious enquiry, is bleeding. There is nothing more common in severs than the prescribing of this operation,

operation, and I will venture to affirm, that in general, nothing is more improper. By bleeding we may reduce the irritability of the fystem, since we lessen the fystem itself; but it is ridiculous to suppose it capable to produce an evacuation of the malignity itself: Yet, absurd as such a notion must appear to common sense, it has had its established fashion, and been followed to the destruction of many millions of lives. At this time however (fortunately) this operation has lost much of its repute, and it is high time it should; for my own part, I am apt to think that in Europe more have perished by the lancet, than by the calamities of war.

I shall not dwell on the various improprieties of bleeding in severs, and other maladies, or take notice of the sew benefits that it can possibly afford; suffice it to observe, that it must effectually check the salutary efforts of nature, enfeeble its powers, and obstruct perspiration. This is but one of the many evil tendencies of bleeding; but our enquiry chiefly relates to the venereal disease, where, of all others, it cannot be admitted.

All that we can possibly hope from bleeding, is lessening the quantity of sluids, and relaxing the tone of the solids; but at the same time whilst the sanguineous vessels are thus emptying, it naturally follows, that the whole system must suffer from such evacuation, and that the veins must absorb from the lymphatics and every other part. In such an act it cannot fail, if there be any infection, and if ever so externally, but that the whole mass of blood must become infected; and this

this reasonable demonstration is too frequently confirmed by fad experience. I will even maintain, that the very method laid down by some of our phyfical writers on the treatment of the first stage of a virulent and recent gonorrhæa (viz.) to bleed freely and repeatedly in the arm, to administer gentle and cooling purges, and to forbear the use of mercury till the fever is abated, is the most direct way to infect the whole mass of blood: And hence we generally find that those unfortunate patients are headlong plunged into all the consequential calamities of the pox, before a proper cure is attempted. It is afferted that mercury rarifies the blood, and therefore is apt to augment the inflammation; this is absolutely false, unless given to excess.

Experience and reason confirms there is nothing more effectual to alter the whole constitution, and to ruin it for ever, than great hæmorrhages; and that which is the same, excess of bleeding; and that many are thus ruined (that have escaped the grave) is better known than acknowledged. I could say much more on this head, but I think it needless. I shall therefore

referve this till a more proper subject.

Of BLISTERING.

patient has had the good fortune to be excluded from; which I very much wonder at; as there might be as much faid in favour of that kind of punishment, as many others even more

more abfurd, that have been generally inflicted on them.

I shall be short on this head, as it does not seem to come immediately under my present subject; suffice it, that those who have supposed blistering would drain off the bad humours, have been grossly mistaken. All the benefit we may hope from it, is to attract the humours towards the external parts, or to introduce acrimony in the system, whereby the whole fabric receives an additional spur to exert its various functions.

There are cases where blisters have their benefits, and perhaps may bring on a favourable criss; but in the general course of practice, nine times out of ten they are applied improperly; and the remedy too frequently proves worse than the disease.

Of BATHING.

BATHING has ever been esteemed as highly pleasing and conducive to health; for my own part, I hold it the most beneficial of all physical operations. It is not only on account of the cleanliness, but from a quality it must naturally have, of correcting acrimony, becoming antispasmodic, increasing the quantity of humours, and consequently promoting the various secretions: And this answers almost all other medicinal indications. The benefits of bathing are so universal, that there cannot possibly be an ailment incident to human nature but what must receive benefit from this grand operation. This

was well known to the antients, and practifed even to abuse; which is not less the case with the moderns. But unfortunately mankind will ever do so, and abuse their greatest blessings, if they are so prosperous as to be unrestrained in their luxurious pursuits. We cannot, without astonishment, read of the voluptuousness and numbers of public baths in antient Rome; with us the city of Bath is Rome in miniature.

But to come to the subject itself: The effect of bathing must be different according to the degree of heat and cold, and according to the

composition.

Hot baths, like cataplasms, fomentations, or hot diet, have fomething emollient in their nature; and hence, though they at first, partly from their additional heat to the fystem, seem to brace up the folids, and irritate them to an increase of their functions; yet whilst the heat rarifies the fluids, attenuates them, and thereby expands the most minute ramification in the whole fabric, add to this, the real increase of humours, it must of course greatly relax the whole fystem, and render the fibres flaceid: But not only this, the repetition of hot baths is liable to accustom the habit to an over natural heat, and expansion of the whole system, and hence apt to reduce a rigid, fibred constitution into a leucophlegmatic habit, unless the accustomed unnatural heat and stimulus is continued. These are the disadvantages of a hot bath; from which it follows, that it should be used in cases of necesfity only, and with moderation.

Cold baths, on the contrary, must have very different effects; for as the retrigeration reduces the natural heat of the blood, in which it is kept liquid, it must in consequence consolidate the sluids, lessen the bulk, and diminish the slace cidity and circulation of the fibres.

The temperate bath, however, as it is in the fame degree with the natural heat of our body, can have no such effects in regard of heat and cold, either to rarify or consolidate the mass of

blood.

But all these effects are of the least consequence in bathing; it is the humectating qualities which ought to be the principal object; especially in all acrimonious cases; add to this, the washing the external surface from its obnoxiousness, which not only obstructs the pores, but is apt to be introduced into the blood.

Next we will observe, the effect of particular baths and wherein they differ from the universal; suffice it, that warm particular baths will occasion a congestion to the part immersed in the bath; whilst on the contrary, a cold bath will cause a revulsion of humours. To bathe the feet repeatedly in warm water, has long been recommended as a menagogue, from the ascribed power of drawing the humours downwards, to which it may contribute: And that the cold bath, either applied to the feet or hands, will prove diuretic, I have experienced with success, even in desperate cases.

But univerfal baths are preferable to every other; for, whatever particular part of the body is ailing, the rest, from a sympathetic sensation, share

share and partake of the ailment; so that the whole fystem stands frequently in equal need of affiftance with the part affected.

On the whole, there is nothing which is fo conducive to the preservation of health as cleanliness and bathing; and nothing more beneficial

towards the recovery of health when loft.

In regard to composition, I esteem sea-water the best bath of any, and would always recommend it to be moderately cold, particularly in fevers and in cases of inflammation; and the longer the patient is in fuch a bath, fo as not to be chilled, the more benefit he or she will certainly receive. In lieu of fea-water, where fuch cannot be had, I would advise an addition of falt and nitre added to fresh water, previously boiled and cooled again.

Where the skin is scurfy, a good soap-suds, or bran-water should be used first, in order to soften the skin and to open the pores, that the bath may operate more effectually; and this should be frequently repeated; at least once every day

till the patient is relieved.

Of CHIRURGICAL INDICATIONS.

THEN we maturely consider the animal œconomy, it will plainly appear, that phyfic and furgery are fo intimately connected, and dependant on each other, that he who is ignorant of the one must needs be so of both. It is indispensably necessary likewise, that the felf-demonstrative principles of unprejudiced natural philosophy, should lay the foundation, throughout every acquirement in the art of healing; for without fuch uncontrouled liberty of inquiry into the true nature of things, our indications are only guided by blind prejudice, and chance our whole dependance. How far I am just in this, I leave to the consideration of the

judicious.

My examination here relates only to the applications of medicines externally, and the nature of their effects. The first indication of surgery in external inflammations or tumefactions in general, is to discuss and dissolve. Resolvents and discutients have merely been understood in the light of repelling only, it is no wonder therefore that emollients and suppurants are preferred, where the peccant or obstructed matter is in the foundation, as in venereal cases. In this, as well as many other phænomena in the animal functions, true philosophy, and felf-demonstrative experience, have not been enough confulted. We experience, that the various methods of refolving tumours have very different effects; but those which are most falutary are generally the gentleft. I shall not enumerate the various remedies which have been applied to inflammatory parts, and their different fuccess; certain it is, though spirits and camphor, &c. have fometimes proved fuccessful, yet many times they have not only augmented the evil, but removed it to some other part.

To correct and annihilate the acrimony, should be the fole indication of all discutients or refolvents;

folvents; and which is the never-failing effect of

mercury.

From what I have faid, it may eafily be conceived what opinion I have of suppuration. I am surprized that that indication should continue to mislead the judgment of so many men eminent in the practice of surgery as we can now boast of; for, if we examine into the nature of this effect, we must plainly perceive, that it is only an increase of the peccant matter, and of the evil we endeavour to remedy.

I am not more a friend to digestives than the former; for, as suppuration depends principally on promoting and increasing putrefaction, digestion only serves to stimulate to inflammation, and irritate the ulcer to a copious and superfluous

discharge.

In the next place follow detergents: These are indeed admitted, and requifite in ulcerations, but not in the sense of mundifications, as has been generally taken for granted; namely, the cleanfing the wound from foulness by wiping, or washing away the matter only; for whilst the stamina of the ulcer remain disordered or aggrieved, the acrimony will ever flow as from an inexhaustible fountain. From the detergent indication, founded on the principle of correcting the acrimony, we have every good effect to hope. Escharotics have often proved an additional poison to the ulcer they have been applied to; yet perchance their composition has sometimes proved beneficial; but from other causes than has in general been supposed; for example, the lunar caustic, or the phagedænic water; which,

in the former, from the folution of filver, and in the latter from the fublimate mercury has acted as correcting the acrimony; but those who have ascribed their virtue to the caustic effect, and in lieu thereof applied the common caustic, have found themselves greatly disappointed, to the no small aggravation of the disordered part.

And lastly, the indication of healing has abounded with too gross absurdities to be received by our modern surgeons; namely, the renewing the lost substances by what are called sarcotics, agglutinants, and cicatrisants; these indications must appear to the eyes of reason to be the intire works of nature only; so that the filling up an ulcer, to agglutinate and heal it, requires no more when the acrimony is corrected, than keeping it clean from any external injuries; that nature may undisturbedly replenish it with new substance, and heal it up. This is best performed with dry lint in general; but as in all venereal cases, the acrimony is too apt to continue to the last, a mercurial detergent or demulcent is requisite.

On the whole, wherever there is an acrimony in the fystem, either internally or externally, our principal indication should be to correct, or destroy the acrimony; for all our endeavours to expel it, either by forced evacuations, suppuration, or other more violent methods, are too precarious pursuits; and if ever we should happen to succeed, it will be but the work of meer blind chance. Metals in general have more or less such a power, but none more effectually so than mercury. When we however consider the manner of its operation, we shall clearly be con-

vinced.

vinced that the use of the universal antacrid, requires of all medicines the most judgment in the application; of which I shall say more in its

proper place.

Yet from what has been faid, it does not follow that I entirely disapprove of all other medicinal evacuating indications; this is far from being my fentiments; I only mean to point out the too general use that is made of them, where nature must unavoidably suffer injury instead of being relieved.

I have here spoken only in the general; and I shall by and by have a more pertinent opportunity to be particular; as my endeavour through the whole treatise is to be as concise as the sub-

ject will admit.

Here then I shall conclude this chapter; and beg leave to observe, that the hints which I have offered to the confideration of the judicious, are the fimple dictates of reason and experience, without any other motive than that of being ufeful. I am well aware of the many disadvantages the fimple manner of delivering my fentiments lays me under, in an age when pomp and elegance of diction are so much admired. But to be understood, and throw new light on the subject, is the fummit of my ambition.

CHAP. IV.

The Cure of the First Infection.

A guided by reason, and not blind prejudice, S every action of our lives ought to be to it is but just that every man, who has any thing to offer for the good of the community, should display his principles, that they may be freely examined, how far they are confiftent with fimple truth. Without this, no man has a right to pay any regard to his affertion. On the bafis of this fentiment alone, I defire to stand or fall. My motive is utility; and I hope the effects will verify my intention. Without any farther preface, I will conduct the candid reader throughout the rough paths of this dire difeafe, with all the ease and fidelity that unprejudiced reason, and experience to the utmost effort of my abilities, together with an upright heart, may suggest.

But, that the whole course of the cure throughout the various stages, may be carried on in a manner clear to the conception, concise to the memory, and open to the conviction of truth, I shall suppose a previous attentional perusal of the foregoing; as this is only a short extract of those principles brought into form and order; or in other words, a well sounded theory reduced to practice, and authenticated by happy success.

THE CURE OF THE VIRULENT GONORRHOEA.

HE first symptom of a virulent gonorrhæa is an agreeable sensation in the genitals, gradually increasing into an irritating, sharp, disagreeable pain, attended with a pussy ichorish discharge from the penis in men, and vagina in women; this is soon followed by a sharp scalding of urine, a sever, obstruction of perspiration, head-ach, universal lassitude, &c. according to the constitution and age of the person; which are most acute in the first time of the insection; as has been fully described under that title in the second part.

The first indication must be to promote a gentle perspiration; to correct the acrimony in the urine; to lessen the spasmodic constriction in the urinary organs and the nervous system, and to

protect the body from a general infection.

Bleeding might lessen the quantity of the sluids, and from that, cause a flaccidity of the solids for a little while; but as it would unavoidably cause an absorption into the emptied vessels of the virus from the external parts, it should be avoided as highly pernicious. Purging might evacuate the contents of the bowels, and perhaps drain from the whole mass of blood; but as by its stimulus it would increase the spasm in the system, retain the acrimony which ought to be expelled by perspiration and urine, and cause a revulsion of the virus to the innermost parts of the body, it ought also

also to be rejected as pernicious, and a hindrance to the cure.

To answer the above intention, together with correcting the acrimony, use the following powder:

ANTISPASMODIC POWDER.

Pulvis Antispasmodicus.

Recipe nitri purificati uncias duas, cinnabaris antimonii drachmas duas, mercurii dulcis sexies sublimati

scrupulum unum.

Lævigentur simul cinnabaris et mercurius dulcis super marmor cum paulolo aquæ, donec fiant pulvis impalpabilis; bunc more præscripto exiccatum nitro admisce, deinde fiat pulvis in viginti quatuor partes æquales dividendus.

Capiat unani bis de die, sive pro re nata; admiscendo seil, syrupi balsamici cujus libet quantum sufficiat ut siat baustus exiguus; sive utcunque aliter

in vehiculo quovis idoneo.

ammaille.

This powder, by virtue of the nitre, promotes gentle perspiration and urine; by virtue of the cinnabar, it is antispasmodic, and gently relaxes the constriction of the solids; and by virtue of the calomel, corrects the acrimony in the blood.

Besides, the combination of calomel (or any other mercurial preparation) with nitre, has many advantages; being thereby readier to be introduced universally into the whole system, and prevented from going to the salivary glands; whilst nitre at the same time gently promotes perspiration and urine, the only conveyances nature designed to expel the acrimony in the system, without violence. Hence this powder is not

only the most proper in the inflammatory symptoms, here proceeding from a venereal virus, but may with equal success, be used in every other inflammatory disease, where there is the least spasin and acrimony in the system, for reasons before mentioned *.

Our next attention is to the seat of the gonorrhæa itself. This is generally within two inches up the urethra in men; but variously seated in the pudenda in women, and is in fact a commencing ulceration, as before fully explained. As this is the case, it is but just that it should be treated with judgment as such; and an immediate application must doubtless be the most proper; which consequently can be performed only by injection. But as injection has been condemned as injurious by medical writers, it may be requisite here to enquire into the cause why it has been censured.

One error is liable to bring on another; and where the foundation is bad, the whole super-structure must of course fall to the ground. Whilst the absurd notion prevailed that ulcerations should be treated with escharotics, corrosives, &c. &c. injections were accordingly made use of for this purpose, of white vitriol, Roman vitriol, lime-water, &c. which could but by their stimulus vellicate the tender nervous coat of the urethra; consequently aggravate the ulceration, cause in-

flammation,

^{*} To prevent it from griping, (which it will fometimes, in irritable constitutions) two or three drops of the essential oil of peppermint, previously dropped on a lump of sugar, and mixed up with the draughts, will prove very beneficial as a carminative.

flammation, and increase the evil with all the attending symptoms and maladies; and to this injudicious practice many patients have fallen a facrifice. Others again, have supposed that the gonorrhœa should at all times have its seat in the proftatæ (a notion not quite out of fashion yet) and have concluded, that if the clap could but be stopt up at any rate from running, it might foon be carried off by purging, bleeding, vomitting, &c. Full of these absurd notions, they have injected with a variety of compositions; as white troches, allum, and other styptics, added to stimulatory liquors, &c. I leave every man to judge what might be expected from fuch treatment. Sometimes again calomel, fometimes æthiops mineral, fometimes fublimate, and fometimes a mucilage with crude mercury has been added; however, not with an intention to correct the acrimony, but to attenuate the matter, to take away proud flesh, &c. and whilst those ingredients, in their nature pernicious, were predominant in the composition, they destroyed the good effects which the little they contained of proper and useful things might perform. Such and many other injections were invented, but could ferve only, befides their bad effects, to prejudice weak minds against those which might for the future prove really beneficial; ignorantly supposing all injections to be alike: For mankind are too apt to fall into extremes, and to be led away by prejudice, either from mistaken notions, or being duped by cunning to stray from reason, truth, and fimplicity. When however an injection is properly adapted to correct and destroy offeringinette the

the venereal virus, in the small ulcer whence the clap arises, common sense must dictate it to be

an immediate remedy.

What I am here going to offer has, by many years experience, proved successful even to my most sanguine expectations; and I sincerely confess, that the communicating this valuable and experienced method of curing the gonorrhæa with ease and safety, to quench this destructive fire in its first kindling, and to prevent the ruin of many youths of both sexes; nay even of samilies, and the unborn innocents, who often share the punishment of parental guilt, has been one of my principal motives for publishing this treatise. It is not applause I covet, (though pleasing) but the innate satisfaction of contributing to the welfare of my fellow creatures.

ANTACRID INJECTION.

INJECTIO CONTRA ACRIMONIAM.

Recipe mercurii dulcis sexies sublimati genuini quantum libet; lævigetur cum paululo aquæ super marmor donec siat subtilissimus, ita ut prompte suspendatur in aquâ, deinde in vase idoneo, aquâ multâ affusâ circumagitetur; postea reponatur dum aqua limpida siat; aquam effunde, et gradatim mercurius exiccetur. Mercurius dulcis bujus scrupulum unum, misce cum aquæ unciâ unâ et in phialâ servetur.

This is the injection which is to be shaken when made use of; and injected once, twice, or thrice a day, or as occasion requires, immediately after

after the patient has made water. A small matter will suffice, which by help of the præpuce should be kept in as long as possible, and let to go round the corona of the glans before it is let out. If the urethra is very tender, or the glans in-slamed, as is frequently the case for the first time; or in young and fiery subjects, the pipe of the syringe may previously be rubbed with a little mercurial ointment, that it may the easier pass.

By this injection the most malignant clap may in a very short time be radically cured; the carnofities removed, the acrimony totally destroyed, and the ulcers perfectly healed up. It is equally applicable to all the ftrumatic fiftulas, exclusive from no part in the whole animal fabric. It affuages the most gangrenous inflammation, by correcting the acrimony, and relaxing the spasimodic constriction of the folids. It affuages the most putrid foetor and phagedænic acrimony, by its truly antiseptic and antacrid quality; from the same virtue, it changes the corrofive ichor into a mild and well-digested pus; and as it is mild in its nature, and freed from the stimulating faline particles, of the corrofive mercury, it acts gently, and becomes absorbed in the animal acrimony without any perceptible irritation in the fystem. Thus the whole operation is performed with ease and effect.

This injection is not confined to time; the fooner it is applied, the more effectual, the easier the malady is removed, and other evils prevented, whether in man or woman. And whilst it is innocent, and inoffensive to the found

parts, it follows that its application should be made immediately on the first symptoms;—nay, if immediately after impure coition, the infection is effectually destroyed in its first bud. If I am blamed for this openness, I answer in my defence; my task is to endeavour to do good; I cannot prevent abuse. It cannot be a snare for the virtuous; but it may be the means, though unknown to themselves, of preferving the innocent from calamities, which too many have been basely plunged into; (I mean the wives of unfaithful husbands); and as to the vicious, who knows, but perhaps they may reform the sooner for it *; I have charity enough to think they will.

In women, this injection, not only cures the most inveterate purulent gonorrhæa; but it is the most effectual method to remove any acrimonious and disagreeable fluor albus. This is a circumstance hitherto neglected, or rather not properly understood. What the fluor albus in reality is, I have sufficiently examined in its proper place; and from thence it must appear evident, that restaurantia, or analeptica, are insufficient to remove it; for it is the acrimony which is to be corrected; (the weakness has the least share,) and nothing will do that so effectually as the forementioned injection; as for your isinglass, gum arabic, snails,

^{*} The diabolical practice of machinery (besides that it differs but little from detested sodomy itself) is so far from being a preservative, that numbers have been unawares plunged into the most confirmed pox, in the midst of their supposed security.

viper broth, or affes milk, &c. they may perhaps have virtues, because they are somewhat out of the way of common food; but laying aside all nonsense and fantastical whims, a good mess of eels, roast, fried, or boiled; or what is still better, roast beef and plumb pudding, will be full as efficacious, if not more so. Where however there is a feebleness in the system, slaccidity in the sibres, together with pituity in the humours, instead of using either entirely insignificant supposed analeptics, or else on the other extreme, astringents and acrimonious stimulants, I recommend the following.

RESTORATIVE TINCTURE, OF BALSAM.

TINCTURA, five BALSAMUM ANALEPTICUM.

Recipe balsami canadensis uncias tres; gummi guaiaci semuncim; spiritus vinosi rectificati libræ mensuram. Digerantur simul leni calore, sæpius agitando; deinde fæcibus subsidentibus, tincturam limpidam effunde sive percola. Huic adde olei mentbæ piperitidis essentialis drachmas duas (et si purum sit oleum coibunt slatim) Hujus tincturæ cochleare minimum in cyatho vini, aquæ vel baustu secundum artem fæcto cum paululo syrupi balsamici pro lubitu bis, vel ter de die capiendum.

The ingredients bespeak the indication and the virtues that may be expected from it; namely, that by virtue of the Canadian balsam and guaiacum, they are gently diuretic from a restorative stimulus in the whole system; and

by virtue of the effential oil of peppermint a fubtile nervine; not only to the weak stomach. but to the whole nervous system. Hence this tincture is not only adapted to weak female constitutions, but to phlegmatic habits in general. It is therefore perhaps the most efficacious remedy not only to correct the most vitiated appetite and digestion in the first paffages, but to recover the tone of the urinary and genital organs, and of the whole system. And I'll answer for it, it will contribute as much towards propagation, cure the most obstinate feminal gleet in men, as well as the equivalent weaknesses in women, at least as much (if not more) than all the boafted restoratives of modern quackery.

With this gentle, easy, though effectual method, the most malignant virulent gonorrhoea may be removed, and all other evil consequences prevented; (provided, the antispasmodic powder and the antacrid injection are immediately applied) and thereby prevent shankers, priapism, chordee, bubo, swelled testicles, &c. and the whole train of evil consequences. But when these, or any of these, actually appear, they must be got rid of; and necessarily require more aid than

hitherto given.

In the first place, it sometimes happens that the seat of the gonorrhœa is higher up in the urethra, than an injection with a syringe in the common form may possibly reach; for how strong soever the force of injection may be, it will seldom or never reach but very little beyond the pipe of the syringe: But when the seat of the clap

is thus high up in the urethra, it is not natural, from the first infection; at least I never met with it, unless they had been quacked with, and an ulceration brought on in those parts by injudicious treatment. However, when it is actually beyond the reach of common injection, what is to be done? In this case I have made use of a flexible catheter, contrived in fuch a manner as to fix it to the fyringe*, and thus I have administered the injection with the defired fuccess. The flexible catheter for fuch purposes should be as flender, as limber, and as fmooth as poffible. When however, either from neglect or ill treatment, the urethra is filled with carnofities, or callofities, even fo as to obstruct the urine, and that it should be absolutely necessary to have bougies, I fay absolutely, for unless the carnofities are callous, and the paffage choaked up, fo as to make it difficult for the flexible catheter to be introduced, or that a catheter is not to be had, in fuch cases, I here give the method to make bougies, that have greatly the advantage to those commonly made use of.

To make Bougies.

CANDELAS MEDICAS FABRICARE.

Recipe emplastri mercurialis uncias duas; laccæ optimæ pulveratæ drachmæ dimidium terebinthinæ venetæ drachmam unam; mercurii dulcis sexies sublimati et more præscripto præparati drachmas duas; mercurii corrosivi rubri eodem modo præparati scrupulum

^{*} See the fifth plate.

unum; leni igne liquefiat terebinthina, et lacea injectà coeant; proxime emplastrum adde, postremò mercurium dulcem corrosivo mistum. Misceantur omnia probe agitando, ne separatio contingat, et mistura ferrida fot en separatio contingat, et

mistura fervida fiat empyreumate vitato.

Denique assumantur panni lintei tenues decem circiter pollices longi duosque lati in cylindros leviter convoluti. Hos in mistura, (despumata ut bulla tollantur) adbuc calente immerge, ita ut extrabas ab uno latere tantum a liquore tunicatos. Pannis frigefactis, singuli juxta longitudinem in sex partes aquales accurate secentur, quarum unaquaque ad alteram extremitatem pyramidata super marmor politum (et sapone delinitum) digitis primo, deinde ope corporis cujuspiam duri et lavis, sicuti vitri vel spatula, &c. convolvenda in formam idoneam, ita ut superficiem babeat belle complanatam. Experientia opus est tum respectu spissitudinis, tum caloris mistura, ut siant candela concinna laves et ad normam exacta.

These are the best bougies I know of; for besides that they are effectual in correcting the acrimony, in reducing fungosities, and to hear the most inveterate exulceration, they are nevertheless gentle and void of stimulation, and not liable to attack the sound parts. The shell-lac and turpentine are requisite to give the composition a tenacity, and the small quantity of red precipitate loses its escharotic quality entirely, from its being so very finely prepared, and so intimately intermixed with the whole, yet will essectually attack the callosities, if there be any, without attacking the sound parts.

Z

However, in regard to bougies, I have this observation to make, that the most innocent, or the best that possibly can be made, should never be employed unless absolutely necessary; and they should be lest off as soon as the obstacle is removed; as they are liable to leave a weakness behind from the continual dilation they must

needs occasion.

These kind of gonorrhæas are of a very stubborn nature, as we have before confidered; for where they have formed finuofities into various parts, but particularly in the proftate, the deferentia, and vesicule seminales, bougies can do but very little fervice. Here I have however fucceeded to admiration with the injection by the flexible catheter; and relieved patients who have been afflicted with grievous complaints, even for years, though falivated more than once. In this case, and fimilar ones, bleeding or purging may be highly proper, according to the constitution or habit of the patient: Not with the view of evacuating the virus, but to abforb the more of the injection, that the particles of the calomel may penetrate into the fiftulous canals; which it actually will, when a revulfion of humours is caufed either by purging or bleeding, or other methods, and thus do much good; taking care, at the same time, to guard the blood with proper medicines. A purge for that purpose may be as follows:

A' PURGE.

CATHARTICUM.

Recipe pulveris radicis jalapii sisquiscrupulum; (plus aut minus) mercurii dulcis sexies sublimati grana tria, olei anisi sive menthæ piperitidis guttas duas. Fiat secundum artem cum syrupi balsamici quantitate sufficiente, bolus aut baustus, ad libitum.

But where the habit will admit, the following pills are of fingular fervice, in fuch and various other cases; they are also a very convenient medicine to the patient.

CATHARTIC PILLS.

PILULÆ CATHARTICÆ.

Recipe gummi gambogiæ, sacchari purificati, singulorum drachmam unam; mercurii dulcis sexies sublimati scrupulum unum; olei cinnamomi guttas duas. Misce, fiat pulvis subtilis, denique cum paululo aquæ formentur inde pilulæ quadraginta, involvendæ in pulvere cinnabaris factitii puri lægati.

These pills are excellent in themselves; particularly for fluggish constitutions, and where the body is absolutely required to be kept open. They are a fafe and powerful anthelminthic for children, and highly beneficial in the cachexy; they are most excellent scourers to that class of patients, who have no other notion of temperance than what they are forced to by drugs; for these pills

pills will be very active when first admitted into the maw of a glutton, clear the house at both doors of all the evil spirits, and impose health upon the brute, whether he will or not: but particularly in the case we were just now mentioning, and all strumatic evils of the same na-

ture, though otherwise fituated.

The basis of the composition is this; the sugar distributes the cathartic particles of the gamboge, by which means a less quantity does; the calomel is a corrector of acrimony; the oil of cinnamon corrects the griping; and the rolling them in cinnabar, is to protect the stomach from an immediate nausea. I have used them with fingular fervice, particularly in the army and at fea; as well to those who were actually fick as to those who had a fancy, without cause, to be on the lift as fuch. But to go on; when the patient in the above circumstances is emaciated, feverish, or of an acrimonious habit, I would by all means abstain from bleeding, and all violent evacuations; for with a little patience, and proper regimen, the injection and the antispasmodic powder will do as much as any other method that I can possibly recommend with any certainty and fafety.

Sometimes the neck of the bladder, and even the bladder itself, contains the seat of the gonorrhoeal grievance; in which case, I have nothing better to recommend than the injection with the slexible catheter.

In like manner, if the uterus should be ulcerated, occasioned either by the barbarous hands of midwives, or instruments of murder sometimes used used in midwifery, or proceeding from other causes, this injection is the most effectual to repair the injury. But that such injection may be done more effectually, I offer a syringe of a peculiar form, copied after nature; as such a one must appear obvious to common sense, to be superior to the customary trisling inventions of little effect. For since the injection reaches very little farther than the instrument, in the vagina, as well as in the urethra in man; it follows that if the injection must touch the lacunæ, within the rugæ, or come to the os uteri externum, it is requisite the vagina should be somewhat distended; moreover, if an injection in the uterus is needful, it becomes requisite to make the instrument reach

to the os uteri, otherwise it is ineffectual.

Before we leave the fubject relating to the gonorrhæa, and all purulent discharges, I must observe, that the injection should, by all means, be nothing but calomel and water; and I infift upon it, there is not an addition of any thing whatever, but what becomes detrimental, or takes away from its efficacy. And I think it necessary to add, that those who suppose that this injection acts as an aftringent, are very much mistaken. I recommend it from experience, and I am fo confident in what I fay, that whoever should oppose its being introduced into general practice as here directed, for the benefit of mankind, I cannot help thinking that they either must be actuated by ignorance and prejudice, or by a far worfe motive, that of malice, and the preying on the credulity and ignorance of mankind.

To conclude, I have this direction in general to give in regard to injections with this compofition. Let this injection be used three times a day, till the discharge becomes thick and ropy, which it will very foon (in fome fubjects, I have feen this change in twenty-four hours) then let it be done twice a day, morning and night, till the matter loses, somewhat of its yellow hue and becomes whitish, more ropy and less in quantity; once every morning will then fuffice, till the matter becomes transparent, and appears only in fmall filaments in the urine; when every other or third morning is enough till all disappears. This relates only to a long standing gonorrhæa; for in recent cases, if taken in time, and temperance observed, the cure by this method may be performed in eight or ten days; very rarely longer, unless by ill conduct, but generally in less time: I have had many patients cured to all intents and purposes of a most virulent clap in five or fix days; and others who have taken it in time, in twenty-four hours. Bathing contributes greatly to the cure; which, with an abstemious regimen, is the most effential towards preventing inflammation and the spreading of the virus; purging and bleeding however, in a recent clap, ferves only to infuse the infection into the whole animal fystem.

The CURE of SHANKERS and VENE-REAL EXULCERATIONS in general.

N regard to shankers, if the injection is applied at the commencement of the gonorrhæa, they will perfectly be prevented from making their appearance. But if they actually appear, particularly if they are inveterate, and have been so for any time, they may require some farther assistance to facilitate their cure; though in fact it is seldom, but that the composition of calomel and water will be sufficient. What shankers are in general I have explained in its proper place.

I shall only observe, that I am happy to think, the method I here offer for the cure of these unwelcome guests, is fully as concise and, as

effectual as in the foregoing.

The phimosis which attends the gonorrhæa, proceeds either from concealed shankers, or it will undoubtedly produce them. Poultices and steeping in milk, or somentations for that purpose, are meer nonsense; and the injecting between the præpuce and glans, with sharp solutions, as white vitriol, Roman vitriol, &c. serve only to increase the evil. The injection however above described will soon correct the acrimony, so as to reduce the phlegosis of the præpuce, that the glans may be uncapped, so that the nature and feat of the shankers may be examined into.

Let them be where they will, and ever fo malignant, there is no necessity for lunar caustic, Roman vitriol, or other escharotics; surgery suc-

ceeds at all times better without them, but especially here, they are abominable. And all diges-

tives, &c. are equally abfurd and useless.

I shall here present the reader with a cerate, which will answer all the indication a surgeon may possibly wish for; not only in shankers, but in exulcerations of whatever kind, and of whatever magnitude or malignity; by virtue of its antacrid, detergent, and epulotic qualities.

ANTACRID CERATE

CERATUM CONTRA ACRIMONIAM.

Recipe mercurii corrosivi rubri semunciam; mercurii dulcis sexies sublimati uncias duas; sacchari saturni unciam unam; ceræ albæ uncias quatuor; olei olivarum optimi uncias sex; essentiæ bergamot guttas viginti. Lævigetur mercurius dulcis corrosivo mistus super marmor planum cum paululo aquæ, ut siat pulvis subtilissimus; exsicca, misce cum saccharo saturni, iterumque lævigetur. Liquesiat cera cum oleo igne leni, insperge pulverem, adde essentiam, et agitentur simul omnia donec frigescat ceratum.

Among the various falves, plaisters, and cerates which hitherto either have been kept as specific secrets, or published for the benefit of mankind, for exulcerations, or cutaneous disorders, under what denomination soever, this cerate will substitute the place of them all. It is needless to mention particulars here concerning its extensive virtues in every malady which the venereal virus, or any other acrimony may give birth

birth to, whether exulcerations, or cutaneous eruptions, as have been before described; this, and this only, is the best application to perform all we can possibly wish from an external medicine.

I have therefore only this to add, that it may be applied without any restraint or regard to the parts affected, a capite ad calcem, either by rubbing it on the skin in cutaneous disorders in general, or by a pledge applied with lint; in all which cases, I would have recourse to this cerate alone.

The CURE of the PHIMOSIS, PARAPHI-MOSIS, CHORDEE, and PRIAPISM.

HAVING confidered the nature of these evils in the ætiological inquiry, I shall omit a repetition of it here. Suffice it, that the venereal virus being introduced into particular parts, occasions these evils.

When the phimosis, or paraphimosis, is occasioned from open ulcerations; the evil will certainly be removed beyond all doubt, by the foregoing medicines: But sometimes the virus is imprisoned in the lymphatic vessels in the præpuce; there forming gummata, or phymata, or chordlike callosities, which require other aids than have been hitherto given. In such cases, crude mercury has the preference to the other preparations, from its volatile quality; having a superior power of penetrating the pores of the skin. We must therefore have recourse to a mercurial

curial ointment, and other preparations where

crude mercury is concerned.

In these I differ nothing materially from those in the dispensatory, except the Venice turpentine, or balsam of sulphur; for though it divides more easily the particles of the mercury, yet I am apprehensive that it destroys the volatile quality thereof, (which here is the material object) and from its stimulus is liable to cause inflammation.

MERCURIAL OINTMENT *.

UNGUENTUM MERCURIALE.

Recipe axungiæ porcinæ curatæ et lotæ libram unam argenti vivi purificati semilibram, emplastri diabylon dieti (jamjam describendi) drachmas duas. Ope emplastri, cum paululo axungiæ misti, trituretur argentum vivum donec globuli omnes evanescant; deinde adde axungiæ reliquum probe miscens, ad finem adjicere poteris olei rhodii guttam unam aut alteram, aut essentiæ bergamot tantillum.

DIACHYLON PLAISTER.

EMPLASTRUM DIACHYLON.

Recipe olei olivarum libras quatuor, lithargyri

sesquilibram.

Lævigetur lithargyrus super marmor cum aquâ, tum coque cum oleo et aquæ exiguo super ignem lenem perpetuo movens donec oleum et lithargyrus perfecte coeant emplastrique crassitudinem habeant.

^{*} Mercurial ointment affords another preservative against venereal infection, by rubbing a little of it on the groins, &c. after impure coition.

MERCURIAL PLAISTER.

EMPLASTRUM MERCURIALE.

Recipe emplastri diachylon libram unam, argenti vivi purificati semilibram. Trituretur argentum vivum cum exiguâ quantitate unguenti nuper descripti donec omnes evanescant globuli, deinde emplastro immisce cum paululo aquæ liquesasto, bene commovens donec coeant.

EXTRACT OF LEAD. EXTACTUM SATURNI.

Recipe lithargyri optime lævigati libram unam aceti vinosi optimi libras quatuor, (mensura). Digerantur per aliquod tempus, deinde coquendo et commovendo quantum sieri potest solvatur lithargyrus, coctionem continuans donec extractum syrupi crassitudinem habeat. Si lithargyro ad fundum manenti novum apponas acetum, operationem repetendo extracti additamentum habebis.

The mercurial ointment, sparingly rubbed on the tumefied parts that are knotty or stringy, is generally sufficient to make them yield and disperse; and far superior to poultices, unless where some of the unction is intermixed with them, and with that addition poultices are indeed very potent.

The paraphimosis, as before observed, has fometimes a very angry aspect; when it has from the beginning been neglected, or injudiciously treated; however, in its greatest fury it will yield to the following.

ANTI-

ANTIPHLOGISTIC LINIMENT.

LINIMENTUM ANTIPHLOGISTICUM.

Recipe extracti saturni, unguenti cum mercurio, cerati contra acrimoniam, singulorum pondera equalia. Probe misceantur super marmor aut tegulam.

This liniment spread on lint, and wrapped round the paraphimofis and glans, will have an excellent effect; and will even conquer a gangrene itself. For besides the effects of the antacrid cerate and the mercurial ointment, the fedative quality of the lead contributes greatly to the flaccidity of the constricted fibres of the nerves. Though this is a most powerful antiphlogistic or anti-inflammatory liniment; yet I would advise it to be used with moderation; particularly, on account of the lead, which I am always suspicious of, unless it is in no greater quantity than what the tone may be recovered to expel it again. In flight cases the antacrid cerate will be fufficient; but this liniment may be made weaker, and particularly with vinegar, which, with a little trouble, foon intermixes, and maks an excellent application for all kinds of external inflammations, proceeding either from fealding, burning, or the eryfipelas, &c.

The chordee is foon fubdued by the above injection, particularly if recent, and the cause within the contact of the injection. But it will sometimes happen, that this chordee will be obstinate for a while, when the virus is imprisoned, so, that the medicine must have

fome circumvolutions, before it can arrive immediately at the evil; in this case, a little mercurial ointment rubbed externally, for some time, will effect the purpose. A mercurial plaister spread upon leather, laid externally where the place of the chordee is, and extended to the perinæum, together with the injection, will soon remove the complaint.

When however the tumefaction of the præpuce, or the labia of the pudenda muliebria are ædematous, (which is very feldom the cafe, except in very leucophlegmatic habits, or in emaciated constitutions) the before mentioned medicines will want an additional stimulus and volatility, to make the mercury penetrate, in order to become more effectual.

VOLATILE MERCURIAL LINIMENT.

LINIMENTUM VOLATILE CUM MERCURIO.

Recipe unguenti cum mercurio unciam unam, olei ex radice sassafras guttas viginti, campboræ scrupulum unum, spiritus volatilis salis ammoniaci semunciam.

In pulverem subtilissimum, ope guttulæ aut amplius spiritus vinosi, redigatur campbora; dein adde oleum, posteaque unguentum; quibus in unum corpus redactis, gradatim injice spiritum volatilem ut siat linimentum.

This liniment will speedily reduce odematous swellings, and be of singular service in many other cases, as we shall hereafter mention.

A pri-

A priapism, in ordinary cases, will subside equally with other inflammatory fymptoms; but when it is violent, and has an universal inflammatory constriction, and the consent of the whole nervous fystem for its foundation, it must have more aid than what can be given from external application. Bleeding here is requifite, and may be fafely undertaken in plethoric habits; but in this case the antispasmodic powders should not at all events be omitted, as thereby the mass of blood is saved from an universal infection; which bleeding will ever expose a patient to. Clyfters are also in this case of service, as therby the fyftem will become reduced, and a revulsion promoted; this, together with an abstemious regimen, and the application of the antiphlogistic liniment, cannot fail of fuccess, unless death is beforehand with

THE CURE OF A BUBO.

on impure coition, unless from a suppressed gonorrhæa; which is either occasioned from bleeding, purging, or other improper proceedings, as has already been enquired into. But let what will be the cause, when a bubo appears, the patient is on the brink of an universal infection. If the foregoing method is observed in a recent clap, a bubo will never appear from thence; but when it has actually appeared, it must be got rid of. If taken in

in time, the task is very easy. A mercurial plaister upon leather, the bigness of a crown, applied to the groin, the hair previously shorn away, and the part rubbed with some mercurial ointment, will settle the whole in a very short time, particularly if the antispasmodic powders are made use of; or to facilitate it, a purge is adminstered. But when the instammation is already arrived to a considerable height, so that the formation of matter is expected, the following poultice may be applied with great advantage.

An Emmollient and Antacrid Poultice.

CATAPLASMA contra Acrimoniam Emolliens.

Recipe cataplasmatis ex laste et pane confesti semilibram, liniminti antiphlogistici semunciam; misce.

Inguini applicetur tepidum ter de die, sicque brevi

certior eris dispersio an suppuratio eveniet.

But if matter is actually formed, it should be opened, but not too hastily; and if opened, the gentle dressings with the antacrid cerate will be sufficient; but with the recommended application, an effectual dispersion will generally be the case, and should at all times be the sole object in view. The common method of treating a bubo, has been the most irrational possible, and diametrically opposite to a curative indication; the endeavour to bring it to a speedy suppuration, with an intent to draw the venereal virus from the whole body, is exactly

exactly as rational, as in case of fire, to burn a whole street with a view to fave the city, by drawing the fire from all parts to the place of conflagration; and the fuccess is exactly alike in both: And I'll venture to fay, that the greatest number of the poxed, have been plunged into this malady by fuch mad proceeding; particularly if it is farther aggrieved by caustics, and kept open against all reason and nature. What the nature of a bubo is, I have fufficiently described before; it is needless therefore to repeat it, and whoever will let their reason overcome their prejudice, will fufficiently be convinced, that the above comparison is just. Extinguishing the fire must not be attempted by increasing the flames, and the venereal virus, exactly like fire, should be annihilated wherever it can possibly be attacked. Nature and art differ greatly in this respect; the wind may possibly drive the fire this or that way, and perhaps in our favour too; but if we mean to extinguish it, our business is to oppose it with water, wherever it is exposed to our attack; and fo with the virus, nature may endeavour to throw it on this or that part, but our bufiness is to destroy the virus wherever we can act upon it. Whilft therefore the medicines here recommended disperse the bubo, they destroy the virus at the same time; on which basis the dispersion should depend. This differs widely from repellents, where the virus is only transposed; whilst by bleeding, and purging, without the affistance of mercury, (the only antidote) the virus is only transposed

from place to place. For my own part I am so fully convinced of the efficacy of the simple method laid down, I will venture to say that of a thousand buboes, scarce one needs be opened; and that one too, must have been neglected before proper remedy were applied.

The pestilential bubo we have here no bufiness with; I have reason to hope however, that from the knowledge of the good efficacy of mercury, in the present state of physic, we shall for the future have little to fear from

that dire calamity.

As to the scrophulous bubo, it will always yield to the cataplasm before mentioned, as much as to any other medicine whatever; but in general the mercurial plaister will be sufficient; the cedematous as well as the schirrhous, will find the volatile mercurial liniment a powerful antagonist. But with all these stubborn tumours it should be observed, that according to the time they have been forming, and in proportion to the habit wherein they reside, time is also required for their removal. And that the gentle methods in these evils, as well as all others, are the most effectual, I shall prove to satisfaction hereafter.

The Cure of the HERNIA HUMORALIS, or SWELLED TESTICLES.

HIS is a more difficult task than any hitherto mentioned; for since the situation of the testicles is such, that the external applications

plications cannot immediately penetrate into them, on acccount of their separate teguments; add to this the many convolutions of the elaborate tubuli in the texture of the testicles themselves; this case sometimes requires more internal aid. But besides all this, what has contributed greatly to the difficulties in the cure of this case, together with the improper applications, has been the inattention to the spermatic vessels and vasa deferentia, by which the testicles are suspended, as I have before demonstrated. In order therefore to lighten the bur hen of the testicles, that the vafa deferentia may not be strained, and thereby become irritated, and increase the tumefaction, a suspensorium should be the first confideration, by which not only the fcrotum is fuspended, but the application had recourse to, kept better on the parts. For this purpose I have contrived a bandage though fimple, yet feemingly to me the best adapted for this purpose: But that I may not be too tedious here, I have delineated it in TAB. v. where the form, together with the explanation of it, will at first fight be easily understood. If affistance is had in time to the fwelled tefticle, a mercurial plaister, (and a purge, if need requires) together with the suspensorium, will very foon remove this painful and troublefome complaint. If this however feems infufficient, and the inflammation still continues, we are obliged to have recourfe to other aid. And here it is, where emetics may prove of fingular benefit; particularly if combined with mercury, or by mercury

mercury itself; where in some constitutions the turpith in three or four grains may to advantage be given. The following vomit however in my proctice I have generally succeded with, and it appears to me the safest.

A VOMITA

EMETICUM.

Recipe pulveris radicis ipecacuanhæ scrupulum unum; mercurii dulcis sexies sublimati more præscripto præparati grana quatuor; misce. Fiat secundum artem bolus aut haustus.

This vomit, particularly if the patient has taken some of the antispasmodic powders before, will not fail of forcing the mercurial particles throughout the whole system, and bringing by the emetic straining, the whole body into universal perspiration, and is the only aperient medicine in fuch cases. This method, together with a discretionary use of the cathartic pills, and if the inflammation is great, the antacrid poultice, or the antiphlogistic liniment applied, will subdue the most stubborn swelled testicle; unless indeed, it has arrived to too great a height before proper remedies were applied. If there is an actual fluctuation of matter, then it is but reasonable to let it out, with an incifion-lancet only; and apply dreffings with the antacrid cerate; but without escharotics, or tentings of any kind whatever.

anora, &c. if they are open

The CURE of VENEREAL, and EXCRES-CENCES in general.

VENEREAL excrescences are of three kinds; callous, or of a horny texture; carcinomatous and concealed under the skin; and lastly, open and in an exulcerated state. According to these differences, they vary in their treatment; for all depends on the immediate operation of the topic applied to them. Hence we see that in regard to their cure, their form is of little signification, for in that, chance, and the situation have the greatest share.

The porri, and verucæ, if the fituation admits of it, may with fafety be fnipt off with a pair of scissars to the quick, and the antacrid cerate will prove sufficient for the cure; or if their basis seems of a stubborn nature, the antiphlogistic liniment may be still more advantageous, particularly if there is any inflam-

mation attending them.

The condylemata, phymata, gummata, &c. are much of one nature, and the speediness of their cure depends entirely on the introducing the mercury. Hence the volatile liniment will in this prove effectual, and particularly if a little sublimate mercury be previously dissolved in the volatile spirit of sal armoniac; for example, one grain of the sublimate to an ounce of the spirit; and in this treatment I have succeeded to admiration.

odT of the groffest errors, ever committed in

The fraga, fici, mora, &c. if they are open and in an ulcerated state, the antacrid cerate, or if they are very stubborn, the antiphlogistic liniment will soon subdue them; and in a very short time destroy their soundation, make

them scale, fall off, and heal up.

In regard to the phagedænic lotion, the antimonial butter, the lunar caustic, the strewing the precipitate on them, are not only needless, but serve to give the patient unnecessary pain. The ligatures are shocking remedies; and after the great pain given to the patient, with the attending inflammations, and even the risk which accompanies such symptoms, they remove them but temperately, and the excrescences never fail of sprouting out again anew; since the roots remain, in the state as before. Fumigations are still more hazardous, and I will take upon me to affirm, that they never are used but with the greatest injury to the whole constitution.

Here however it is requsite to observe, that venereal excrescences too generally discover a latent pox in the habit; external remedies therefore are not sufficient: but internal remedies are requisite in order to clear the system of the virus, from whence such excrescences are produced. In what manner this is best effected I shall point out in its proper place. All I would here mention as an observation of consequence is, that salivation, as many have advised, is not only needless in this or any other state whatever, but deserves to be exploded as one of the grossest errors, ever committed in A a 3

the practice of physic; and as such, together with caustics, escharotics, sumigations, ligatures, &c. should for ever be banished from the heal-

ing art, by every good and judicious man.

In regard to the piles, I think it necessary here to observe, that amongst all the variety of nostrums which have been given as remedies, and the many more curious than true distinctions of these excrescences, (if I may so call them) but sew have amounted to any thing beneficial as to the relief of the patient. What they in reality are I have enquired into before; here I shall only treat on their cure; and this is performed with as much ease as truth, with the antiphlogistic liniment; by which not only the pain is immediately alleviated, but may be entirely annihilated; particularly if the antacrid tincture

is occasionally given.

And laftly, the fame method will ever hold good in other excrescences, as well as the venereal: But particularly what I would here hint at, is the yaws amongst the poor negroes. I have cured many of them without confining them an hour from their bufinefs, unless emaciated by the diforder itself; and never made a jot distinction betwixt that and the confirmed lues; for though the causes differ, yet the effects are the same. Such are the simple methods, though fully fufficient to remove the complaints and diforders proceeding from the first infection in general: And the earlier applied the easier the malady is removed, and others more dire prevented. The antispasmodic powder, together with an abstemious regimen, will at all all times (if properly regulated) destroy the acrimony, subdue the inflammation in the system, whilst the other remedies will effect the same externally; and perform all we can hope and wish for.

C H A P. VII.

The Cure of the Second Infection.

HOUGH the task is infinitely more difficult to eradicate the venereal virus from the system when the malady has introduced itself into the whole animal fabric, than when it is barely local and confined to particular parts; yet I abhor the notion of all harsh and desperate means, though handed down from father to son; and I slatter myself that every sensible man, on reslection, must be of my way of thinking.

When the body is emaciated, it is a wrong time to trouble the confused economy with additional torments; but enough of this at prefent; I have fully explained my sentiments on that head in the foregoing. I will therefore

proceed to the falutary method itself.

The principal object, is to correct the acrimony; or the virus which is ingrafted in the stamina and fluids of the whole composition; this must be done gradually; for though the principal bulk of the sanguineous mass may A a 4

foon be impregnated with mercury, yet such an impregnation contributes the least to the cure; it is the circulation in the most minute stamina in the solids, in the nerves, the tendons, and the very substance of the bones themselves that wants the most assistance; and how to come at these very minute parts is the thing in quadien

the parts of the body affected, the noiflsup ni All that hitherto has been delivered to us concerning the circulation of the blood, though ever fo just, is merely trifling, in regard to the material knowledge we stand in need of; it is not the rotation of the blood through the ventricles of the heart, the veins and arteries, glands, lymphatics, &c. &c. but it is the circulation through the very stamina of the fibres, of which the heart, the arteries, veins, lymphatics, glands, tendons, nerves, and the bones themselves are composed, that needs the greatest enquiry. Admit that falivation would be the most expedient method to eradicate the virus, (the contrary of which I think I have demonstrated) quære then, what time would be requifite? Four, five, or fix weeks are generally the stipulated time; but circulate the humours through these parts, or in other words, are those parts renewed in fubstance in that time? I believe no physical man of any penetration can think they are. But to make this matter more plain; let us just stop a little, and view the progress of the exostoses, hyperostoses, spina ventosa, &c. and the flowness of their progress will plainly convince us, that their cure must have more time to be performed in, than the stipulated time for falivation.

the bone, might, I think, if properly pursued, give us many valuable lessons in regard to the circulation of the blood through the most solid parts, which would be no small acquisition to physic. All that I would here endeavour to demonstrate, is, that in proportion to the solidity of the parts of the body affected, the more time it will require to eradicate the virus in those standard the standard that it is the standard to the solidity of the parts of the body affected, the more time it will require to eradicate the virus in those standard to the solidity of the standard to the solidity of the parts of the body affected, the more time it will require to eradicate the virus in those standard.

This being premifed, I shall here give a medicine, by the use of which, the most inveterate lues venerea, if at all curable, may be eradicated from the very stamina of the whole animal composition, as being the best adapted to penetrate into the remotest and most imperceptible circulation; for the particles of the mercury being so minutely divided, are capable to be introduced in so very small quantities, as not to affect particular congestions, or to become obnoxious to the system, whereby its universal effects might otherwise be obstructed.

ANTACRID TINCTURE.

TINCTURA CONTRA ACRIMONIAM.

Recipe spiritus vincsi restificati uncias osto; balsami Canadensis unciam unam; gummi guaiaci unciam unam; olei é sassafras drachmas duas, mercurii

corrosivi sublimati scrupulum unum.

Solve mercurium in spiritus vini dimidio, in reliquo solvantur simul balsamum canadense et guaiacum. Fæcibus subsidentibus, liquores limpidi per inclinationem effundantur, misce et oleum adde. Coibunt statim si oleum non sit impurum. Of this tincture, let the patient take morning and night, from ten drops upwards to twenty, in a glass of wine or water; and let them be continued for as long a time as is requisite for the cure; in whatever degree the malady may be, either cutaneous, glandular, diseases of the bones, &c. arthritic pains; all the symptoms described in the dry pox, and the confirmed lues itself: To this I will add, in every malady that may proceed from acrimony; whether from venereal or any other chronic distemper.

If there is an inflammation in the fystem, the antispasmodic powders may be used as occasion requires; but if there is a leucophlegmatic debility in the fibres, the analeptic tincture may be administered. If there is an obstinate obstruction of perspiration, with obdurated tumefactions, an emetic in such a case proves a beneficial deobstruent; and if the habit is robust, or otherwise sluggish, so that evacuations are required, the cathartic pills may prove of the greatest advan-

These are all the internal medicines requisite against all venereal or other acrimony in general; which though easy in their application, are by far more powerful to disengage the body from the introduced acrimony than the harsher means; and with all the speed that possibly may be pretended to be made, yet this easy method will ever be quicker in the effect.

It may however be requisite to mention something concerning decoctions, or, as they are called, diet drinks: The sassafras and the guaiacum may have many good effects in the system, on account of their refinous and penetrating qualities; but the rest of the ingredients as customary additions, I shall pass over as infignificant, for I cannot conceive on what principle they have been introduced; I will however fay fomething in particular of the celebrated farfaparilla: This, I am confident, is not equal in virtue to the same quantity of common barley; yet much indeed has been faid in favour of it: I shall not mention particulars; but I fear those gentlemen who have prided themselves on their inquiry into this drug, wanted the best foundation to work upon; namely, true principles of physic. I don't however condemn it entirely; for farfaparilla and affes milk may have their benefit too; especially on account of their price; and partly as they may yield fome nourishment.

As a medicated drink, I beg leave to offer the following; being agreeable to the palate, and beneficial to the fystem, at least to as great a

degree as any other,

MEDICATED BEER.

CEREVISIA MEDICATA.

Recipe bordei in usum zythepsæ preparati et moliti libram unam, radicis sassafras concisæ semilibram, aquæ fontanæ congium unum.

Coquantur aliquandiu in vase terreo. Frigescat et subsidentia facta limpidum effunde liquorem, qui servetur in ampullis obturatis.

This may be drunk freely at meals, and at any other time; having an agreeable acescency, which

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which is corrected with the subtile stimulus from the sassafras, by far more beneficial than hops.

This is the internal course in general, in which variation is very little requisite; yet as circumstances may occur, where some difference is necessary to be made, I will point out, as we proceed onwards through the contract through the con

ceed onwards through the various stages.

In cutaneous disorders, there seems at the beginning a salutary effort of nature, to expel what is obnoxious towards the surface; this effort should be moderately affished; a gentle perspiration is here requisite, promoted by the antispassmodic powders; and externally the antacrid cerate may be applied with the greatest advantage; to which the tetters, serpigo, impetigo, psora, pslyctænæ, &c. will ever easily yield, being all so many different kinds of the itch; for their cure depends only, on having the acrimony rectified.

When however the eruption is not superficial enough, so that the cerate cannot immediately act upon the virus itself, it must be treated with the antiphlogistic, or else with the volatile liniment as before directed to the cure of the excrescences; for the gummata, phymata, condylemata, &c. are all of a piece, and are something of the steatomatous kind, and of the most stubborn nature, on account of their tendinous bags; for which reason, where they lie safe, and it is practicable, I would advise to extirpate them by incision, and afterwards dress the sore with the antacrid cerate, which is the most expeditious way with these stubborn visitors.

The

The branny furfurations which generally are most plentiful about the head and face, are to be treated in the same manner as just now mentioned; even the most inveterate scabby or scald head will yield to this most powerful cerate. When however the scab is of a hard crusty nature, it will not be amiss, in order to facilitate the cure, to soften it with the following

MERCURIAL and SAPONACEOUS LOTION.

LOTIO SAPONACEA CUM MERCURIO.

Recipe linimenti saponacei unciam unam; aquæ fontanæ uncias quatuor; mercurii sublimati corrosivi grana decem. Soluto in aqua mercurio, linimentum adde.

With this dab the scabs frequently; by which they will swell, become soft, and peel off; then the antacrid cerate will be more effectual. If the furfuration or scab is universally over the whole body, nothing can be more effectual than frequent bathing, and especially with the composition as above; which, for example, may be added to as much water as is sufficient for the bathing tub, and may be repeated once a day at least, as long as it is needful: This, with the forementioned remedies, will be sufficient to cure the most inveterate and desperate leprosy or elephanthiasis, if at all curable; as long as its malignity has not exceeded the bounds of the skin.

In regard to the diseases of the glands, the task of the cure is more intricate, as the evil is sometimes

times very deeply rooted; yet the whole, as I have repeatedly observed, depends on destroying the virus. All that is requifite therefore to be observed on that head is, that I would advise every tumefied gland to be treated like the bubo; dispersed, (I mean not repelled) if possible; but if this feems impracticable, as fometimes is the case, where the fountain of the evil is too deep for external applications, particularly in most strumous maladies, and a collection of matter should be actually discernable; then it is confistent with reason to open for a discharge of the malignity. But all caustics or escharotics should be abhorred as precarious and pernicious; for no method is fo effectual, speedy and safe, as that with an incision lancet.

If the imposthume after being opened, or the ulcer, be it where it will, discovers sistulous canals, let them be frequently injected with the antacrid injection; and this method, together with the dressings of the antacrid cerate, I am persuaded will cure many scrosulous evils which otherwise are deemed incurable. With this method I have cured various evils of this nature, but particularly one most inveterate, of many years standing, that was deemed incurable.

We will now confider the ulcerations in the mouth and throat. This part cannot be treated with applications fuitable to the nature of its texture, like other parts of the body; as what is applied is apt to go down into the stomach. But fortunately, the antacrid injection is here not only safe, but perhaps the best adapted to an exulcerated throat of any yet thought of: The

worst that may accrue from the frequent use of it is a ptyalism, and which may easily be prevented by a purge, or the cathartic pills; but when the antispasmodic powders are given, as is always requisite, where there is fever in the system, a ptyalism, from the mercury, will be prevented by the diuretic quality of the nitre.

As ulcers in the throat and mouth are attended generally with a great discharge of slough and slime; which requires frequently to be removed, being not only pernicious to the putrescency of the ulcers, but infectious to the sound parts; I shall here prescribe a gargle in all such circumstances.

ANTIPUTRESCENT GARGLE.

GARGARISMUS ANTISEPTICUS.

Recipe aceti optimi, aquæ rosarum singulorum uncias quatuor; nitri purificati, aluminis rupei, singulorum drachmas duas; mellis sescunciam; mercurii sublimati corrosivi grana quinque.

Soluto mercurio in aqua rosaram, misceantur

omnia.

This gargle is a most efficacious one, not only in venereal cases, but in all fore throats, even of the most malignant nature. The Egyptian honey I have no opinion of; copper is too precarious a metal at any time; particularly where there is the least probability of its being introduced into the system: And medicine is at this time much better without it at any rate.

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The excrescences and exulcerations in the membrana pituitaria, are evils likewise worth a serious consideration; the injection here is the most suitable and effectual, whilst yet practicable; and if the passage is obstructed, room must be made for it; But if taken in time, whilst yet in its commencement, and in slight cases, I here recommend a powder, which then will be very efficacious, applied occasionally like common shuff.

ANTACRID SNUFF.

STERNUTAMENTUM CONTRA ACRIMONIAM.

Recipe florum lavendulæ unciam unam, radicis iridis florentinæ semunciam, mercurii dulcis sexies sublimati (rite præparati) scrupulos duos.

In pulverem subtilem redigantur separatim la-

vendula et iris, deinde misceantur omnia.

This fnuff will remove the acrimony in the various cavities wherever it may be introduced; and as the iris and lavender will irritate to fneezing, the paffage may by this be opened the more for the admittance of the mercury.

When the ears are infected, nothing will fuit better than the injection; and if the temples are fwelled, the antiphlogistic liniment may be used

with much fuccess.

When the eyes are affected, externals are requisite; the antacrid cerate will prove successful to the eye-lids in general; but as it cannot be applied to the ball itself; and the injection, yet sine as it is, may be too gritty, and not distributed sufficiently, I will recommend the following

UNI-

Universal Ophthalmic Water.

AQUA OPHTHALMICA UNIVERSALIS.

Recipe aquæ ex alembico vitreo destillatæ uncias quatuor; mercurii corrosivi sublimati granum unicum. Misce, stent per horas 24 et effunde, sæcibus relictis.

Of this drop one drop or two in the eye at a time, which will remove films, inflammations, and excrescences that may be externally on the horny coat; and as it is of a penetrating nature, it will even correct the more internal evils

without the least injury to the fight.

In regard to schirrhous tumors, they are very obstinate; yet with perseverance, a good constitution, and a good regimen, they may oftner be subdued, than what is in general thought, by the antiphlogistic liniment. And how dreadful soever the ulcerated cancer is, yet the antacrid cerate will (if not too deep ingrafted) conquer this most malignant of all ulcers; provided the cerate is not intermingled with other ingredients, which may be of a pernicious consequence: At least the antacrid cerate is the properest; this I know from experience and success, even to my most sanguine expectations, and therefore strenuously recommend it as an universal application to all exulcerations whatever.

We will now proceed to the cure of the difeased bones. This task is the most difficult; but this difficulty proceeds only from the tediousness,

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and the impatience of persevering in the gentler

methods, which it actually requires. In muillon

In examining the progress of the diseases of the bones, we find the evil generally comes on flowly; and the pain attending them the more pungent, as the contest of the virus with the found part is the greater. I shall not recount all the malaladies here, but suppose the reader to recollect what has been already related on that head; fuffice it, that as the different effects may have the same cause, one kind of remedy serves for all. I havetherefore only to recommend externally to the nodes, exoftofis, hyperoftofis, &c. the antiphlogiftic or the volatile liniment, as before advised, to the gummata and phimata, &c. together with the internal course before described; by the continuance of which, together with a fuitable regimen, will be effected what possibly may be hoped from medicines. If falivation was effectual, the diseases of the bones would be the only time to put it in execution. But in these, it is universally agreed, to be of no benefit, and only augments the evil; and in fact fo it does with almost every other malady of confequence.

In regard to the carious, and consequently the exsoliation of the bones, I have this only to observe, that the gentler the means, the better will be the success; the scraping the bone has oftener hindered the good effect intended than promoted it. In vain do we endeavour to remove the carious part, till nature has covered the sound trunk of the bone with a periostium; when the scale gradually loosens, and by degrees separates, so as to drop off itself:

But

But if too much irritated, the new formed perioftium inflames anew, corrodes the found bone again, and fo continues the exfoliation till the whole limb is endangered or loft, which otherwife might have done very well. Here I have likewife to observe, that the customary balfam arcæ, or yellow bafilicon, are (notwithstanding the antiquity of their uses) improper. They stimulate without correcting the acrimony; whatever is faid in praise of their digestive quality, it is a mistaken notion; and an ulcer will at all times fucceed better without them. The antacrid cerate will answer all that can reasonably be wished for; and no other is requisite. It will fometimes happen however, that an exfoliation will want an outlet; in fuch a cafe it is but requifite, to make an opening for that intent; but care should be taken, that the scale is previously feparated, and fit to be taken out immediately; fo that the operation may be done with as little inflammation as possible: For an additional aggravation is apt to corrode and disturb the tender offification of the found bone, and which, together with giving the patient great pain, frustrates all that has already been done towards the cure. From this it is clear also, that for such dilation, the biftoury is the only thing to be depended on.

A fpina ventosa is a terrible ailment; the pain is excruciating; and this may easily be supposed, as the shocking exulceration of the marrow, and the bone itself, work their way outwards; add to this the tediousness of the malady's progress, as well as the time which the medicine must require to operate in the confused offisied stamina.

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This dire case, as it comes gradually to its height, increases with inflammation of the fofter

parts.

When the inflammation either proceeds from that, or any other cause, so that a gangrene or fphacelus is either expected, or actually begun, the following fomentation may be deemed as powerful as any whatever to prevent the cadaverous putrescent progress of the sphacelus.

ANTIPUTRESCENT FOMENTATION.

FOMENTUM ANTISEPTICUM.

Recipe spiritûs vinosi, aceti, singulorum uncias quatuor; extracti saturni unciam unam; campboræ drachmas duas; mercurii corrosivi sublimati scrupulum unum. Solve camphoram et mercurium in spiritu, extractum autem iu aceto, deinde gradatim misce.

With this, wet compresses and rollers, and foment the gangrenous parts, as circumstances may admit. If a sphacelus has taken place, scarify to the quick, and continue the fomentations, together with other fuitable applications; which, if the patient is not entirely emaciated, will prove fuccessful. The exulceration must be treated as before directed.

In regard to the hyperoftofis and anchylofis, this may be of an indolent nature, having a depraved fynovia for the foundation; they require iometimes, together with a corrector of the acrimony, a stimulus, to promote the action of the folids, particularly when there is a paralytic com-

plaint

plaint combined with it, and forms what is called the white swellings; in such cases the following poultice will prove of singular service.

ANTIPARALYTIC CATAPLASM.

CATAPLASMA ANTIPARALYTICUM.

Recipe radicis raphani rusticani semilibram; linimenti volatilis cum mercario, unciam unam. Raphano scisso et contuso, immisce linimentum. Bis de die applicetur.

This is also excellent for rickety disorders, and where there is an ofteosarcosis to be feared; as also in paralytic cases, applied to the articulations

as occasion shall require.

If the articulation comes to suppuration, the aposthume must necessarily be opened; and the matter let out, treating the sinus with the injection, and the exulceration with the cerate: But such a case is enough to bassle the skill of the ablest surgeon; yet gentleness will ever shew the fairest prospect.

I shall not enlarge further on the cure of the diseases of the bones; the maladies vary ad infinitum both in appearance and situation; whatever might farther be said, would avail little without chirurgical skill; and where that is, the foregoing observations may always be rendered

useful according to circumstances.

We will now turn our thoughts again to the application of internal medicines. In all the forementioned diforders, it is eafily to be supposed, that the pains are sometimes terrible; and it is a bleffing

bleffing that we can procure relief to the poor afflicted patient under fuch distressful circumstances, and with safety too. To judge properly of the nocturnal venereal pains, in the arms, legs, skull, &c. proceeding from nodes, exostosis, spina ventofa, and a caries in the bones, let us suppose it proportional to the tooth-ach, which when proceeding from a decay, is of a fimilar nature: But as I have observed before of anodynes, first, they should be used with caution, even in the most excruciating pains; and secondly, they should be corrected, so that at the same time they ease the nervous system of the torment, that they may also affift towards correcting the acrimony that occasions it; together with preferving the proper tone of the nerves in their requifite elasticity. On those principles I offer the following anodyne, as the fafest and best on all such occasions.

ANODYNE ESSENCE.

ESSENTIA ANODYNA.

Recipe opii colati unciam unam; spiritus vinosi rectisicati * aetheris vitrioli, singulorum uncias quinque; olei essentialis menthæ piperitidis drachmam unam; mercurii corrosivi sublimati grana decem.

Opio in spiritu soluto, cola, deinde adde cætera probe miscens. Dosis sint guttæ decem aut duodecim.

In the former edition, I had ordered fweet spirit of nitre as well in this as in the antacrid tincture; but as it is feldom so spirituous as to admit of a pure incorporation with the effential oil of peppermint, I have substituted in its stead spirit of wine; for the small quantity in the dose cannot have any sensible effect, and sweet spirit of nitre may be added as occasion requires.

This

This anodyne effence may occasionally be administered, together with the antispasmodic powder, or with the antacrid tincture, or any other medicine, that circumstances may require.

I shall not here enumerate the many additional complaints which attend the venereal virus, and must consequently follow from a deprayed and disturbed animal economy, nor specify their separate remedies; as the judicious practitioner will from the foregoing know my sentiments on that occasion, and form a proper judgment accordingly. I shall only add a few observations on some disticult cases, which may serve as a caution against the gross errors of surgery, to which many

patients have fallen a facrifice.

It fometimes happens that venereal or other patients have all on a fudden an inflammatory constriction of the urinary bladder, when the virus of long standing has infinuated itself into the sphincter of the vesicæ urinariæ: In which case the catheter is too frequently made use of; the application of which, is not only the most difficult, but fometimes from the constriction impossible; and if persisted in, only augments the spasmodic constriction, increases the inflammation, and has often proved mortal. In this case I advise a fingular remedy; namely, to put the feet into cold water. This I have known fucceed in the most desperate malady of this nature, when every other method has failed; and is the fafest and most effectual remedy in all inflammatory urinary suppressions. Clysters of pure cold water, with some diffolved nitre, are also very efficacious; but the internal use of the antispasmodic Bb 4 powders, powders, and the antacrid injection with the flexible catheter, after the urine is evacuated, must not be neglected. The fear of chilling the blood with the cold bath, in such constrictive suppressions of urine, is groundless; on the contrary, it is of itself a powerful antispasmodic, and is generally followed with a gentle diaphoress.

The next confideration is, the abfeefs in the perinæum. This is an evil of the utmost importance; and too often has been occasioned by the improper application of the catheter, an instrument, which should never be applied in the suppressions of urine, but where certainly the obstruction proceeds from a calculus damming up the paffage. But be the cause what it may, we only will here confider its remedy, when being called to immediate affiftance. What is the most proper to be done whilst the case is in a state of inflammation, I have considered before; but when there is an actual fluctuation of matter, it is then confistent with reason, that it should be opened. The introducing previously the catheter in that case, as some authors have directed, is not only needless, and additionally painful, but even hinders the certainty of the operation; and the introducing the finger into the anus is equally needless. Let the patient kneel on a bed or couch, and stoop with his head as low between his knees as possible, in which position the parts may with eafe and certainty be inspected, and that there is nothing to hinder the operation. If needful, an affiftant may fecure the patient in that pofition. Then with the incision lancet, open the aposthume, as much as is requisite, but not requestingeon, who is called to tuch adeplorable

deeper than needful. It is an erroneous suppofition, that all the cavities are to be opened, and
this has been the ruin of many. When the
aposthume is opened, search with the utmost tenderness, with an easy slexible probe, guarded by
a smooth button, into the various cavities, and
in every cavity inject cautiously the antacrid injection. Dress the ulcer with the antacrid cerate: and if there is inflammation, apply the cataplasm before described. If time and circumstances admit, clysters previously, and after the
operation, are very requisite; but by no means
draftic purges, or any thing that causes a stimulus.

If the urethra, by this operation, has been obliged to be laid open, the ulcer should, when the inflammation admits of it, be cleared as much as possible, and bougies, when the lips begin to unite, are highly requisite, in order to render the passage as clear as possible from carnosities, which the cicatrisation might occasion. With this method I have succeeded in two most desperate cases, and the patients perfectly recovered. The one for some time voided the urine through the ulcer, so that for a while I despaired of a perfect cure; which however was happily effected.

Another operation yet more precarious, and terrible in its nature, is the amputation of the penis. If the foregoing remedies are applied in time, there is no need for this melancholy undertaking: But when the sphacelus has already taken place, and entered into the cavernous bodies, the inflammation transformed from a florid tense hue to a dusky brown cadaverous aspect, the skin in a putrid state, attended with a nauseous fætor: The surgeon, who is called to such a deplorable patient.

patient, must not hesitate a moment, to amputate the member. Ligatures in that case, or couteries to stop the blood, &c. ought to be rejected as very improper and pernicious; and I cannot believe that ever one recovered with such a terrible treatment.

The best method is; having the dressings in readiness, the needles properly armed, dry lint, ftrewed with some calomel *, and the before mentioned antiputrescent fomentation, &c. And the patient properly fecured in a laying posture, divide the mortified part from the found; with a large biftoury, and take up the two arteries with the needles; lay on the pledgets of lint prepared with the calomel, over which lay compresses previously wetted with the fomentations mentioned, and the patient put to composure. The antispasmodic powders, together with the anodyne effence made into draughts, as occasion requires, and clyfters occasionally repeated, &c. are requifite. The bark is greatly esteemed in such cases; but I am inclined to think the patient will ever by the above rules do better without it.

Laftly, I will confider the important operation of extirpating a scirrhous or mortified testicle. Mr. le Dran has been very circumstantial in this operation, but with humble submission, his method rather perplexes, and renders the operation precarious; the ligatures which he orders on the spermatic arteries are not only needless, but are

^{*} Calomel intermixed with flarch, strewed on a pledge of lint, is perhaps the best application possible, to the stump of an amputated limb; and worth the consideration of every judicious surgeon.

liable to inflame them. The entrance of the spermatic arteries from the aorta are very narrow, so that the blood enters and circulates in them but very slow, and in this respect they differ very little from the veins; so that his sears of the patient bleeding to death are entirely groundless. His precautions, that the divided spermatic vessels should not go back into the abdomen, are equally ill founded; for that will and must be the case if the patient does recover. The parts becoming useless, naturally shrivel up, and in time are quite obliterated; as has been observed in the diffec-

tions of castrated subjects.

This confidered, the operation is performed with less trouble and certainty to the operator; and less pain, and more safety to the patient. The method is this. The patient being laid backwards, his legs diftended, and fecured by proper affiftants, divide the fcrotum lengthwife on the diseased testicle with a bistoury, so that by one incifion the aperture will admit the taking out the testicle; extend the spermatic vessels invested by the peritonæum by which the testicle is fuspended; and separate the testicle, as near the abdomen as may be; then drefs the wound with dry lint prepared with calomel as before observed, and let it be dreffed with compresses, steeped in the before mentioned fomentation, in order to quell an approaching inflammation; and thus with proper care, a complete cure will foon be effected.

The fear of an hæmorrhage, or a collection of matter in the abdomen from the draining of the spermatic vessels is without foundation; for when

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when we confider that they are enveloped with the peritonæum, and that the drain must consequently descend to the orifice of the operation, it can be of no consequence; but besides all this, whilst the divided spermatic vessels are immediately enclosed, freed from the external air and farther irritation, the parts become eafily reconciled; and the draining will be absorbed by the neighbouring lymphatics, especially if the habit is otherwise good; this is sufficiently experienced by the simple method of * castrating brutes in many countries; and the + eunuchs among the Easterns, where that operation is performed with eafe and fafety; whilst it must always be attended with the greatest hazard of life when the operation is perplexed with fo many unnecessary circumftances, as fome writers have advised to be followed.

But this theory I can confirm by experience in two desperate cases; the one a contused testicle, where an approaching mortification threatened the loss of life; the other, a scirrhous testicle of an enormous fize, in a negro; in both cases I took the above method, and was so successful, that without the least symptom of danger, both

^{*} That I might the more be confirmed of the fafest method of castration, I have performed that operation in various ways, on boar pigs, and diffected them afterwards; in order to discover the effects of each different way.

⁺ Castration is a remedy I recommend to sodomites. I humbly conceive, if the legislature should order this operation to be inflicted on these miscreants instead of other corporal punishments, it would be the only effectual method to quell that horrible pest to society. stients allo repeatedly mentioned in the var-

patients recovered in a short time their former

health and vigour.

Before I conclude, I think it yet requifite to observe something concerning my method of internal treatment before-mentioned .- Notwithftanding the gentleness I have so much insisted on to be ever observed as the safest and most effectual method to eradicate the malignity from the fystem; and the small doses of mercury administered to that intent; yet so various are the constitutions, and so many different changes happen in the same system, that circumstances should ever be confulted, and accordingly the effects will vary ad infinitum. Mercury, in whatever form it is given, will fometimes in the smallest quantity be inclined to affect the falivary glands; particularly if other fecretions and excretions feem to be obstructed; but as I advise the congestion of humours to the falivary glands, to be ever avoided, being fully perfuaded it must oppose the falutary effects of the mercury intended, I hold it always prudent to balance the fecretions of the fystem with other evacuations; whether cathartics, diuretics, diaphoretics, &c. by which the fystem may be again rectified; which a prudent practitioner will ever know how to guide with caution.

I must likewise observe, that the notion of mercury being merely an antivenereal medicine is evidently one of the groffest errors of physic among our modern mistakes. Experience confirms that its antacrid quality extends to every malady in the human body, that has acrimony for its foundation. I have also repeatedly mentioned in the va-

rious

rious parts of this treatife, and a due observance in practice daily confirms it, that whatever malady the venereal virus is liable to bring on, the fame may also be produced by a variety of causes, either externally or internally, materially different from the venereal infection. Hence prejudice fhould be banished from the rational practitioner; the curative indication should ever be formed according to the nature, action, appearance, and fituation of the disease, but not precisely according to the cause that produces it; fince those may be

different and yet the effects the fame.

This confidered, and which is strictly confirmed by experience, mercury and its preparations, the universal antacrid, is certainly the greatest medicine we have in the whole materia medica; not only in the venereal, but in every disease to which the human body is liable, without distinction to name, cause, action, or part affected, and sex or age of the patient. But let it ever be remembered as a facred maxim in physic, that the virtue of a medicine confifts wholly in the skill of its application, and that the best and most falutary medicine is converted into the most deliterious poifon, if injudiciously administered.

With respect to the venereal disease, the groffest absurdities have from time to time been adopted. Every age has had their peculiar and fashionable errors; which, like clouds in continual fuccession, have obscured the sereneness of truth. At present, a notion seems to creep in, that a gonorrhœa is of a different nature from the lues venerea, and contains nothing of the infectious malignity in its nature; and that fhankers

however.

however, and the other fymptoms, are distinctly

the malignity of the virus *.

I shall not say any thing of the absurdity of the error; but as it is an ignus fatuus by which many are liable to be led into destruction, I would caution every person who has any reason to consult, or health worth preserving, to guard themselves against the allurement of this error of judgment. An old habitual purulent gonorrhæa may seem to come under such a denomination; but notwithstanding its gentleness, it is sooner or later liable to subject the patient to an unaware shock, to the peril of life itself: But the recent gonorrhæa in irritable subjects might, I think, on the least serious reslection, annihilate an absurdity too gross even to admit of resutation.

The animal virus, like fire, may be kindled many different ways, and affect many different parts, and in this confifts the variety of difeases; whilst there is the least spark remaining in the system, the animal sabric is not safe from a universal conflagration. And all the affistance nature requires from art is to quench the destructive fire, wherever it is open to be acted upon, to affist the salutary efforts of the animal occonomy, and by the gentle hand of judgment, to set na-

^{*} Had this notion been afferted by men of inferior character, I should have imputed it to ignorance, and not thought it worth my notice; but what makes it the more surprising is, that men of character and of reputed ability, have had their judgment so far mislead, as to favour a notion in itself both pernicious and ridiculous.

[†] See chap v. part ii. from page 116 to 216.

ture to rights, when by difturbances of acrimony

she is led astray from her falutary laws.

Here then I beg leave to conclude this treatife. And as I have throughout the whole followed the dictates of reason, experience, and an upright heart, I am at least sure of this consolation in my last moments, that I have, to the best of my judgment, discharged myself in this, as a faithful member to fociety, in obedience to truth and duty. here may feem to come under friend a shi

tion; that not will be an outleted, it is fooner or interliable to maject the petient to an reaser's rech, to the pend of life inch: But

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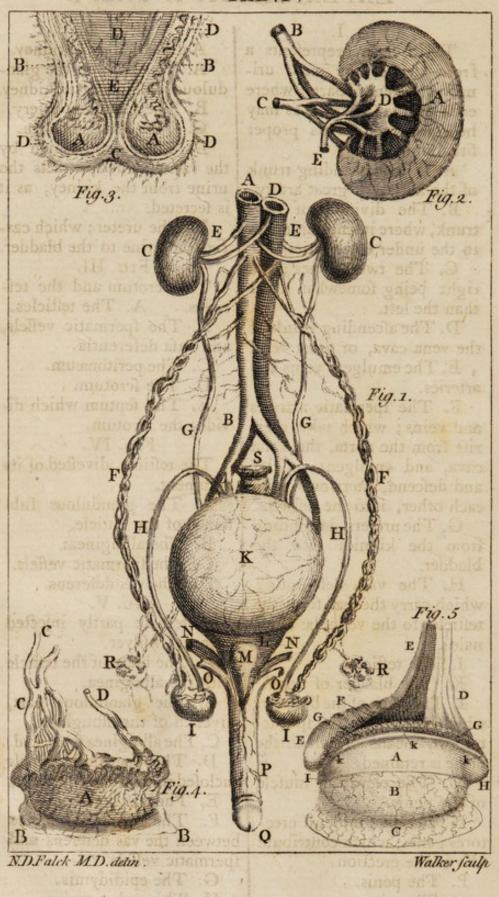
fice, wherever it is enon to be acted upon, to

and by the gentle hand of judgment, to let his

and realist the men will be a soul college with the

We a business to bus services to man tone in each





H. The clobus major

EXPLANATION of TAB. I.

Fig. I.

THIS figure represents a front view of the male urinary and genital parts; where each part is (as much as may be) preserved in its proper fituation.

A. The descending trunk of the aorta, or great artery.

B. The division of this trunk, where it sends branches to the under extremities.

C. The two kidnies; the right being fomewhat lower than the left.

D. The ascending trunk of the vena cava, or great vein.

E. The emulgent veins and arteries.

F. The spermatic arteries and veins; which take their rise from the aorta, the vena cava, and emulgent vessels; and descend, interwoven with each other, into the testicles.

G. The ureters, descending from the kidnies into the

bladder.

H. The vafa deferentia; which carry the feed from the testicles to the vesiculæ seminales.

I. The testicles.

K. The bladder of urine.

L. The neck of the bladder; which constitutes the sphincter: by means of which the urine is retained.

M. The elevating muscle

of the penis.

N. O. The musculi erectores penis; which contribute also to the erection.

P. The penis.

Q. The glans.
R. The inguinal glands.

S. Part of the intestinum rectum.

Fig. II.

A diffection of a kidney.

A. The body of the glandulous substance of the kidney.

B. The emulgent artery. C. The emulgent vein.

D. The bason, which by the various ducts attracts the urine from the kidney, as it is secreted.

E. The ureter; which carries the urine to the bladder.

Fig. III.

The fcrotum and the tefticles. A. The tefficles.

B. The spermatic vessels, and vasa deferentia.

C. The peritonæum.

D. The fcrotum.

E. The feptum which divides the fcrotum,

Fig. IV.

The testicle, divested of its tegument.

A. The glandulous fubflance of the testicle.

B. The albuginear

C. The spermatic vessels.

D. The vas deferens.

Fig. V.

A testicle partly injected with quickfilver.

A. The body of the testicle

with the albuginea.

B. The glandulous part, divested of the albuginea.

C. The albuginea separated:

D. The spermatic vessels inclosed in a celular substance.

E. The vas deferens.

F. The celular substance between the vas deferens and spermatic vessels.

G. The epididymis.

H. The globus major.

I. The globus minor.

k. The feparation from the peritoneum.

EXPLANATION of TAB. II.

Fig. I.

THIS figure represents the membrum virile in its natural position, viewed side-ways, in order to exhibit the curve of the urethra, as well when the member is erect, as when it is flaccid.

A. The bladder.

B. Part of the intestinum rectum,

C. The anus.

D. The neck of the bladder.

E. The urethra; this part from O to C is called the peringum.

F. The conjunction of the

os pubis.

G. The connexion of the erectores, &c.

H. The pubis.
L. The abdomen.

M. The penis when erect.

N. The glans.

O. The penis when flaccid.

P. The fcrotum.

Q. The tefficle.
R. The spermatic vessels.

S. The vas deferens.

T. The ureter.

U. The feminal veficle.

Fig. II.

Representing that part of the urethra which is next to the rectum.

A. A portion of the bladder.

B. The ureters.

C. The vafa deferentia.

D. The veticulæ feminales.

E. The proftate gland. F Part of the urethra.

G. The blood vessels of the vesiculæ seminales.

H. The mucous glands.

I. Two fmall glands near the prostate.

K. The accelerator; divided in the middle feam, and

expanded.

L. The bulb of the cavernous body of the urethra, inflated, and divested of the accelerator muscle.

M. The third pair of mus-

cles of the penis.

N. The musculi erectores penis.

Fig. III.

The cavernous body of the urethra, with the glans; and flit open, fo as to see part of the inside.

A. The cavernous body.

B. The urethra.

D. The cavity formed in the corpus cavernofum glandis penis; in which the extremities of the corpora cavernofa penis are received.

D. The upper part of the

glans.

E. The glans. F. The frænum.

Fig. IV.

Shews the fituation of the inguinal glands, and the neighbouring parts.

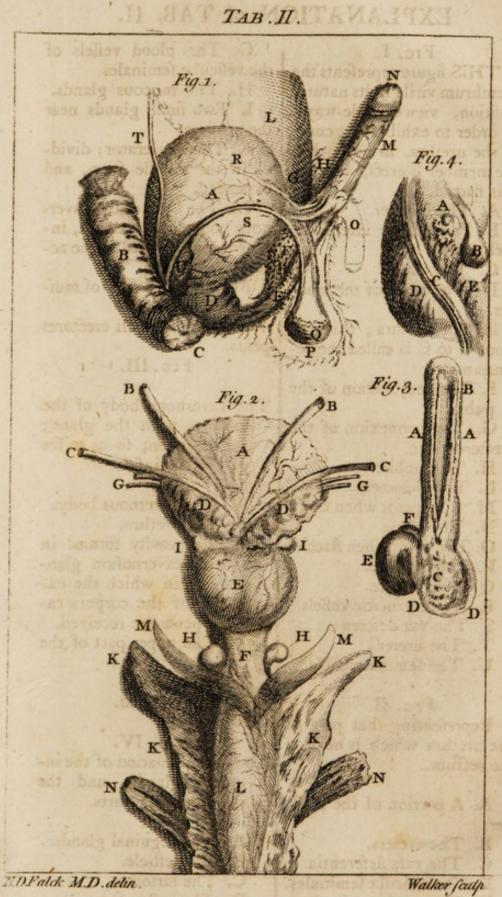
A. The inguinal glands.

B. The testicle.

C. The fartorius.

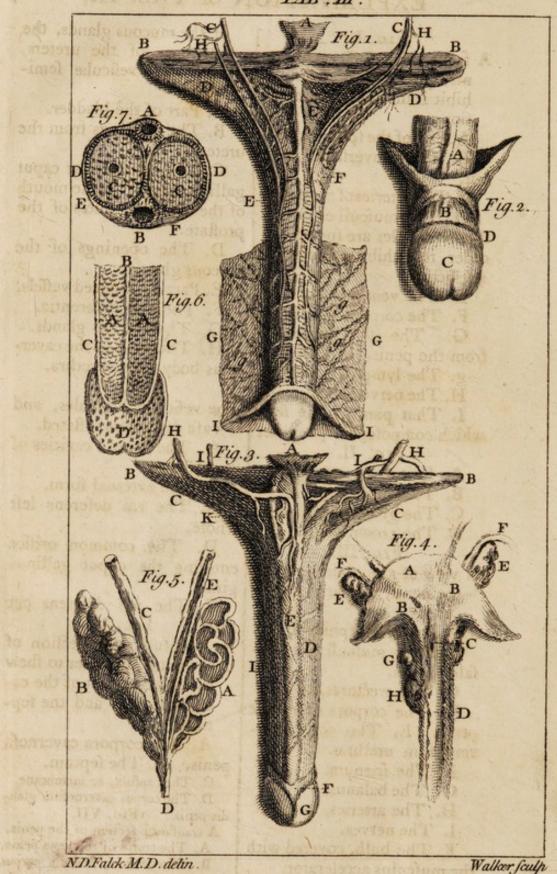
D. The rectus femoris.

E. The triceps.









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EXPLANATION of TAB. III.

Fig. I.

A front view of a human penis, prepared for as to exhibit it in the state of erection.

A. Part of the sphincterani.

B. The tranversalis spread out.

C. The arteries of the penis.

D. The musculi erectores. These muscles are spread, in order to exhibit them more distinctly.

E. The vena penis.

F. The corpora cavernofa.

G. The skin separated from the penis.

g. The lymphatic vessels.

H. The nerves of the penis.

I. That part of the skin which composes the præpuce.

Fig. II.

A. Part of the penis. B. The duplicature.

C. The glans or balanus.

D. The crown.

Fig. III.

A view of the under part of the penis, prepared as before.

A. Part of the sphincter ani.

B. The musculi transverfales penis.

C. The erectores.

D. The corpora cavernosa penis, E. The corpus cavernosum urethræ.

F. The frænum.

G. The balanus.

H. The arteries.

I. The nerves.

K. The bulb, covered with the musculus accelerator.

Fig. IV.

The fore part of the urethra laid open; to shew the orisices of the excretory ducts of the mucous glands, the openings of the ureters, from the vesiculæ seminales.

A. Part of the bladder.

B. The openings from the

C. The caruncle, or caput gallinaginis; with the mouth of the excretory ducts of the proftate.

D. The openings of the

mucous glands.

E. Parts of the feed vessels:

F. The vafa deferentia.
G. The mucous glands.

H. The bulb of the cavernous body of the urethra.

Fig. V.

The vesiculæ seminales, and vasa deferentia inflated.

A. The inward cavities of the veficles.

B. The external form.

C. The vas deferens left

D. The common orifice entering the caput gallinaginis.

E. The vas deferens cut

thro'. Fig. VI.

A longitudinal diffection of the penis, in order to shew the internal part of the cavernous body and the septum.

A. The corpora cavernofa penis. B. The feptum.

C. The capfula, or membrane.
D. The corpus cavernofum glanlis penis. F10. VII.

A transverse section of the penis.

A. The trunk of the vena penis.

B. The urethra, and its corpus cavernosum.

C. The corpora cavernosa penis. D. The trunk of the arteries.

E. The tegument of the corpus.
F. The capfula, or common tegument.

EXPLANATION of TAB. IV.

Fig. I.
REPRESENTS the genital parts peculiar to the female

fex, on a fide view.

A. The bladder.

B. The vagina. C. The uterus.

D. Part of the fallopian

E. Part of the rectum.

F. Mons veneris.

K. G. N. Pudendum muliebre.

K. N. The rima magna.

G. The labia.

H. The Nymphæ.

I. The clitoris.

K. The præpuce of the clitoris.

L. The meatus urinarius.

M. The orifice of the vagina. N. The perinæum; the space between the pudendum and the anus.

O. The anus.

P. The ureters.

R. The carunculæ myrtiformes.

Fig. II.

This figure represents the uterus and vagina, partly opened.

A. The uterus; that part

next the rectum.

B. The infide of the vagina, with the rugæ, and the small openings of the mucous glands, called Lacunæ.

C. The mouth of the ute-

rus.

D. The orifice of the mea-

E. The carunculæ myrtiformes.

E. The præpuce of the cli-

F. The clitoris.

G. The external part of the vagina.

H. The fallopian tubes,

I. The external parts of the ovaria.

K. The ovaria divested of the vascular membrane of the peritonæum.

L. The fpermatic veffels.

M. The loose flaps of the tubes, called the morfus diaboli.

N. The broad ligaments, properly nothing but a continuation of the peritonæum.

O. The fundus of the ute-

rus.

P. The ligamenta rotunda.

Q. Its extremities; which are fixed to the os pubis, whose ramifications end in the clitoris.

R. Some of the blood veffels; which from the spermatic vessels give their branches to the fallopian tubes and the uterus. Fig. III.

The clitoris and its appendages: inflated, as it is in

coitu.

A. The body of the clitoris; distended, as it is with blood in coitu.

B. The great vein.

C. The arteries and nerves.

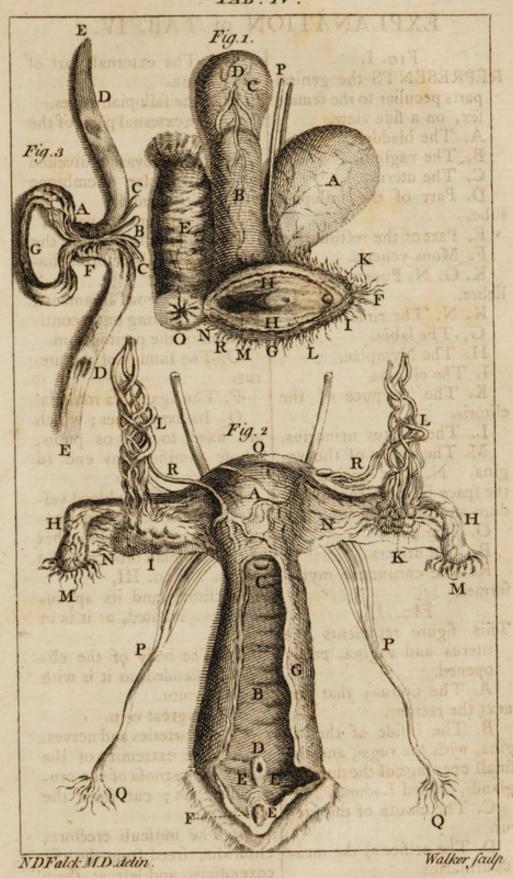
D. The extremity of the corpora cavernosa of the erura clitoridis; cut from the ossa pubis.

E. The musculi erectores clitoridis, freed from the offa coxendicis, and left at their

terminations.

F. The crura alfo diftended.

G. The corpus cavernafum pudendi, inflated by the veins of the clitoris.



EXPLANATION of TAB. V.

Fic. I

Represents the female, 1) singe, in its natural fixe; which should be made at the best ivory.

A. The barrel part; which bould be frome, and the barrel quite true; the gillon ha may move carry and the whole had being to were.

M. Is the lower property which though the bound be found in any carrow canal, the tat double lines Cay hich the tat double lines Cay hich they are up open and the end D. This though he forewed on exactly to his open per, to as comske a good per part, to as comske a good

if the vaging is recented to be injected, waiting a collection for order to each are necessary, in order to each are the injection fearch if to rac the rious ruges in the staginary but if the injection is the staginary of the uterus that, one performion in the medicine, and the other are their may be stopped up with the stage of the stage of

Represents a common by ringe of ivory, made for do to the fit in the capitula of the flex-blue catheter.

A. The fyeinge.

B. The flexible curpeter.

a the cubeter.

D. The pipe of the fyringe, which may occationally be ferewed on.

Fro III.
A fireight billoury; the best infruences for amoutaring the peny, cafration, Sec-

The acrooked biltoury guarded at the point with a kind of button, which is a continuation from the back of its and serves instead of a conductor, the best instructions of the opening of filterious cannot be the absence of the absence in the absence in the absence in

Fig. 19.
Is an inciden lance for the opening of spotthames in general , it shoes sexulcerates

The ege of their lattuments, ought its lattoperatiments that mets but not lo as to bend early swhen piedled and harly moon the neil; atherate of this nature is and so make them become rough in the energines.

Popteform the infpendo hum ferori requinte for improveing the tellecles in the herma humoralia, or other cilments in the Crotum

and weith band, which

is roses ned before.

E. the fulpenders.

C. the purfe, in which the

croum refts

D. the dorred, these theweing that the part B. is to go through the purie part C.

18-3

EXPLANATION of TAB. V.

Fig. I.

Represents the semale sysinge, in its natural size; which should be made of the

best ivory.

A. The barrel part; which should be strong, and the barrel quite true; that the piston E. may move easy, and the whole not subject to

warp.

B. Is the lower pipe part; which should be solid ivory, and bored through with a narrow canal, like the dotted lines C. which may again open into various perforations at the end D. this should be screwed on exactly to the upper part, so as to make a good

joint F.

If the vagina is intended to be injected, various small perforations at the end are necessary, in order to make the injection search into the various rugæ in the vagina; but if the injection is designed for the uterus only, one perforation in the middle is sufficient, and the other orifices may be stopped up with wax. Fig. II.

Represents a common fyringe of ivory, made so as to fit in the capsula of the flexible catheter.

A. The fyringe.

B. The flexible catheter.

C. The filver wire, fuitable to the catheter.

D. The pipe of the fyringe, which may occasionally be forewed on.

Fig. III.

A streight bistoury; the best instrument for amputating the penis, castration, &c.

Fig. IV.

The crooked bistoury, guarded at the point with a kind of button, which is a continuation from the back of it, and serves instead of a conductor; the best instrument for the opening of fistulous canals; either a fistula in ano, or in the abscess in perinæum.

Fig. V.

Is an incision lancet for the opening of aposthumes in general; buboes, exulcerated

testicles, &c.

The edge of these instruments, ought to be of a smooth sharpness, but not so as to bend easily, when pressed statly upon the nail; a default of this nature is apt to make them become rough in the operations.

Fig. VI.

Represents the suspensorium feroti; requisite for supporting the testicles in the hernia humoralis, or other ailments in the scrotum.

A. is the waist band, which is to be tied before.

B. the fuspenders.

C. the purse, in which the forotum rests.

D. the dotted lines, shewing that the part B. is to go through the purse part C.

F. Is

EXPLANATION of PLATE V.

F. Is a front view of the

fuspensorium put on.

G. The hind view of the suspensorium; shewing that it will be no hindrance in purging, &c.

Fig. VII.

Represents the natural bigness of the suspensorial purie; which is nothing more than a double piece of linen cloth, flitched round the edge A. and open at the fore part B.

and hind part C.

This bandage has the advantage, that it will fuit immediately a patient of any fize, or the largeness or smallness of the scrotum, or any topic applied to that part; for the purse may be brought backward and forward, as is most agreeable and necessary. I a stalk. Fig. VIII.

Represents a suspensorium of the common form.

Fig. IX.

Represents some of the most common diforders of the bones.

A. Is the found bone.

B. The manner of an exfoliation.

C. The head of a bone in an hyperostosis.

D. An exostosis, particu-

larly a node.

E. An exostofis filled with a carcinomatous excrescence.

F. A bony excrescence in fome of the gummata, distinctly from the main bone, which fometimes is kept by

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