THE

MEDICAL MIRROR;

0. R,

TREATISE ON THE IMPREGNATION

OF THE

HUMAN FEMALE.

SHEWING

THE ORIGIN OF DISEASES,

AND THE PRINCIPLES OF

LIFE AND DEATH.

BY E. SIBLY, M.D. F.R.H.S.

OF TITCHFIELD-STREET, CAVENDISH-SQUARE.

ILLUSTRATED BY ELEGANT COPPER-PLATES.

LONDON:

PRINTED FOR THE AUTHOR, AND SOLD BY CHAMPANTE AND. WHITROW, JEWRY-STREET, ALDGATE; AND AT THE BRITISH DIRECTORY-OFFICE, AVE-MARIA-LANE, ST. PAUL'S.





PREFACE.

In this MIRROR, every Patient may behold, not only the true picture of his own diforder, whether bereditary or accidental---chronical or acute---but may alfo perceive the direct and obvious road to an immediate cure; particularly in relaxed and debilitated conftitutions; in lownefs of fpirits, and weaknefs of nerves; in Scrophula, Rheumatifm, and Gout; and in all complaints which have their fource in a tainted or corrupted state of the blood, in vitiated lymph, or in fpafmodic affections of the nervous fluid, irritating the mufcular fystem, the brain, and vital organs of the human machine.

The tender and blushing Female, whether married or fingle, may here discern the admirable structure of her frame, and its natural indispositions, with ample directions how to conduct herself, without wounding her delicacy by communicating her symptoms, her fears, or her apprebensions, to the rude scrutiny of pretended friends.

The country doctor and professional accoucheur, if he dare divest himself of pecuniary views--and the affluent lord or lady of the manor, if fraught with benevolence of heart---may here view a ready means to stop the anguish of the tortured patient; and to relieve the poor diseased A 2 husbandman, bufbandman, whose avocation subjects bim alike to the severities of all seasons, and to that infinite variety of sickness, arising from alternate cold, beat, fatigue, and want of proper food and clothing, which is every where felt among our village poor.

Above all, the uncomplaining feaman, who fubjected to the ravages of the fourvy, yet cheerfully braves the thunderbolts of war, and in spite of winds and waves keeps from our peaceful shores the devastations of our foe---and the poor foldier, who shrinks not from the fanguinary charge, but, regardless both of danger and death, bleeds in bis country's cause, are surely the first objects of medical care and comfort. Their perilous situation, in the present continental war, powerfully folicits us in their favour, draws out our compassion to feel for their sufferings, melts us at every new pitture of their distress, and urges us to feek the balmy oil of the good Samaritan, to heal their bleeding wounds. In this Mirror fuch a balm is difcovered, which, if applied in time to gun-shots, stabs, and wounds, may be the means of preferving to their relatives and friends, some thousands of valuable members of society,

iv

THE

JODGIE

Digitized by

THE

MEDICAL MIRROR.

OF THE HUMAN IMPREGNATION,

N contemplating the Works of Creation and the word of God, unfolded to us by the light of Revelation and Scripture; by analogy, reafon, medical experiments, and anatomy, we are enabled to trace the human æconomy farther in her retirement. and deeper in her occult retreat, than fome medical men are willing to fuppofe. Impoverished by a fathionable stile of living, and driven to a necessity of multiplying potions and fees, their object is not to heal, but to nourish the feeds of human infirmity. The truth of this remark has been but too often experienced; and indeed confessed by fome, in those awful moments, when diffimulation would be vain. Far be it from me to arraign the professional character in its general capacity; it is only the medical locusts that I wish to eradicate; and I am perfuaded every good man in the faculty, would with heart and hand affift me in fo laudable

Digitized by GO

ble a purfuit. It was principally with this view, and to affift private families in the moments of extremity, that I was induced to offer those simple modes of cure and felf-prefervation, fo amply dispensed in my edition of the Family Physician. And my prefent purpole being to make that invaluable family book still more complete, I shall here explain the nature of human generation, and the principles of animal life, that I may from thence deduce the origin of hereditary difeafes, and point out with more facility those which are accidental. And in this Treatife I shall endeavour to furnish my readers with such obvious directions for elcbewing the evil, and choosing the good, that, if resolutely followed, will not fail to preferve health and long life, and prove of no fmall benefit to future generations.

When God created Adam, he planted in him the feeds of that Divine Effence requisite to propagate the human life and foul. Theologists may contradict me; yet I will not fo much derogate from the wifdom and omnipotence of the Creator, as to suppose he should watch the impregnation of every human female, and by to many separate and distinct acts of his power, give life, fpirit, and foul, to the foetus. The Creator of Man, viewing with unbounded forefight the purposes before him, by one act of his omnipotence, blended in Adam all the faculties of the human and celestial nature; and, without any doubt, when he was formed one, in God's express image, he possessed the means of propagating, from his own effence, beings like himfelf. It is here difficult to affociate the imperfect ideas of human

Bigitized by Google

man reason with the mechanism of Divine Wisdom; and yet our conceptions may in fome degree unravel the mysteries of nature by causes and speculations, which, in proportion as they captivate our fenfes, and raife our admiration, excite in us a reverential awe of futurity. and a grateful fenfibility of the goodness and mercy of Him who gave us being.

. From the evidence of fcripture it is indifputably clear, that in the perfon of Adam the male and female properties were originally combined; as indeed we now find them in many species of the lower class of animals; confequently the expression of male and female. does not neceffarily imply two diffinct bodies. In Genefis i. 27, we read, that God created man in bis oron image, i. e. of perfection; including or containing the prolific or generating powers, which are diftinguished by the expression of male and female; and God bleffed them, i. e. these male and female properties, and faid anto them, Increase and multiply, and replenish the earth, i. e. with beings like Adam; for this benediction, and this command, were antecedent to the formation of Eve. as every one must know who reads the first and fecond chapters of Genefis.

In this plural capacity, therefore, Adam received the bleffing of God, when he faid unto him, Be fruitful and multiply, and replenish the earth, and subdue it; and have dominion over the fifh of the fea, and over the fowls of the air, &c. The fix days creation were now completed; and on the feventh day God refted from all his work; and having formed Adam, and breathed into his noftrils

trils the breath of life, *he became a living foul.* God alfo planted the garden of Eden, and put the *man* into it, to till it, and to drefs it; and God commanded the *man*, faying, Of every tree of the garden thou mayeft freely eat; but of the tree of the knowledge of good and evil, thou fhalt not eat of it; for in the day that thou eateft thereof, *thou (halt jurely die.* Gen. ii. 27.

Let us here remark, that all these transactions, injunctions, and commands, had passed before Eve was formed, or, in other words, before the male and female effences were feparated and made the effential parts of two diftinct perfons. Adam likewife, before this event took place, was appointed God's viceroy over all earthly things, both animate and inanimate; the very elements being made fubject to him; for "be was formed more noble than the angels, and crowned with glory and honour;" i. e. having the peculiar advantage of multiplying bis own race. He was, as to his external form, moulded of the celeftial æther; and therefore, previous to his fall, his body emanated rays of brightnefs and fplendour, fimilar to those which our ideas furnish of Mofes and Elias when they converfed with God. His reafoning faculty, and living Soul, were formed of the eternal effence or Tincture of the Divinity; being nothing lefs than what is termed the breath of God, that fpark of immortality which generates the foul, and is the diftinguishing characteristic between man and For, although brute animals inherit the five beaft. fenses, and possess an instinct to direct them in the choice of food, and to impel the propagation of their species; yet.

gitized by Google

yet these are only senses formed from the out-birth, or four elements of nature; and not from the effence or tindure of the Divinity, out of which the soul, the mental intellect, reason, sense, and understanding, are all formed, and transferred to posterity. "For with the powers God bath endued man, with the same powers shall be multiply bis race."

From the foregoing passages we are warranted to infer, that the original man was possesfed of his spiritual foul, and rational intellect, for the purpose of propagating the fame to all future generations. By the force of this rational intellect, or eternal fpirit, unclouded by the deformity of fin, he knew and perceived the nature and property of every animated being; and to exercife this intellect, God brought before him every created thing, to fee what he would call them; " and what soever Adam called them, that was the name thereof." He knew and perceived the nature and quality of all animals; and according to their defignation and fubjection to the external elements, fo he affigned them those characters which they have ever fince borne. Adam, however, in his primeval state, was not himself under the influence of celeftial or terreftrial elements; but, on the contrary, they were fubject to his controul. He was immortal; they corruptible. They fprung out of Time, and were elementated; he fprung from the limbus of Eternity; and into eternity the divine effence or fouls propagated from him, must indifputably return.

B

But

3000L

to

But man, thus created in honour and immortality. abideth not. The purpole of his creation was to fill the place of the rebel angels ; and hence Lucifer became his mortal foe. This fallen Spirit had entered the gate of Eden, and was preparing to feduce Adam; when the Almighty constituted the test of his obedience; for having endowed him with a free-will, an innate power of choosing good or evil, and of multiplying the fame, it was but reafonable to expect from him an implicit obedience, and an angelic race. He that is alone eternal and omnipotent, could not but forefee the Mofequent event; and it is his fupreme goodnefs to counteract evil, by preventing its work confequences. Forefeeing that the prolific tincture, or eternal effence of fecundation, might be contaminated by the malighant spirit of Lucifer, infusing itself into the mind of Adam, who then, inflead of multiplying an angelic race, would generate devils; and that were man to fall in this plural capacity, there was no counterpart, no feminine principle, through the medium of which the ferpent's bead could be bruifed, or a Saviour become inearnate :--- therefore, on a further furvey, after the works of creation had been completed, animals named, and man formed and compounded of the male and female tinctures, God faid, Gen. ii. 18. It is not good that the man (hould be alone; I will make him an belp meet for him; wherefore the rib, i. e. the feminine or conceplive effence, was taken out of Adam, and concentrated or moulded into a new being, called woman. The emission of this feminine effence or tincture, threw Adam

Adam into a deep fleep's yet when he awoke he knew that an effential principle had departed from him, and that the woman was bone of bis bone, and flefb of bis flefb, not having been created, but formed out of bimfelf, whereby he only retained the animating principle, or active power of generation; whilf the rudiments or feeds of future beings were configned to the matrix of the woman. ' Here then individual generation ceafed; and Adam, without the counter-part of bimfelf had no longer power to increase and multiply. Thus the two tinctures, or divine effences, animating and compounding foul and body, were divided; and by means only of a re-union or contact of those tinctures, could generation then, or now, be performed. It is on this ground that the male and female affections are continually turned towards each other; and that the defire of love and union fo ftrongly pervades every individual of the human race. Hence also the Tempter's reafon for beguiling Eve, and hence the feducing power of love, which determined Adam to fhare in all the horrors of her crime, fo pathetically and affectingly described by Milton, in his Paradise Lost.

The fatal confequences of the fall, we most fensibly feel, and univerfally deplore. The earth shook from The order of nature was quite inher foundations. verted. The ætherial and terrestrial elements, which before were fashioned in harmony, and acted in unifon, were now difcordant, intemperate, and furious. Brute preved upon brute, and bird invaded bird. The delicious fruits and flowers of Paradife, were exchanged for

10

for thorns and thiftles. The ferenity of a pellucid and finiling firmament, was convulfed by the thunders of an incenfed Deity, by forked lightnings; by contending feafons, by devouring winds, and impetuous florms. Whilft man, ungrateful man, from the privilege of holding these elements in subjection, became subjected to them; and hence subject to all the perils and misfortunes of his fallen nature,

Here, then, began the conflict of the human paffions, as violent and ungovernable as the elements themfelves. Here the toil and labour of the man, who fhould earn bis bread by the fweat of bis brow, and the tears and travail of the woman, who fhould conceive in pain and forrow, had each their fource. Here likewife, the dark catalogue of human infirmities, of difeafe, and death, had its too early date; yet to this æra, which gave birth to our manifold misfortunes, must we look for that benign fource of alleviation and cure, which the relenting hand of Providence has graciously afforded to those who will feek for them; for out of the ground bath the Lord caufed medicine to grow; and be that is wife will not defpife them; for with fuch doth be beal men, and taketh away their pains. Eccl. xxxviii, 4, 7.

Since, by his fall, man became fubject to the elements, from them he receives the conflictution of his body; but his reafoning intellect, and fpiritual foul, are derived from the pure effence or tincture of the Deity, originally infufed into the feed of man. To the violence and impurity of the elements, we owe the diforders of the body; to the temptations and allurements

of

of Satan, we justly impute the diseases of the foul. Yet by due attention to our reasoning faculty, it is no hard task to preferve health, or prolong life, to the term of its *natural* dissolution; while by the powers of the mind, and the light of the gospel, we may still avoid the poisson of fin, and become members of that glorious kingdom, which is the fure reward of the good and virtuous.

The imperfections and difeafes of the body, therefore, beginning with Adam, are in confequence tranfmitted to his posterity; and may be divided into here. ditary, and accidental. Hereditary complaints proceed from a certain defect of the animal powers, or imperfect state of the fanguiferous fystem, at the time of copulation. The accidental, confift of all fuch maladies as are communicated by the difcordant or putrid state of the elements, not only during the time the child is encompassed in the womb, but from its birth, to the lateft hour of its existence. And it might here be observed, that the increase or decrease of both hereditary and accidental difeafes, depend almost entirely on the purity or impurity of the blood. For if pure, in both male and female, at the time of impregnation, the foetus will be naturally ftrong and healthful. So likewife, if after parturition, and during life, care be taken to keep the blood in an uncontaminated and elastic state, we shall not only avoid the common effects of exceffive cold, heat, and moifture ; but escape that direful train of acute difeafes, communicated by putridity and infection; or, should they by chance attack us, the

13

the effect becomes flight and temporary. A circum, ftance this, which furely ought to weigh perpetually on the minds of those, who know how to value the bleffing of health, or who would wish to live a long, an active, and a pleasant life. This is therefore a speculation of that high importance, that I shall now shew how hereditary complaints are communicated in the act of copulation---how increased and fostered in the womb---how accidental diseases grow up and follow, and how both these enemies to the health and happiness of mankind may be prevented or overcome.

In that union of the fexes to which we are inftinctively impelled; or rather, in the union of those effences or tinctures peculiar to the generative organs of the male and female, in the contact of which the first moments of human existence commence, the most whimfical and absurd theories have been set up. No branch of physiology has been more exposed to censure and mistake. While the phenomena of the heavens, of the earth, and even of the human mind itself, are traced with a steady hand, and with all the dignity of philosophy, the functions of the human body, in health as well as under disease, though expounded with a profusion of fantastical erudition, appear almost in as much doubt and darkness as in the days of Paracelfus.

Let us then proceed to review the mode by which generation is accomplished. I have in my former writings explained the Systems of Buffon and of Lew₇ enhock, in their speculations on the animalculæ found in the feed of man, and in that of brute animals; I have

have also, in the Medical Part of my Family Physieian, shewn the mode by which generation is performed, fo far as relates to the action itself, and to its general effect. I shall now consider it in a new light, as it concerns the propagation of foul and body, and of familytemper, likenels, and difease; but as the female organ is so materially concerned in the mysterious act of generation, and in all its confequences, I shall here take up the reasoning of a late ingenious author, whose opinion of the action and powers of the female generative parts, exactly coincides with my own.

The extremity of the uterine fystem, without the hymphæ, feems not, except from its aperture and the lascivious susceptibility of its texture, materially requifite to generation. Immediately within the nympha, the vagina, or great canal, of the uterus, begins. Before coition has disturbed its proportions, it is genefally about five or fix inches long; and when thrown into a circular form, without violent distention, its diameter is about a fixth part of its length. But as, in coition, the vagina is the immediate receptacle of the penis, it is capable of great diffention, and may be rendered of very confiderable capacity. In general, however, after frequent contact, this canal becomes much horter, but more proportionably increased in its diameter; yet being contrived by its organization for the purpose of exciting titillation and pleasure, it can and does accommodate itself to whatever fize is neceffary closely to embrace the penis in the act of copulation.

· At

Digitized by Google

16

At the upper extremity of this canal, the uterus or womb is feated. It is of a pyramidal form, with its apex towards the vagina. Its greatest length, in virgins, is not more than two or three inches; and its width is fcarcely one; its internal cavity must therefore be very fmall. It is connected to the vagina or great canal by a paffage fo fmall, that a bodkin or ftilet cannot be introduced without much difficulty. In the broad or upper extremity of the womb, the ovaria are feated. Their substance is spongy, and they contain an indefinite number of veficles of a duskish semitransparent quality, the involucra of which are diftinct, and fimilar to the general fubstance of the ovaria. Thefe vehicles are the ova or eggs, which contain the rudiments of the foetus, and which must absolutely be impregnated with the male feed, before it can be poffible for generation to take place.

Now it has been, and is, the common opinion, that when venereal embraces take place, the whole genital fyftem of the male being thrown into action by libidinous defire and violent friction, by this exertion the femen is thrown with confiderable vehemence from the penis, and is either forced through the mouth of the womb, and attracted by the ovaria; or, that it is received by the Fallopian tubes, and conveyed by them through a variety of convolutions, till by their fimbriæ they are conducted to the ovaria, in the manner I have already fully defcribed in the Medical Part of my Family Phyfician; all which tedious and complicated procefs is alledged to take place in the *inftant* of coition. Others

Others again suppose, that the internal orifice of the womb becomes open and pervious during the exertion and enjoyment of copulation, and that the glans of the penis abfolutely pass into the cavity of the womb, and eject the feed immediately upon the ovaria. To each of these theories there appear insuperable objections. In refutation of the first, we need only observe, that the vagina, from its ftructure, and from its organization in the act of venery, is difposed strongly, and in every part, to embrace the penis; and as the glans muft thereby be clofely furrounded, although it reaches not in every perfon to the furthest limits of the vagina; the flight and momentary impetus of the femen will thus be very effectually refifted, if not totally fubdued. If the penis be not of magnitude fufficient to occupy the vagina to its full extent, the unoccupied space must be fomehow diftended; and, let this vacuum be what it will, its refiftance must be effectual; and, if it be not diftended, the power or preffure which occasions its collapse will over-balance the impetus of the femen. But supposing the virile member in all cases to be for exactly proportioned as to occupy the whole length of the uterine canal, which however we know is not the cafe, yet from what principle shall we ascertain that the feminal tube of the penis, and the apex of the womb, shall be made to exactly to correspond as to become continuous? The femen, in the event of coition, is doubtlefsly thrown out by the penis with fome force, though this force will always depend upon the vigour of the male organs, and therefore must vary from the

C

17

loweft

18

7

lowest to the highest degree of vigour of which those organs can be fusceptible. But even allowing the glans penis and apex of the womb to fall into exact contact upon due penetration, and that the male feed is always ejected with confiderable force from the penis, and the vagina to be no barrier to the progress of it, yet how is it to force its way into the cavity of the womb? The aperture which leads from the vagina or great canal into the womb, is in fact no aperture at all. During menstruation, indeed, it is pervious; but even then it is only capable of admitting a very fmall probe; and this is no argument that it is naturally, and at other times, pervious. How often too has this aperture been entirely blocked up by preternatural obstructions, and conception neverthelefs taken place? Inftances of this have often occurred; and the precifion and authority with which they are recorded by different practitioners. Jeave no room to evade the argument. Hence this mode of impregnation appears not only highly objectionable, but utterly imposfible; having no correfpondence with the human ftructure, or with the economy of Nature.

After what has been faid, it may appear idle to profecute any farther refutation of the progress of the male feed by the Fallopian tubes, or through the mouth of the womb. But as authors of the greatest respectability have believed in its progress through the tubes, and tell us they have even seen it there, it may not be improper to enquire how far this is ascertainable. The Fallopian tubes, through which the semen is faid

to

to pais, originate, by very minute perforations, through the fundus of the womb; and, encreasing rapidly in their diameters, their capacities, when dilated, may be about the third part of an inch where they approach the ovaria. Here, again, they fuddenly contract, leaving only a fmall opening; while their main fubstance is still continued, and is expanded into that plaited or jagged fringe called the fimbriæ, which is contiguous to the ovaria*. I shall now ask, by what law in nature, by what effort of it, is the male femen to be conducted through this conical and convoluted canal? Can the femen now possess any active force, to introduce itself through the rigid perforations of this organ, and to overcome the collapse of the tubes ? The stimulating power of the femen must foon be lost in a vessel which it has not power to diftend ; and we cannot fuppofe it capable of acting in a direction completely opposite to what is the acknowledged office of the tubes. It must be by irritability that the ovum is conveyed into the uterus from the ovaria; and we know no vessels in any part of the body whole action is double and contrary. This fyftem therefore favours of great improbability. But we are told, by fome, that they have actually feen the male femen in its unaltered state, lodged in the Fallopian tubes. These fagacious authors might as prudently have affirmed, that they had feen fnow upon the canal in Hyde-park at midfummer. They did not

³ See the Medical Part of my Family Phyfician, page 17, 89, 97, &c. where all the parts, both male and female, are anatomically deferibed.

C'2

know,

Digitized by Google

20

know, or did not choose to recollect, because it made against a pre-conceived opinion, that the human feed, when fubjected to heat, especially to fuch a moift and natural heat as those parts constantly afford, foon loses its fpiffitude and tenacity, and becomes very fubtilly Befides, it is univerfally fluid, and almost colourles. acknowledged, that a confiderable part of the femen is almost always, immediately after coition, rejected by When we attend to the many inftances the female. of credulity and imposition in the theories of generation, we need not marvel at the aptitude and facility with which pretended difcoveries creep into notice, and the folemnity with which they obtrude themfelves into fystems.

All the foregoing arguments against the possibility of a pervious communication between the vagina and the uterus, are also conclusive against the fuggestion, that the penis in the act of coition penetrates into the Nor is the affertion of those cavity of the womb. who contend that this orifice, by the turgidity of the parts during coition, naturally opens and dilates itfelf to receive the male feed, marked with the leaft degree of probability. How is this dilatation of the orifice to be effected? Though the whole uterine fyftem, during the venereal act, be rendered ftiff and turgid by animal defire and influent blood, yet it is more probable that this turgidity would rather compress than dilate the orifice; and the structure and texture of the womb feem exceedingly unfavourable to fudden dilatation by any means whatever. In an unimpregnated

or

or virgin flate, the womb is fo fmall that its fides coalefce or adhere together, and it has no hollow appearance whatever; though, from the texture and elasticity of its fabric, it may be thrown into a globular form. which will conftitute a cavity. But in coition, with all its occult and uncommon phenomena, what charm have we left to overcome this coalescence, and form this cavity, by opening or feparating the membranous fides of the womb? Will it here be faid that the forcible ejection of the male femen will effect this purpole, or that the fliff and turgid flate of the penis itfelf will force its way into a fabric fo remote and delicate? Though females may entertain fanguine ideas of these things, we must suppose that the vigilant anatomist; toiling through the unalarming and chilly organs of the dead, ought to furnish a more rational hypothesis, whence to deduce the active principle and admirable process of the human impregnation.

Authors have been always eager to effablish the certainty of a confiderable afflux of blood to the fee male organs, and confequent turgidity during the voluptuous communication of the fexes; and this has been a wonderful prop to many absurd conjectures. This afflux, and confequent turgidity, they suppose originates, like the erection of the penis, from the strength of libidinous ideas, and other locally irritating causes; and is intended by nature to induce a tension in the female organs, that the progress of the femen may thereby be facilitated. This tension, again, they suppose induces fome kind of constriction, which is

faid

Digitized by Google,

•

faid to support the action of the different parts of the genital fystem, but particularly of the Fallopian tubes. These tubes, it is faid, are remarkably diffended, during coition, by the blood rushing into the numerous weffels which creep between their coats, by which means they are crected, and their fimbriated terminations applied to the ovaria; and it is gravely added, that diffections of gravid women, and the comparative anatomy of brutes, corroborate the opinion. Were it not for the ferious refpect with which this anatomical obferration hath for a length of time been favoured, no body furely would be at the pains of detecting the churdity. Allowing that this turgidity, with all its concomitant circumstances, really happens in the living subject, how can it possibly exist in a carcase flaccid with death, and, as is always the cafe in a human anatomized body, where death must have taken place fome confiderable time before ?

But this turgidity, though it fometimes may happen, and yet in a degree very limited to what is alledged, does not always happen; and, when it really does take place, it feems rather to be the companion and promoter of libidinous gratification, than a principal and effential promoter of conception. To many women the embraces of the male are extremely, if not completely, indifferent; and to fome they are abfolutely difagreeable; yet even these women are prolific. There is no difficulty in fuggesting a very sufficient and natural reason why the parts of the female, directly subjected to the action of the penis, during the venereal congress, should

should become turgid with influent blood, and fomes times be constricted. Nature, though the feems in general unfriendly to exceffive luft, yet fometimes permits it; and these are the means she feems to have appointed for heightening it. Befides, it is proper that the animal inftinct, which prompts the reproduction of the fpecies, fhould not be disappointed in its gratification, however brutal these fensations and ideas may appear to the purified philosopher. These means then, however they may contribute to the mutual fenfibility of the fexes, in the voluptuous gratification of animal pleasure, appear to have no real influence on the procels of generation, after the venereal congress has ceafed; nay, we have reason to believe that their action or influence does not extend beyond the limits of the vagina, except in common with the reft of the general fyftem, even during that congress. If an afflux of blood to these parts were always to be attended with these effects, what violence must the ovaria be exposed to by reiterated coition, and by every return of the menstrual discharge ! During the menstrual afflux, a very confiderable diffention must furely take place over the greatest part, if not the whole, of the genital fystem; and, as this turgidity is the principal reason alfigned for the action of the tubes, by what means are the fimbriæ diverted from exercifing those functions which turgidity, though from another caufe, at another time fo fuccefsfully inftigates? Alfo how happens it that grateful copulation is not always productive, and the contrary? that the fimbriæ, in every venereal act, do

24

111

do not operate upon the ovaria, and thereby produce more fætufes, or a wafte of the ova? and that the organs themfelves are not incapacitated, or diminished in their energy, by such repeated exertions? We have every reason then to conclude, that the tension and constriction of the female organs, induced by the afflux of blood during coition, if of consequence, are intended folely to promote animal gratification; and that they have no direct influence on the actual progress of the femen through the above-described communications to the ovaria.

Upon the whole, it is certainly no way equivocal, that the femen cannot, in any manner, be applied to the ovaria by means of the fimbriæ; that it cannot afcend or advance through the convolutions of the Fallopian tubes; that it cannot divaricate and traverfe the compressed uterus; and that it cannot even operate a passage through the rigid bulwark of the cervix uteri. The probability of the progress of the aura seminalis through the fame paths is deftroyed by the fame arguments; and the whimfical opinions founded on the prefence of animalcules in the femen, and on the organic bodies furnished by the semen of both sexes, and uniting in the uterus, as far as this alledged aperture is concerned, must stand or fall by the fame fate. It may feem however strange, that a doctrine fo ancient, and fo univerfally believed, fhould be fo eafily overthrown; and it may furnish, to the speculative reader, unfavourable ideas of the prefent state of medical literature. He may indeed wonder, that, though every **f**cience

feience has become rational and refpectable by the exertions of their cultivators, medicine alone has been able to refift the diligence of a thoufand years; although it has been wrefted from the hands of nurfes, and its profeffion become dignified and lucrative, it can icarcely be faid, at this day, to afford one unqueftionable idea. In the volumes of physiology, compiled by the most learned physicians, and drawn from the most learned fources, will the unconcerned philosopher find the dogmata of medicine confistent with nature, or with common fense?

But fince the femen, in fome shape or other, contains that animating principle which is indifpenfibly neceffary to generation; and fince the ovaria as indifputably produce fomething from whence a living creature is to be evolved, it becomes demonstrably clear, that the influence of the male feed must be powerfully incorporated with the female, and directed to the ovaria, before this effect can poffibly take place. We have already feen how this cannot happen; let us now endeavour to point out a rational medium by which it may be accomplished. For this purpose we must again return to the vagina, or canal of the uterus, as being the principal organ on the part of the female, which actually contributes to propagation; and without the full and complete use of which, impregnation cannot take place. It therefore demands a very minute and attentive investigation.

The vagina is elastic, and fomewhat membranous, composed of muscular fibres, blood-vessel, nerves, and

Ð

lymphatics.

26

lymphatics. It commences, from beneath, at the nymphæ, and rifing obliquely about five inches, is loft upon the uterus. Its capacity is very different in different fubjects, and in no very diftant periods of life in the fame fubject. A very respectable anatomist finishes his description of it by faying, it is "membro virili secundum omnes dimensiones accommodabilis." Its inner membrane, though very uneven, is delicately fmooth, and, from its nervous texture, exquifitely fenfible; the outer membrane is more fpongy and mufcular; and, the whole body of the canal is very plentifully fupplied with blood-veffels, nerves, and lymphatics. We know little more of the lymphatics of these parts, than that they are more numerous proportionally than in any other part of the body. Those which originate in the exterior parts of the female genital fystem, traverfe the inguinal glands, while the deep-feated ones take a much more direct course to their place of union with the lacteals: but of these we shall be more particular, when we adduce our obfervations in favour of a very powerful abforption fubfifting in the vagina.

The entrance into the canal of the uterus from without, is guarded by the nymphæ, which form an eminence on each fide, fo peculiarly conftructed and arranged, that we must think lightly of the physiologist who could fuppofe them to be only appendages in office to the urethra. Indeed, as nature frequently operates more than one end by a particular structure, we shall not pretend to limit the fecondary or inferior offices which the nymphæ may promote; but we fee much reafon

Digitized by GOOGLE

reason to believe them created to affist powerfully in preventing the fpeedy escape of the male semen, and thereby exposing it longer to the action of the absorbent fystem. A multitude of circumstances corroborate this belief; and it will not be impaired by the allegation, that these ridges by no means constitute a regular and complete valve. Immediately within this barrier, a structure, on the fame principles as those of the nymphæ, but more elegant and powerful, commences; and it is continued over the furface of the vagina, gradually growing finer, till it is loft in fmoothnels near the upper extremity of the canal. This structure is the rugæ of the vagina, fo accurately drawn and defcribed by Haller and others; but degraded by fome anatomifts, who mark it only as useful in exciting venereal enjoyment, or admitting expansion during coition and par-It is infinuating a mean and difgraceful returition. flection on the important order and operations of nature to fuppofe, that thefe rugæ, which are not cafually arranged, but are regulated with as much precision and uniformity as we can trace in any other part of the general fyftem; I fay it is nugatory and prefumptuous to affert, that this intricate, extensive, and beautiful, arrangement, has been fo minutely laboured for no other purpofe, but merely to excite a greater titillation during the grofs and libidinous commerce of the fexes, and a greater extension during parturition. This ftructure may indeed promote fecondary purposes; but it is intended for much nobler ends. Had thefe rugæ been conftructed merely for fimple contraction and dilatation,

D 2

they

they would have covered equally the whole furface of the vagina, which certainly does not happen; neither, if these had been their principal uses, would they be so foon and so easily obliterated. We believe, then, that the rugæ of the vagina are thus contrived principally to protract the semen in that viscus, after the penis is withdrawn, and thereby to favour absorption; especially as the qualities of the semen coincide wonderfully with these intentions.

The femen, as it is fecreted from the blood in the tefticies, is very different from that heterogeneous mixture which is expelled by the urethra in coition; though, by the alteration, its fecundating quality is not improved. When it is conveyed into the veficles it is of a thin confiftence, of a pale yellowith colour, and little in quantity. In these vesicles it is fomewhat inspissated, and its colour heightened; and, after it is mixed with the liquor of the proftrate glands, it becomes still thicker, and of a more whitish colour. This confistence which the femen acquires in its progrefs from the tefticles, may produce other flight properties; but the principal intention of it feems to be, to correspond more effectually with the abforbent power of the vagina: for thus, by the increased tenacity of the semen, the remora of its fecundating part must be protracted in the vagina, while at the fame time the abforbents are allowed more time to attach those active fubtle parts intended to be carried into the circulating fystem. We may add here, in order farther to confirm the opinion concerning the use of the tenacity of the semen, that.

that when too little of this mucilage is derived from the glands, or when it is of a depraved or thin quality, the whole mixture escapes the machinery of the vagina " too rapidly, and hence coition becomes unproductive. This is the feminal ferofity, as it is called, held to be one of the few caufes of sterility in man. And we may add farther, that when the confent and power of procreation begins to fail on the part of the woman, the cremulations of the vagina are then always vifibly decayed, whether affected by the advances of age, or by imprudently-reiterated venery. But what are we to think of a very respectable author, who gravely tells us, that the femon, by Atagnation, and by the addition of the cream-like liquor of the proftrate glands, is better fuited to the projecting effort of the urethra in the event of coition? Indeed, it is not to be denied; that the increase in quantity of the seminal mixture may enable the projectile power of the urethra, with its aiding muscles, to act with greater efficacy; but a boy would laugh in my face were I to tell him, that by adding to the weight and tenacity of water, his fquirt would throw it much farther. To act in concert, then, with these unquestionable qualities of the semen, the furface of the vagina, by means of its ruge, from their elevation and arrangement, must have a very confiderable effect in heightening the remora we have defcribed, No doubt, if nature only had in view the prevention of the regress of the semen, we might have met with a much fimpler mechanism; but as to this part very different offices, and all of them material, were allotted,

Digitized by Google

it

it has been intricately qualified for them all. Thus, upon the whole, we fee an admirable disposition in the femen, and in the furface of the vagina, to facilitate and promote the action of the absorbent veffels.

Though the absorbent system has not been traced with the fame minuteness and fuccess which have followed the investigation of the fanguiferous fystem, it is however known to be very general, and very powerful, and it is remarkably fo in the cavity of the pelvis. How, otherwife, is that effusion which is confantly going on, in order to lubricate the whole genital fystem in the female, and to prevent the coalescence or concretion of its fides, refumed ? In those unfortunate females whofe menfes have taken place, but in whom likewife the expulsion of which has been prevented by the unruptured hymen, or by unnatural membranes blocking up the passage, much of the blood has always been reforbed; and in those whose difease has existed long, and where the thick parts of the blood have begun to be broken down, the colluvies has been reforbed, and a train of fymptoms induced, not to be accounted for by the mere turgidity which this obstruction occa-The infection and progrefs of fyphikis, or fioned. confirmed lues, not only establish the certainty of a very rapid and powerful abforption in the vagina, but also exhibit the power and influence of the irregularities of its furface. It is furely very evident, that the chief application of the venereal virus, whether in gonnorrhœa or fyphilis, but especially in gonnorrhœa, must be near the farther extremity of the vagina, though

though there can be no doubt but the ulcerated glans may often affect the exterior parts by its introduction; but in a confirmed lues, the fundus of the vagina is rarely the feat of ulcer, and it is never affected in gonnorrhœa. Here the furface of the vagina being mostly fmooth, the poifon runs downwards, till, falling upon the rugæ, it is there intercepted and retarded. Here then the poifon is multiplied, and leifurely applied to the mouths of the lymphatics, through which it is carried into the blood; where, affimilating together, it contaminates the whole mafs. Though the progress of the fyphilitic poifon is not always thus regular, the variations do not affect this opinion. When the lymphatics, and their glands, are vigorous and eafily permeable; when the application of the venereal virus is within the nymphæ; and when it is fufficiently active. the first symptoms of difease arise from general contamination; and was this poifon always very mild, and taken up by the abforbents within the nymphæ, there is no doubt but the whole mais would almost always be difeafed, without much chance of ulcer or preceding bubo. But there are many circumstances which tend to retard the fpeedy abforption of fyphilitic virus, even when it is extremely active; and, among thefe, the inflammation which in general it must induce, is not perhaps the leaft confiderable; but these cannot affect the abforption of the feminal fluid of the male. The fyphilitic virus too, may, from the laxity and lubricity of the vagina, (a circumstance very general in immodest women,) not only escape absorption, but may be car. ried

32

ried outwards, to exercife its energy on the external And it is from these reasons partly, that imparts. modeft women are fo little difposed to conception, and that modeft women, when fubjected to venereal infection, generally experience the more latent and violent fpecies of this difeafe. And as a greater furface of abforbents is exposed in the female to the contaminating influence of the difeafed male organs, and as the greatest part of the female genital fystem has a much readier intercourfe with the blood than through the inguinal glands, we meet with this fpecies of fyphilis much oftener in women than in men. The cure of fyphilis, too, by fpecific remedies introduced into the vagina, fully demonstrates the Arength and activity of the lymphatics in this canal. Is there then a ready and eftablished communication, for disease and for its remedies, between the vagina and the general circulating fystem of the blood, while a mild fluid, yet possesfed of activity infinitely beyond that of any poifon, and created for the highest and best of purposes, is not permitted to traverse the fame channels? Many other corroborating circumftances, both in fact and in analogy, might be adduced here, were not these arguments in themfelves conclusive.

In a due state of health there is what may be called an intestine motion in the blood, occasioning and promoting its commixture, as well as its separation. In all general diseases, and even in many which are called local, this intestine commotion is heightened, diminiss ed, or deranged; and in the exanthematous or eruptive disorders,

33

diforders, it must be remarkably fo. In fyphilis, though this difeafe is not directly exanthematous, there muft be exceffive disturbance, and certain depravation prevailing throughout the whole fystem, before fuch complete destruction can be brought upon it. In these cafes of difeafe --- where vehement infection, with its fatal confequences, is overturning all before it, we have always found, that milder infections could make no Hence the practitioner never hefitates to impreffion. ingraft the fmall-pox, though the patient may have already received the difease, either by natural contagion, or by prior inoculation : hence a milder difeafe is often removed by a feverer one; hence flow confumption is always retarded, and often overcome, by fecundation ; and hence fecundation itfelf, as the feebler flimulus, is often prevented by the anticipating diffurbance of fyphilis, or of fimilar difeafes vehemently pre-occupying the circulating fyftem. It is this anticipation, this prior pofferfion, and change in the circulating bloody which reafonably and emphatically accounts for the want of influence in the human femen upon the female after impregnation has fully taken place, or while the mother is providing milk. And we might account for the production of twins, triplets, and those rare inftances of more numerous progeny, from the fame circumitances. One, two, or more, ova may indeed be fo ripe as to meet completely the fecundating impulfe of the male femen at one time; and it is perhaps more Arange that the different focules should be maturated and expelled about the fame time, than if a greater period

E

34

period intervened between the expulsion of each; and might not a fecond intercourse of the fexes be fuccessful, when the female circulating mais was not fully pre-occupied by the influence of the first? But the extent and influence of prior infection, or impregnation of the blood, has been better observed in the venereal, than in any other difeafe, or natural occurrence. Women whole general fystem is vitiated by the fyphilitic virus, are always incapable of conception; or if the vitiation is not complete, but in a flight degree, an imperfect fecundation may take place; but its product fails not to demonstrate the want of energy, and the unqualified state of the mother, from whence it drew its principal arrangement. These ideas are corroborated by the mode of cure adopted in the circumfances we have been defcribing, and by the general effects of it.

Thus we have endeavoured, and we hope with fuccefs, to establish the truth of a strong power of absorption in the genital system of the female, originating in the vagina; and a disposition in the whole mass of blood, to be affected according to the properties of what may be mingled with it. And as, from the present state of anatomical knowledge, we have no right to suspect any other mode than this of absorption, by which the unrejected and finer parts of the femen can in any shape, and with any effect, be determined towards the ovaria, let us see how this can be farther associated by what we may suppose to be the effect of

the

35

the abforbed femen, and the future appearances of impregnation.

In human creatures the evolution of all their parts is gradual, and the work of time. From the moment in which the ovarian nucleus receives the vivifying impulse from the semen, till the period of puberty; from the dawn of its existence, to the completion of its figure and its powers; its alterations are fo many, and fo varied, that our idea of the germ is not recognifable in that of the infant, and our idea of the infant again is loft in that of the perfect animal. A gelatinous particle, without necessary form and texture, becomes a ftupendous fabric, fo intricate and elaborate, though at the fame time perfect and complete, that human ingenuity and reason have toiled almost fruitlessly for thoufands of years in inveftigating the progress. It has indeed been averred by fome, that all the different organs of the animal in its complete flate are original and diftinct in the embryo, and are only unfolded and rendered more evident by its increase. This furely is not the cafe. The animal is certainly endowed with the power of completing itfelf; and can, from inorganized parts, produce an organized ftructure. The parts are only evolved and perfected as they become ufeful in the different stages; and the evolution of many of them can be prevented without the destruction of life, or excessive prejudice to those already evolved. If the different organs or rather principle, are at first perfect, why are those effects which depend upon them not per-Why is the flate of infancy a flate of idiotfect also? Eż ifm?

36

ifm ? why is the temper of youth capricious and flexible ? and why are the temper and paffions of the adult but barely differnible in the preceding flages ?

As we are of opinion then, that the different organs are matured only as they become requisite and neceffary; confequently, we believe the evolution of the generative organs in both fexes must be among the last efforts of the increase and completion of the body. This evolution could not have taken place earlier. If it had, the mind must have been affected by these impulfes which announce the maturation of these organs, by which we know the mind, body, and foul, are connected. In the male, the foundation and powers of maturation, of that ftrength, and of those more rational qualities which belong to him, are laid to ripen with puberty : hence communication with the female, before thefe are finally arranged and fecured, proves inefficient, and entails upon him debility both of body The fame thing holds, as far as the fame and mind. ends are concerned, with respect to the female; and we cannot suppose that nature could be fo idly eccentric. as to punish the female with a disposition or propensity to procreate, before the body was capable of undergoing the various diforders and dangers of pregnancy and parturition. For the fame reafons, none of the ordinary organs of fense are qualified to receive or communicate diffinct impreffions, till the brain, the feat of the foul, as the heart is of life, has acquired those properties which must fit it for its arduous offices. It is only when the different organs of fense have been completely
completely evolved, and all their parts found and juft, that the power of the mind is effectuated and eftablished. This faculty, though it feems effentially different from reason, is no doubt the origin of it; for the extension of common sense, from memory, or rather from comparison, and what may be called the balance of the fenfes, conftitutes what is called reafon and judgment. While the organs are incomplete. from infancy, or from difeafe, their communication with the understanding is also incomplete. Those who have been born blind, or whofe eyes have been deftroyed in infancy, before they were become useful, have none of those ideas which depend upon the eye; it is the fame with the deaf, and in all cafes of ideas depending upon one fenfe: and we may add, the early caftrated have no comprehension of, or propensity to, the gratifications of love. Do not these things show---and a thousand other circumstances might be adduced to Arengthen the proof---that the mind acquires its powers only as the parts of the body are unfolded, and confirmed; that the body is perfected only as the mind is qualified to receive its impressions; and that the parts of the body are perfected by one another?

During infancy and youth, ftrictly, the ovaria are fimple inorganic maffes, partaking of no more life than is barely fufficient to fultain them, and connect them with that energy and progrefs of conflictution which are afterwards to unfold all their properties. At the period of puberty, thus denominated from the change which takes place in the genital fystem at this time of life,

this

38

this progress and developement of the ovaria is finished by nature; and these bodies are generated, and completed within them, which will exift without impregnation by the male, but which this impregnation alone can finally maturate and evolve. That these bodies are not generated at an earlier date, anatomy as well as reason, founded on the foregoing arguments, asfure us; and, that the ova of all the foctufes, which the female is afterwards to produce, are generated at that time, feems equally certain. Though this change in the ovaria is the most effential, the whole genital fyftem alfo undergoes a very material change. The fimple alterations of structure and dimensions in the different parts of this fystem, though they are necessary and fubfervient to generation and parturition, yet they are not fo material, either in themfelves, or to our purpose, as to require a minute description. This, however, is not the cafe with refpect to the menfes, It is chiefly with a view to the nutrition of the foctus that this extra-fanguification in the female is provided by nature ; which is determined to the genital fystem, in the fame manner as the other fluids are determined to other outlets; but as the continued drilling off of this extra blood would be exceedingly inconvenient and difgusting, nature has prepared, as it were, a ciftern for its reception. What may be fufficient to bring on the hæmorrhage, however, is only accumulated; and the general redundancy, induced by the obstruction and accumulation, fubfides gradually as the hæmorrhage goes on. This is the manner of menstruation in the unimpregnated

unimpregnated female, and these are the reasons why it assumes a periodical form. In the impregnated female again, the preparation of extra blood ftill continues, but its confumption becomes very different. By the extension of the uterus, and by the waste occafioned by the nourishment of the foetus and its involucra, the furcharge, or extra preparation of blood is nearly balanced, or is taken up as it is prepared; and hence the periodical efforts are almost lost. In the first months of pregnancy, however, the uterine fystem is not always able to confume the furcharge of blood, and thereby take off the periodical effort; and hence it is that the lofs of the foetus happens most generally in the early months, and at the ufual period of the menfes, unlefs fome accident has fupervened. And it is nearly from the fame reasons that miscarriage is so often to be apprehended in the latter months of pregnancy, and that the foctus is afterwards expelled from the womb. When the foetus has acquired all that bulk and ftrength which the capacity and powers of the uterus can confer, and when a change of circulation and mode of life becomes necessary to it, the uterus and foetus become plethoric; a general accumulation fucceeds; and the periodical efforts of the menfes return. During the middle months of pregnancy the foctus is in a flate of rapid growth, and is capable of confuming all the blood which the mother can furnish; but there is neither room nor waste, in the latter months, for the blood which the mother is conftantly pouring in; and hence arifes that plethora, both in mother and child, which is

to infligate the effort to parturition, which occasions the effusion after parturition, and which is to supply the extended circulation of the born child.

But besides the utility of menstruation to the foetus, there is a very evident connection between it and impregnation. To fpeak of it as a proof of the ripened qualifications of the female, is to fay nothing; it's immediate action is effential to conception. In the human female, it is well known, that coition is almost only fuccessful immediately after this evacuation has subfided. Who will reconcile this --- and it is no modern and groundlefs obfervation --- to the confequence which has been afcribed to turgidity and tenfion, which we have already adverted to? Almost every woman who has frequently undergone pregnancy, and who has attended judicioufly to the phænomena of that fituation, calculates from the last ceffation of the menses. At this time, or rather very foon after, the plethoric tumult of the general fystem is completely fubfided, and the abforbed femen gets quiet and unanticipated poffession of the circulating blood; and at the fame time the gradually returning plethora promotes its action, and perhaps its determination to the ovaria. When the menses are interrupted, or profuse and frequent, impregnation feldom takes place; and it admits not of a doubt, that when the determination of this blood is towards the mammæ, in the form of milk, coition is unfuccessful; and as foon as its determination to the uterine fyftem is reftored, other things being favourable, copulation fucceeds. We may add as a known fact, that continuing

nuing to give fuck after the ufual period, will occupy the plethora, and prevent its determination, in the form of blood, to the uterine fystem. It is an additional reproach to the groffnefs of human nature, that this practice hath too often been put in execution, in order to obviate conception. Sometimes there is reason to believe, that conception has taken place while the plethoric determination to the breafts continued. I am rather disposed to believe, that in such cases its return to the uterine fystem was recommenced; for about the fame time the milk generally lofes its alimentary qualities, and gradually dwindles away.

But we have faid enough to defcribe and fubstantiate those parts of the female, which puberty has prepared for generation. We shall now confider its operation on the male. It need not be repeated, that the feminal fluid is an exceedingly penetrating and active fluid. Its effects, after it is generated, even upon the male, demonstrate its activity and influence, far beyond the precincts wherein we believe it to be accumulated. After puberty, the fecretion of it, during even indifferent health, is continually going on; and those collections of it in its refervoirs, which are not thrown out by venereal exercife, or by other means lefs decent, are reforbed and mingled with the general mais. What is actually reforbed about the period of puberty before the fystem has been habituated to it, or faturated with it, produces very curious and remarkable effects over the whole body. The flesh and skin, from being tender, delicate, and irritable, become coarfe and firm; the

the body in general lofes its fucculency; and a new existence seems to take place. The voice, a proof of the tension and rigidity of the muscular fibre, losing its tenderness and inequalities, becomes ungratefully harsh; and the mind itself, actuated by the progress of the body, and forgetting all its former inclinations and attachments, acquires diffinctly new propenfities and paffions. The changes are not entirely the effect of ordinarily progreffive age and ftrength; neither are they promoted by intercourse with the world; for caltration will anticipate them, and premature venery, or even gradual familiarity, and early onanism, will diminish them. Boys who have been subjected to castration never acquire either that ftrength of body or capacity of mind which dignifies the complete male; and the fame cruel and unnatural operation performed on brute. animals diminishes their bodily strength, their courage, and liberty, and the fierceness of their temper.

If fuch are the effects of the feminal fluid when reforbed by the male, how powerful muft it be when fuddenly mingled, and most probably in greater quantity, with the circulating fluids of the attracting female! Coition, or rather the absorption of the feminal fluid of the male by the female, even when not fucceeded by impregnation, induces an alteration very general over the female fystem. The local influence of which may be inferred from the general change which it is capable of inducing during complete health; from the relief which it effectuates in many species of difease; and from the general vivacity and cheerfulness diffused over

over the whole animal frame, It would be prolix to. go over every difease which will warrant these opinions; yet in the eye of common observation, the fallow and inanimate female, by coition, often becomes plump and robuft, and beautiful and active; while the widow, or married woman, deprived of commerce with her hufband, gradually returns to the imperfections and peculiarities of fingle life; and that the antient virgin, all her life deprived of this animating effluvia, is generally confumed with infirmity, ill-temper, or difeafe. It is well known, too, that the want of coition at the time of life when nature feems to require it, induces many diforders in females; and that the use of it removes thefe, and even other difeafes. Chlorofis or the whites almost always attack females immediately after puberty; and, even when the violence of its fymptoms have not been difcerned till a later period, its origin can always be traced back to that time. When the human fystem is completely evolved, and all its parts have acquired their full growth, a balance is produced between the circulating and folid fystems; though, from the ideas we have fuggested concerning the menses, this balance in the female cannot ftrictly be called complete. It is only complete in her when in perfect health, and in an impregnated state; at other times, the catamenia, as preponderating against the powers of the folid fystem, in proportion to the degree of their period, difturb the equilibrium, and thereby more or lefs induce a ftate inconfistent with perfect health. But when the propelling power of growth has cealed before the folids, either

43

Digitized by Google

F 2

either from actual difease, or want of uniformity in either period, or accellion with respect to the progress of the circulating fystem, have acquired their proper vigour and tone; and when the catamenia has affumed its destination before it is accompanied by the general as well as local energy which is requisite to expel it, an univerfal want of balance comes on; the blood lofes its ftimulating influence on the vitiated folids, and thefe, in their turn, act feebly on the diftempered blood. Accordingly, in the cure of this difeafe, no matter whether adopted from particular theories or from experience, medicines are directed to reftore vigour to the folids, and confiftence and ftimulus to the circulating mass. Nature proceeds in the same manner; and the beneficial effects of coition in the cure of this difease have been too material to escape observation. It may be alledged, that these effects depend entirely upon local influence; and that even voluptuous gratification, by quieting the turbulence of paffion, is of confequence in the cure. We shall not fay that these things are unavailing; for it appears that the relief obtained is chiefly owing to the increased inteftine motion, and confequent stimulus, communicated to the blood by the abforbed femen, whereby the folids themfelves are ultimately reftored; and we are the more confirmed in this opinion, because all these fortunate effects attend, whether coition be fucceeded by impregnation or not. Hysterics, and other difeases, would furnish us with fimilar explanations and fimilar cures.

3

Let

Let us now advance a little nearer our object. Itis beyond a doubt, that, in whatever manner the femen. acts upon the female, it does not act fuddenly, notwith- . standing the general affertions of many authors. However productive coition may be, the fecundated product . of the ovaria is not immediately difengaged. We dare not avouch this fact from observations made on the human subject, because such observations never have. been attempted, nor ever can with the finallest proba-... bility of fuccess: but the diffection of brutes, by the most eminent anatomists, with a direct view to the elucidation of this fact, afcertains it as far as fuch evidence can be admitted. In the diffection of fmall, animals by De Graaff, he found no difcernible alteration in the uterus during the first forty hours after ... coition, but a gradual change was, perceivable in the, ovaria; and what he supposed the ripened origin of, the future animal, at the end of that time, loging its transparency, became opaque and ruddy. After that time, the fimbriæ were found clofely applied to the ovaria; the cavities from whence the ova had, been . expressed were discernible; and about the third day the ova were discovered in the uterus. In large animals, and in those whose time of uterine gestation was . longer, it was found that the progress which we have. been deferibing was proportionably flower. The fame experiments have been made by different anatomists and perhaps with very different views; and, though ... they have not always been managed with the fame judgment and dexterity, yet all of them more or lefs confirm

46

confirm the idea that there is a very confiderable lapfe. of time intervening between productive copulation and the expulsion of the ovum from the ovaria. But if this is the cafe with animals which foon arrive at puberty, and which, like human creatures, copulate not perfectly before puberty, --- whole lives are fhort, and progrefs in equal periods of time more rapid than those ' in man,---by parity of reason, it must happen, that in women the period between impregnation and the expulfion of the fecundated product of the ovaria must be confiderably greater than what has been observed to take place in these animals. If all this is true---how are we to suppose nature to be employed during this interval? We believe it is during this period that the whole female conftitution is labouring under the fecundating influence of the feminal fluid taken into the blood by the abforbents; while the ovaria are largely participating, and their product ripening, by means of the general ftimulating process. And the fame process which maturates the ovum tends to facilitate its exclufion. The ovaria, as well as their product, are at this time enlarged, and other changes, fubject to the examination of our fenfes, induced. It is no proof against the reality of this general alteration in the circumstances of the circulating fystem, and confequent revolution in the ovaria, that the whole is accomplished with but little visible disturbance, either local or universal. In other cases of material alteration in the mass of blood, equal quietness and obscurity prevail. In scrophulous or fcorbutic taints; in the inoculated fmall pox, or when

Digitized by GOOGLE

when they are produced by contagion; the poifon filently and flowly diffufes itfelf throughout the whole mafs, and a highly morbid flate is imperceptibly induced. Thus, an active and infinuating poifon intimately mixes itfelf with all the containing, perhaps, as well as contained, parts, perverts their natures, and is ready to fall upon and deftroy the very powers of life, before one fymptom of its action or of its influence has been difcerned. It is the fame in a confirmed lues, and it is even more remarkable in the hydrophobia derived from the bite of a mad dog; and the whole round of contagious difeafes have the fame unalarming, yet certain, progrefs and termination.

That the final influence of this elaborate process should be determined particularly, and at all times, to the ovaria, is no way marvellous. To qualify the ovaria for this, they are fupplied with a congeries of blood-veffels and nerves, at puberty larger and more numerous than what is allotted to any other part of fimilar magnitude. Were the ovaria merely a receptacle for the ova, which the venereal orgafm, communicated by the nerves, or by the impulsion of the applied femen, was to lacerate; what use would there be for fo intricate and extensive an arrangement of bloodveffels and nerves ? But we may farther remark, that every diffinct process in the human body, either during health or difease, tends to one particular and distinct purpofe. The kidneys do not fecrete bile, nor does the liver strain off the useless or hurtful parts of the blood which are defined to pass off by the emulgents; neither

Digitized by

.18

neither do the falivary and bronchial glands promif-'cuoufly pour out mucus or faliva; the variolous virus does not produce a morbillous eruption, fyphilitic caries, or scrophulous ulcer; why then would the fecundated blood unconcernedly and promifcuoufly determine its energy to the fkin, the lymphatics, or the fubstance of the bones? We know none of the operations in the human body, deftined for the ordinary purposes of life and health, or for the removal of difeafe, but in a greater or lefs degree involve the machinery of the whole fystem. A fingle mouthful of food, while it is prepared, purified, and applied to its ultimate purposés, is subjected to the action of all the known parts of the body, and without doubt to all those parts the properties of which we are unacquainted with; a draught of cold water fpreads its influence almost instantaneously from one extremity to the other; the flightest wound disturbs even the remotest parts, and is followed, not unfrequently, with the most unhappy effects; an almost invisible quantity of poison fets the whole frame in torture, and all the active powers of the body inftinctively exert themselves to folicit its expulsion :--- Can we diftinguish these things, and admire them, and then suppose that the most material operation of the human body---the renovation of itfelf, is to be accomplished in a corner, and with infinitely less formality and solemnity than a spittle is cast upon the wind? The evident means are fufficiently degraded; we need not exert our ingenuity to degrade them farther.

It

Digitized by GOOgle

49

It is during this interval, between productive coition and the exclusion of the ovum from the ovaria, that likenefs, hereditary difeafes, and the like, are communicated and acquired. Instead of that influence which the imagination of the mother is fuppofed to posses over the form of the child, might we not fufpect, that the feminal fluid of the male, co-operating, during this interval, with the influence of the female upon the ovum, inftigated a likeness, according to the influence of the male and female tinctures, in the united principles? It is during this period only that the difeafes of the male can be communicated to the child; and, if we admit not of this interval and general operation of the feminal fluid, we cannot fee how they can be communicated, though those of the mother may be communicated then or at a much later period, confidering how the child is nourifhed while it is in the uterus and at the breaft. It may be urged against this early and effectual acquisition of likeness, that the foetus does not acquire even the division of its largest members till long after its exclusion from the ovaria: but then we are confident, that, as the foetus takes all its form and other properties from the active fubtility of these blended tinctures, we cannot fee any reason why it should. not poffess this hereditary faculty, in common with the reft. If likeness depends upon the imagination of the female, how happens it that the children of those whose profligate manners render the father uncertain, and whole affections ceale with the inftant of libidinous gratification, are as frequently diftinguishable by their likenefs

30

likenels as those children who have been born under hone of those misfortunes? If the features are not planted during this period, and if imagination be not idle or useles, how was the fix-fingered family, mentioned by Maupertuis, continued? When a female of that family married a man who had only the usual number of fingers, the deformity of her family became uncertain, or cealed; and we mult suppose her imagination could not have been inactive or diminished, whether alarmed by the fear of continuing a deformed race, or infligated by the vanity of transmitting fo remarkable a peculiarity. Was imagination, in a preghant woman, fo powerful as many have endeavoured to represent it, the mother, profligate at heart, though not actually wicked, would always betray the apoftacy of her affections; and even a virtuous woman might divulge that she had looked with as much eagerness at a handfome ftranger, as the had looked at the aquiline nole, or other prominent feature, of her hulband.

But admitting that the feminal fluid of every male possesses fome kind of influence peculiar to that male; and connected with his form, as well as his conflictution : in the fame, or in fome fimilar manner, it contains, notwithstanding the elaborateness of its preparation, the stamina of difeases, some of which often lie longer dormant than even the features of individuals; that the ova are as peculiarly constructed, by the constitution of the female, as any other parts which depend upon gradual and folitary evolution; and that these, operating upon each other by the intervention of the general fystem

fystem of the female, may, according to the power or prevalence of either, affect the features and figure of the incipient animal, or rather the inorganized mais from which the features and figure of the animal are afterwards to be evolved : admitting all these things, will national or even more extensive fimilitude corroborate the opinion ?

We shall have occasion to remark, that the prefer-. vation and continuation of the particular fpecies appears to proceed from that parent, who, in the act of procreation, has discovered most strength and vigour; and this is commonly the father. A young negro woman in Virginia, after having brought forth for the first time a black child, was delivered a fecond time of twins; one of them, a boy, was black, and the other, who was a girl, was a mulatto. As the boy grew up, he retained his fhort hair, which was naturally frizzled, and had a refemblance to wool; other marks plainly shewed that he was a true negro, and in every respect like the black father who had begotten him. The girl, on the other hand, was tolerably white; the had blue eyes, long black hair, without any natural curl; in fhort, fhe had a great refemblance to the overfeer of the plantation, whom the negro hufband fufpected of cohabiting with his wife. Becoming pregnant a third time, fhe was delivered of three children, two of them mulattoes, and the other a perfect negro. Shall we afcribe this to the effect of imagination? Such an explanation is rejected by the philosopher as abfurd, and contrary to every law of nature. We can account for

G 2

Digitized by GOOGLE

for the third delivery, therefore, only by admitting the cohabitation of two fathers of different races, and then a fuperfoctation.

While men continue in the fame climate, and even in the fame district, an uniform peculiarity of features and figure prevails among them, little affected by all those changes which improve or degrade the mind; but when they migrate, or when they are corrupted by the migration of others, this national diffinction in time is loft, though in the latter cafe it feems to be recoverable, unless the cause of change be continued. The beautiful form and features of the ancient Greeks are at this day difcernible in their defcendants, though they are debafed by intercourfe with strangers, and by forms of government ultimately affecting their conftitutions; the defcendants of the few who by chance or defign have been obliged to fettle among the ugly tribes in the extremities of the north, have, by their intercourfe with these tribes, and by necessarily accommodating themfelves to the fame modes of life, befides other circumstances, become almost equally ugly; and the Jew himfelf, though he abhors to mingle with a different nation, and though his mode of life is nearly the fame in all climates, yet the fettlement of his anceftors in any one particular climate for fome centuries will very fenfibly impair the characteristic features of his people. As equally in point, and lefs liable to queftion, we may mention the following fimilar observations. A Scotchman, an Englishman, a Frenchman, or a Dutchman, may, even without their peculiarities of drefs,

drefs, be almost always distinguished in their very pictures; the flurdy and generous Briton, notwithftanding the shortness of the period, and the uninterrupted intercourfe, is traced with uncertainty in the effeminate and cruel Virginian; and the negroes in North America, whole families have continued fince the first importation of these unhappy creatures, and whose modes of living, exclusive of their flavery, are not materially changed, are much lefs remarkable for the flat nofe, big lips, ugly legs, and long heels, than their anceftors were, or than those who are directly imported from the fame original nation. From these observations it seems allowable to infer, that though climate, manners, occupation, or imitation, cannot materially affect the form or features of the existing animal; yet these circumftances, becoming the lot of a feries of animals, may, by inducing a change in the general mass both of the male and female, be the remote caufe of a change in their product,

After what has been premifed, it feems rational to conclude, that the prolific fluid, in coition, is neither carried through the Fallopian tubes, nor protruded through the aperture of the uterus, to the ovaria; but that it is taken up by the abforbent veffels, and conveyed into the fanguiferous fyftem; where indeed every active principle that can poffibly affect the human conflitution is alfo conveyed. That, by circulating through the blood, it is, by its natural impulfe and the additional ftimulus acquired from the mother, forced through the correfponding veffels into the ovaria; where, if it finds one

54

one or more of the ova in a ftate fit or ripe for impregnation, conception takes place accordingly; and either one or more are impregnated, as the maturated ftate of the ovaria might happen to be. But if none of the ova or eggs are in a ftate fufficiently mature, or chance to be injured by any offending humours, by debility, or difeafe, in either of these cases impregnation is fruftrated, just the fame as happens to an addled egg, or to a damaged grain of corn thrown into the earth.

On the other hand, if the male organ be deficient in vigour, or the femen be defective in quantity, confiftency, or active power, it then fails of ftimulating the female fluid, and is incapable of influencing impregnation. In order therefore that the act of copulation fhould be productive, the male must unquestionably convey to the female an elaborate tincture, which poffeffes the effences of his whole fystem, as well mental as corporeal. In this act, the utmoft energy and powers of the mind, of the body, and of the foul, are intimately connected; and all contribute their particular influence to the feed; of which every father must be fenfible, when he recollects the action of the heart, the feat of life---of the brain, the feat of the foul---and of the whole powers of the body, concentrated and impelled, as it were, through the genital fyftem. That this liquor comprehends the active principles of body and foul, will not I think be doubted by those who give the foregoing arguments their proper weight; and that it conveys with it, more or lefs, the direct image of the parent, I take to be confirmed by the evidence of the fcripture ;

Digitized by Google

feripture; where we are told that one abfolute and unequivocal form was given to man, in the express image of the Deity. So that man, thus organized and commillioned, was doubtlefsly to convey to future generations, that divine image or fignature which God had graciously stamped upon him. For this purpose the feed of man, or efficient principle of generation, mult be mingled with the vegetative fluid of the female; and, being attracted or taken up by the abforbent veffels from the uterine canal, passes immediately into the circulating fystem, where affimilating with the peculiar temperature of the mother, and acquiring new energy from the enlivening quality of the blood, it is directed through its natural channels to the ovaria, impregnating the germ by its active quality, and conveying to it the peculiarities it had derived from the constitutions, forms, tempers, and dispositions, of the parents, with the feeds of whatever difeases, impurities, or taints, were lurking in their blood. For from the blood and brain is the male feed primarily elaborated, and into the female mass is this thrown and affimilated, before impregnation can poffibly take place. In the courfe of fix days, I conclude the united tinctures to have travelled through the whole circulating fystem --- to have participated of the hereditary forms and peculiarities of the mother; and to have propelled the ovum or egg from its feat in the ovaria to a fufpended fituation in the womb, hanging by a minute thread, that afterwards becomes the umbilical veffel, or aperture through which nourishment and life is conveyed from the mother to the

56

the child. This first visible state of conception, which refembles the lucid appearance of a drop of water, tending to coagulation, is correctly shewn in the first figure of the annexed plate, precisely in the state it was extracted from the uterus of a female, who died on the fixth day after contact with the male, and is now to be feen, preferved in spirits, in Rackstrow's valuable Mufeum, in Fleet-street, London.

At the time the ovum, or rudiments of the embryo, defcends into the womb, it is indeed very minute; but at the end of about thirty days, we may partly difcover the firft lineaments of the fœtus, though fmall and imperfect, being then only about the fize of a houfe fly. Two little vefficles appear in an almost transparent jelly; the largest of which is intended to become the head of the fœtus, and the other smaller one is destined for the trunk; but neither the limbs nor extremities are yet to be seen; the umbilical cord appears only as a minute thread, and the placenta, which only refembles a cloud above, has no ramifications, or appearances of blood-vessels. This state of the embryo is expressed in the second figure of the annexed plate.

Towards the end of the fecond month, the fortus is upward of an inch in length, and the features of the face begin to be evolved. The nofe appears like a fmall prominent line; and we are able to difcover another line under it, which is defined for the feparation of the lips. Two black points appear in the place of eyes, and two minute holes mark the formation of the ears. At the fides of the trunk, both above and below,



Third . Month.

Yourth . Month.

Formation of the Human Frehus.

Dodd del.

J.Pagi sculp Plate I.

- Digitized by Google

Published as the Act directs, June 20th 17.9.4.



57

low, we fee four minute protuberances, which are the rudiments of the arms and legs. The veins of the placenta are alfo now partly vifible; as may be feen in No. 3. of the annexed plate.

In the third month the human form may be decidedly ascertained; all the parts of the face can be distinguished; the shape of the body is clearly marked out; the haunches and the abdomen are elevated, and the hands and feet are plainly to be diffinguished. The upper extremities are observed to encrease faster than the lower ones; and the feparation of the fingers may be perceived before that of the toes. The veins of the placenta are now diftended, and are feen to communicate with the umbilical tube. This flate of geftation is faithfully delineated in No. 4. of the annexed engraving.

In the fourth month the foetus feems to be completed in all its parts, and is about four inches in magnitude. The fingers and toes, which at first coalesced, are now feparated from each other, and the inteffines appear, in all their windings and convolutions, like little threads. The veins of the placenta begin to be filled with blood, and the umbilical cord is confiderably enlarged; as may be feen in the fifth figure of the fubjoined plate.

In the fifth month, the bodily conformation being perfected, and a complete circulation of the blood induced, the mother quickens. The foetus now assumes a more upright figure, which corresponds with the shape of the uterus. Its head is found more elevated, its lower extremities are more diftended, its knees are drawn

H

drawn upwards, with its arms refting upon them. It now measures from seven to eight inches in length, and is described in the first figure of the second subjoined plate.

Towards the end of the fixth month, the foctus begins to vary its position in the womb, and will frequently be found to incline either to the right or to the left fide of the mother. It will by this time be increased to nine or ten inches; and its usual posture after quickening may be seen in the second figure of the fecond annexed plate.

In the feventh month the child acquires ftrength and folidity, as may be demonstrated by those painful throws and twitchings which its mother feels from time to time; and it is now encreased to eleven or twelve inches.

In the eighth month it generally measures from fourteen to fixteen inches; and in the ninth month, or towards the end of its full time, it is increased from eighteen to twenty-two inches, or more; when the head, by becoming specifically heavier than the other parts, is gradually impelled downwards, and, falling into the birth, brings on what is termed the pains of parturition, or natural labour. For the exact position of the child in the womb, during these last three months, as well as the former, see the corresponding figures in the two annexed engravings, the whole of which were correctly drawn from real focuses, extracted from the wombs of different women, and are now preferved for the inspection of the curious, in Rackstrow's Museum,

700g

Digitized by

58



JAN THE MARK



Museum, to which I beg leave to refer the inquisitive reader.

The nourishment of the foetus during all this time, is derived from the placenta, which is originally formed out of that part of the ovum which is next the fundus The remaining part of the ovum is covered uteri. by a membrane called *(pongy chorion*; within which is another called true chorion, which includes a third. termed amnios. This contains a liquor, or watery fluid, in which the foetus floats till the time of its birth. Before the child acquires a diffinct and regular form, it .is called embryo; but, from the time all its parts become visible, it takes and retains the name of fatus till its During the progrefs of impregnation, the birth. uterus fuffers confiderable changes; but, though it enlarges as the ovum increases, yet, in regard to its contents, it is never full; for, in early gestation, these are confined to the fundus only; and, though the capacity of the womb increases, yet it is not mechanically stretched, for the thickness of its fides do not diminish; there is a proportional increase of the quantity of fluids, and therefore pretty much the fame thickness remains as before impregnation. The gravid uterus or pregnant womb is of different fizes in different women, and must vary according to the bulk of the fœtus and involucra. The fituation will also vary according to the increase of its contents, and the position of the body. For the first two or three months, the cavity of the fundus is triangular, as before impregnation; but, as the uterus stretches, it gradually acquires

H 2

60

a more rounded form. In general, the uterus never rifes directly upwards, but inclines a little obliquely, most commonly to the right fide: its position is never, however, fo oblique as to prove the fole caufe, either of preventing or retarding delivery; its increase of bulk does not feem to arife merely from diffention, but to depend on the fame caufe and increase as the extension of the fkin in a growing child. This is proved from fome late inftances of extra-uterine fœtufes, where the uterus, though there were no contents, was nearly of the fame fize, from the additional quantity of nourifhment transmitted, as if the ovum had been contained within its cavity. The internal furface, which is generally pretty fmooth, except where the placenta adheres, is lined with a tender efflorescence of the uterus, which, after delivery, appears as if torn, and is thrown off with the cleanfings. This is the membrana decidua of Dr. Hunter; which he describes as a lamella from the inner furface of the uterus; though Signior Scarpa, with more probability, confiders it as being composed of an inspissated coagulable lymph.

Though the uterus, from the moment of conception, is gradually diftended, by which confiderable changes are occafioned, it is very difficult to judge of pregnancy from appearances in the early months. For the first three months the os tincæ feels fmooth and even, and its orifice as fmall as in the virgin state. When any difference can be perceived, about the fourth or fifth month, from the descent of the fundus through the pelvis, the tubercle or projecting part of the os tincæ

61

tincæ will feem larger, and more expanded; but, after this period, it shortens, particularly at its fore-parts and fides, and its orifice or labia begin to feparate, fo as to have its conical appearance deftroyed. The cervix. which in the early months is nearly fhut, now begins to ftretch and to be diftended to the os tincæ; but, during the whole term of utero-gestation, the mouth of the uterus is ftrongly cemented with a ropy mucus, which lines it and the cervix, and begins to be discharged on the approach of labour. In the laft week, when the cervix uteri is completely diffended, the uterine orifice begins to form an elliptical tube, inflead of a fiffure, or to affume the appearance of a ring on a large globe; and often at this time, especially in pendulous bellies, difappears entirely, fo as to be out of the reach of the finger in touching. Hence the os uteri is not in the direction of the axis of the womb, as has generally been fuppofed.

About the fourth or between the fourth and fifth month, the fundus uteri begins to rife above the pubes or brim of the pelvis, and its cervix to be diftended nearly one third. In the fifth month the belly fwells like a ball, with the fkin tenfe, the fundus about half way between the pubes and navel, and the neck one half diftended. After the fixth month the greateft part of the cervix uteri dilates, fo as to make almost one cavity with the fundus. In the feventh month the fundus advances as far as the umbilicus. In the eighth it reaches mid-way between the navel and fcrobiculus cordis; and in the ninth to the fcrobiculus itfelf, the neck

neck then being entirely diftended, which, with the os tincæ, become the weakeft part of the uterus. Thus at full time the uterus occupies all the umbilical and hypogaftric regions; it fhape is almost pyriform, that is, more rounded above than below, and having a ftricture on that part which is furrounded by the brim of the pelvis. The appendages of the uterus fuffer very little change during pregnancy, except the ligamenta lata, which diminish in breadth as the uterus enlarges, and at full time are almost entirely obliterated.

The various difeafes incident to the uterine fyftem, and other morbid affections of the abdominal vifcera, in weak and fickly females, will frequently excite the fymptoms, and affume the appearance, of real pregnancy. Complaints arifing from a fimple obftruction are fometimes miftaken for those of breeding; when a tumour about the region of the uterus is also formed, and gradually becomes more and more bulky, the fymptoms it occasions are fo strongly marked, and the refemblance to pregnancy fo very striking, that the ignorant patient is often deceived, and even the experienced physician imposed on.

Schirrhous, polypous, or farcomatous, tumors, in or about the uterus or pelvis; dropfy or ventofity of the uterus or tubes; fleatoma or dropfy of the ovaria, and ventral conception, are the common causes of such fallacious appearances. In many of these cases the menses disappear; nausea, retchings, and other symptoms of breeding, ensue; flatus in the bowels will be mistaken for the motion of the child; and in the advanced

62

Digitized by Google

...

vanced stages of the disease, from the pressure of the fwelling on the adjacent parts. Tumefaction and hardness of the breaks supervene, and sometimes a viscid or serous studies from the nipple; circumstances that strongly confirm the woman in her opinion, till time, or the dreadful confequences that often ensue, at last convince her of her stal mistake.

Other kinds of fpurious gravidity, less hazardous in their nature than any of the preceding, are commonly known by the names of falle conception and moles: the former of these is nothing more than the diffolution of the foetus in the early months; the placenta is afterwards retained in the womb, and from the addition of coagula, or in confequence of difease, is excluded in an indurated or enlarged state; when it remains longer, and comes off in the form of a flefhy or schirrhous-like mass, without having any cavity in the centre, it is diftinguished by the name of mole. Mere coagula of blood, retained in the uterus after delivery, or after immoderate floodings at any period of life, and fqueezed, by the preffure of the uterus, into a fibrous or compact form, conftitute another species of mole, that more frequently occurs than any of the former. Thefe, though they may assume the appearances of gravidity, are generally, however, expelled fpontaneoufly, and are feldom followed with dangerous confequences. But, when two or more of the ova descend into the uterus, attach themselves so near one another as to adhere in whole or in part, fo as to form only one body, with membranes and water in common, this body will from

63

64

form a confused irregular mass, which is called a monfter; and thus a monster may be either defective in its organic parts, or be supplied with a supernumerary set of parts derived from another ovum. This proceeds from a defect or accident in nature, which it is entirely beyond the power of medicine to rectify or prevent.

It would feem, however, from a'due contemplation of the foregoing facts, from the frame and structure of females, and from the ultimate end and purpose of their conformation, that almost every malady refulting from a state of pregnancy, except the last-mentioned, may be in a great measure prevented or removed. The natural temperature of women differs in a very confiderable degree from that of men, inafmuch as their blood and juices are determined to a peculiar and diffinct purpose; and hence it is that obstructions of the menfes, their excess, or privation of the office intended them, conftitute those peculiar maladies which we term Diseases of Women. The natural temperature of the male, is bot and dry; that of the female, cold and moift. The action of the procreative tincture of man, is So-LAR, i. e. of a heating and quickening faculty; that of the woman is LUNAR, i. e. of a cool and vegetative quality. As the fun heats, and gives prolific energy to the fruits of the earth, fo man fecundates and gives life to the prolific tincture of the woman. Thus the female, as the microcofm, or epitome of the celeftial fystem, possesses an inherent fimilitude with the moon, vegetates and brings forth the fruit of her womb, and not only feels the influence and fympathy of that luminary

luminary in her monthly discharges, but in all the travail and vicifitudes of pregnancy. To the fame fource likewife we trace the caufe, and decide the queftion, Whether the fruit of the womb be male or female? for, if the male feed be predominant, heat will abound, and a male foetus will be generated; but, if the cooling moifture of the woman overcomes the maculineheat in the male feed, a female is then produced. The old and exploded notion, of this caufe depending on the child's falling to the right or left fide of the mother, is too abfurd to weigh a moment on the mind of any reasonable enquirer.

We discover likewise that the male, being conflicuted of the Solar temperature, is naturally fubjected to those infirmities of body and mind, which refult from the elements of fire and air; while those of the female are of Lunar tendency, arifing from the elements of water and earth. Of these four elements our gross or material part is formed, and by their due and proper commixture in the conftitution, or circulating mais, are life and health established; whilst, on the contrary, by their discordant, defective, or predominant, power, difeafe and death are produced. Now the male abounding in heat, and the female in moisture, is the reason why many diforders incident to man, are alleviated by contact with the woman; as those of the woman are by contact with the man. In the grand feale of nature, we find the meridian heat and fcorching rays of the Sun, are qualified and corrected by the cooling moisture and mild influence of the midnight Moon :

Moon; but when either of these are obstructed in their effect, by the intervention of accidental causes, by storms, by tempests, or unseasonable blasts, we then endeavour to repress by art the evil consequences that are likely to ensue. Just so in the human economy, the grand purpose and design of medicine is to correct and modify the discordant elements in the constitution, and give that vigour and tone to the vital powers, which constitute the genuine principles of health and life.

From what has been fuggefted we might fafely infer, that the conflitution and temperature of the female requires a medicine of an oppofite action and tendency to that adapted to the male, and which ought to be compounded of elements congenial to the intentions of nature, calculated to purge the uterus, to purify the feminal fluid, and give ftimulus to the catamenia; which, if not put in motion by the functions of nature, becomes dull and ftagnant, and vitiates the whole circulating mafs; whence those disorders, peculiarly incident to the most amiable, as being the most virtuous of women, are confessfedly derived; and for the cure and prevention of which, a peculiar and distinct remedy has long been wanting.

These, and other confiderations, influenced by the known power of second causes, and their faculty of acting upon the mechanism of the human frame, induced me to attempt the chemical preparation of two subtile Tinctures, constituted of a co-mixture of the purest elements of which our blood is composed, and adapted

66

67

Digitized by GOOGLE

adapted to the peculiar temperature and conftitutions of the opposite fexes. That intended for the use of Man, I call the SOLAR TINCTURE, as being congenial to the feminal functions and vital principles of his conftitution. That adapted to Woman, I call the LUNAR TINCTURE, as being calculated to act upon the menstrual and vegetative fluids, and as being compounded of those elements which make up the frame and temperature of her body. The invention of these Tinctures hath been the refult of a long and laborious application to the fludy of unveiled nature --- of the properties of fire, air, earth, and water, in the propagation of animal and vegetable life, and in the compofition of medicine; in which, though these elements form the PABULUM of the universe, yet the art of collecting, uniting, and affimilating, them with the vital fluids, feems to be unknown among modern chymifts, and hath efcaped the obfervation of medical fcience. The fixidity of these Tinctures at once establish their power and efficacy beyond all others; for they can never be affected by change of weather or climate, nor by heat or cold; nor will they fuffer any diminution of strength or virtue by remaining open, or uncorked; a circumstance which cannot be affirmed of any other fluid at prefent known, throughout the world.

I shall now proceed to shew the action of the Lunar Tincture on female constitutions; and as this medicine is only intended to remedy fuch complaints as particularly relate to pregnancy, and the menftrual difcharge, I shall omit to notice any other maladies, until I come

I 2

I come to treat of the Solar Tincture; which, though Mentially directed to give tone and vigour to the con-Aitution of the male, is nevertheless equally efficacious to the female in removing all diforders of the blood and lymph, that are alike common to valetudinarians No complaint in the female habit, of both fexes. therefore, comes under our prefent enquiry, till at or near the age of puberty. Until this important period of the fex arrives, the rules heretofore laid down in the Medical Part of my Family Phyfician, for the management and future health of young ladies, deferve a very close and ferious attention. The evident diffinction between the male and female in their ftructure and defign --- in their bodily ftrength and vigour, and in the procreative fluids, demands the utmost attention from themfelves, and the tenderest care from the phyfician. Nor can we too often nor too earneftly caution parents and guardians against the evils of that abfurd though fashionable stile of bringing up young ladies, by confining them almost entirely to their apartments, keeping them on poor low diet, and using artificial means to make them spare and delicate, which contribute more to their prejudice than all the incidental difeafes to which they are otherwife fubject. Thefe refinements in a female education, befides deftroying their ruddy complexion, (which is often the defign of it,) relaxes their folids, impoverifhes their blood, weakens their minds, and diforders all the functions of their body, whereby they are often rendered incapable of conception, and denied the felicity of becoming mothers.

Digitized by Google

68
thers. On the contrary, it ought to be the fludy, as it certainly is the duty, of all that have girls under their care, to indulge them in every innocent diversion, and in every active exercise, that can give freedom to the limbs, or agility to the body; all of which have a natural tendency to exhilarate their spirits, to promote digestion, to stimulate their blood and juices, and, at the proper age, to bring on a free and easy discharge of the menstrual flux.

Though it be univerfally admitted, that this flux is abfolutely neceffary to nourifh and fupport the foctus, and that without it human generation cannot be carried on; and that it is confequently and obvioufly peculiar to the female uterine fystem; yet it is curious to obferve the various abfurd and contradictory opinions fome physicians have laboured to establish, merely, one would suppose, to bewilder the understanding, and subject delicate females still more to that erroneous or misguided treatment, by which their health, their life, and every earthly bleffing, is too frequently involved.

Dr. Bohn, and Dr. Freind, infift that this flux is nothing more than a plenitude of the common mafs of blood, which nature throws off only for relief againft the too abundant quantity. Dr. Freind fuppofes, that this plenitude arifes from a coacervation in the bloodveffels of a fuperfluity of aliment, which, he thinks, remains over and above what is expended by the ordinary ways; and that women have this plethora, and not men, becaufe their bodies are more humid, and their veffels, effectally the extremities of them, more tender,

69

70

tender, and their manner of living generally more inactive than that of men; and that these things, concurring, are the occasion that women do not perspire fufficiently to carry off the fuperfluous alimentary parts. till they be accumulated in fuch quantities as to diftend the veffels, and force their way through the capillary arteries of the uterus. It is fuppofed to happen to women more than to the females of other fpecies, which have the fame parts, becaufe of the erect pofture of the former, and the vagina and other canals being perpendicular to the horizon; fo that the preffure of the blood is directed towards their orifices; whereas, in brutes, they are parallel to the horizon, and the preffure wholly is on the fides of those vefiels. The difcharge, he thinks, happens in this part rather than in any other, as being favoured more by the ftructure of the veffels; the arteries being very numerous, and the veins finous and winding, and therefore more apt to retard the impetus of the blood; and confequently, in a plethoric cafe, to occafion the rupture of the extremities of the veffels, which may last, till, by a sufficient discharge, the vessels are eased of their overload. To this he adds the confideration of the foft pulpous texture of the uterus, and the vaft number of veins and arteries with which it is filled. Hence a healthy maid, being arrived at her growth, begins to prepare more nutriment than is required for the fupport of the body; which, as there is not to be any farther accretion, must of neceffity fill the veffels, and especially those of the uterus and breafts, they being the least compressed. Thefe

These will be dilated more than the others; whence, the lateral vascules evacuating their humour into the cavity of the uterus, it will be filled and extended. Hence a pain, heat, and heavines, will be felt about the loins, pubes, &c. the vessels of the uterus, at the fame time, will be so dilated as to emit blood in the cavity of the uterus, and its mouth will be lubricated and loofened, and blood issue out. As the quantity of blood is diminiss the vessels will be less pressed, and will contract themselves closer, so as again to retain the blood, and let pass the grosser part of the ferum; till at length only the usual ferum passes. Again, there are more humours prepared, which are more easily lodged in vessels once dilated; and hence the menses go and return at various periods in various perfons.

This hypothefis is judicioufly oppofed by Dr. Drake, who maintains, that there is no fuch plenitude, or at leaft that it is not neceffary to menftruation; arguing, that, if the menfes were owing to a plethora fo accumulated, the fymptoms would arife gradually, and the heavinefs, ftiffnefs, and inactivity, neceffary fymptoms of a plethora, would be felt long before the periods were completed, and women would begin to be heavy and indifpofed foon after evacuation, and the fymptoms would increase daily; which is contrary to all experience, many women, who have them regularly and eafily, having no warning, nor any other rule to prevent an indecent furprife, than the measure of time; in which, fome that have flipped, have been put to confusion and fhifts no ways confistent with the notice a

2

plethoric

71

72

plethoric body would give. He adds, that even in those who are difficultly purged this way, the symptoms, though very vexatious and tedious, do not make such regular approaches as a gradual accumulation necessarily requires. If we consider what violent symptoms come on in an hour, we shall be extremely puzzled to find the mighty accession of matter, which should, in an hour or a day's time, make such great alterations. According to the hypothesis, the last hour contributed no more than the first; and of consequence, the alteration should not be greater in the one than in the other, setting as a gradual accumulation.

There are others who give into the doctrine of fermentation, and maintain the evacuation in those parts to be an effect of an effervescence or ebullition of the This opinion has been maintained by Dr. blood. Charleton, Bale, De Graaf, and Drake; the two firft of whom suppose a ferment peculiar to the women, which produces this flux, and affects that part only, or at least principally. De Graaf, less particular in his notion, only supposes an effervescence of the blood, raifed by fome ferment, without affigning how it acts, or what it is. The fudden turgescence of the blood occasioned them all to think, that it arose from something till then extraneous to the blood, and led them to the parts principally affected to feek for an imaginary ferment, which no anatomical inquiry could ever fhew, or find any receptacle for, nor any reafoning neceffarily infer. Again, that heat, which frequently accompanies this turgescence, led them to think the case more

Digitized by GOOGLE

more than a plethora, and that there was fome extraordinary inteffine motion at that time.

Dr. Drake contends, that it is not only neceffary there should be a ferment, but a receptacle also for this ferment; concluding, from the fuddenness and violence of the fymptoms, that a great quantity must be conveyed into the blood in a fhort time, and confequently that it must have been ready gathered in fome receptacle, where, while it was lodged, its action was reftrained. He pretends to afcertain the place both of the one and the other, making the gall-bladder to be the receptacle. The liquor he thinks well and the bile the ferment. adapted to raife a fermentation in the blood, when difcharged into it in quantity; and, as it is contained in a receptacle that does not admit of a continual iffue, it may be there referved, till in a certain period of time the bladder becoming turgid and full, through the compreflion of the incumbent viscera, it emits the gall; which, by the way of the lacteals, infinuating itfelf into the blood, may raife that effervescence which occafions the aperture of the uterine arteries. To confirm this, he alledges, that perfons of a bilious conftitution have the menfes either more plentifully, or more frequently, than others; and that diftempers manifeftly bilious are attended with fymptoms refembling those of women labouring under difficult menstruation. But, if this argument be admitted, men would have the menfes as well as women. To this however he anfwers, that men do not abound in bile fo much as women, the pores of the former being more open, and carrying

.73

Digitized by GOOGLE

74

carrying off more of the ferous part of the blood, which is the vehicle of all other humours, and confequently a greater part of each is discharged through them than in women, wherein the fuperfluity must either continue to circulate with the blood, or be gathered into proper receptacles, which is the cafe in the bile. The fame reafon he gives why menstruation should not be in brutes: the pores of these being manifeftly more open than those of women, as appears from the quantity of hair which they bear, for the vegetation whereof a large cavity, and a wider aperture of the glands, is neceffary, than where no fuch thing is produced : yet there is fome difference between the males and females even among thefe, fome of the latter having their menfes, fuch as the orang outang, &c.* though not fo often, nor in the fame form and quantity, But without dwelling on these abstract as women. reasonings, the absurdity of which will be obvious to every perfon who turns to the foregoing fystem of human impregnation, we need only remark, that there are two critical periods in every woman's life that completely deftroy their hypothesis. These are, that at the age of fourteen or fifteen, the menses begin to flow; but fubfide at the age of forty or fifty. At their commencement, we often find the difficulty, and confequent difeafe, arifes from their deficiency; whereas, according

* See this curious fubject, concerning the orang outang, and other animals refembling the human fpecies, treated at large, both hiftorically and philofophically, in the fecond volume of my New Magazine of Natural Hiftory.

to

to the foregoing doctrine, they would then always flow with the greatest freedom. At the period when they should cease, they are apt to come in such abundance as to bring on a flooding, which not only endangers, but too frequently deftroys, life---a fatal confequence that could not possibly happen, were the above arguments true.

OF FEMININE OR LUNAR DISEASES.

That the vegetative or procreative faculties of women are univerfally governed by the lunations of the moon, their own experience, as well as the demonstrations given in my Treatife on the Occult Sciences, indifputably prove. The first show of the catamenia, if it be natural, invariably comes with the new or full moon; or fometimes, though very feldom, at the commencement of her first or last quarters; and this effort of nature is justly confidered as the fure fign of a procreating ability, and of complete puberty. Whenever this feafon arrives, whether early or late, the conftitu-. tion of every female undergoes a confiderable change, and the greatest care and attention are then necessary, fince the future health and happiness of every woman depend, in a great measure, upon her conduct at this It is the duty of mothers, and of those who period. are intrusted with the education of girls, to instruct them early in the conduct and management of themfelves at this critical moment. False modefty, inattention, and ignorance of what is beneficial or hurtful at this time, are the fources of many difeafes and miffortunes,

K 2

75

Digitized by GOOGLE

fortunes, which a very little attention might now prevent. Nor is care lefs neceffary in the fubfequent returns of this difcharge. Taking improper food, violent agitations of the mind, or catching cold, is often fufficient to ruin the health, or to render the female for ever after incapable of procreation.

In order to escape the chlorofis, and other fimilar difeafes, incident to young women at that period when the menfes commence, let them avoid indolence and inactivity, and accustom themselves to exercise in the open air as much as possible. The discharge in the beginning is feldom fo inftantaneous as to furprife them The eruption is generally preceded by unawares. fymptoms that indicate its approach; fuch as a fenfe of heat, weight, and dull pain in the loins ; diftenfion . and hardness of the breasts, head-ach, loss of appetite, lassitude, paleness of the countenance, and sometimes a flight degree of fever. When these fymptoms occur, every thing should be carefully avoided which may obstruct the discharge, and all gentle means used to promote it; as fitting frequently over fteams of warm water, drinking warm diluting liquors, &c. When the menfes have begun to flow, great care should be taken to avoid every thing that tends to obstruct them; fuch as falt-fifh, and all kinds of food that are hard of digeftion, and cold acid liquors. Damps are likewife hurtful at this period; as also anger, fear, grief, and other affections of the mind. From whatever caufe this flux is obstructed, except in the state of pregnancy, proper means should be instantly used to reftore

Digitized by Google

reftore it; and if exercise in a dry, open, and rather cool, air, wholefome diet, generous liquors in a weak and languid state of the body, chearful company, and amusement, fail, recourse must be had to medicine. In all fuch cafes blood-letting must be carefully avoided; but let the patient take from twenty to thirty drops of the Lunar Tincture, in a wine-glass of warm water or mugwort tea, every morning before breakfast, every day at noon, and every night before going to bed, until the intention be answered, which will usually take place in three or four days, without the affiftance of any other medicine whatever. But it fometimes happens, in relaxed conftitutions, that the menftrual difcharge, on its first appearance, is vitiated, and over abundant; the confequence of which is, that the patient becomes weak, the colour pale, the appetite impaired, and the digeftion languid, fo that dropfy, or confumption, is likely to enfue. Effectually to prevent thefe, let the patient be kept two or three days in bed, with her head low, and observe a slender diet, principally of white meats, and her drink red-port negus. Every night and morning for ten or twelve days, let her take one table-spoonful of the Solar Tincture, diluted in double the quantity of decoction of nettle-roots, or of the greater comfrey; and after the flux has abated, and her health and ftrength feem to return, let her only take a table-fpoonful of the Solar Tincture every day at noon, in a glafs of cold fpring-water; which wonderfully contributes to reftore a due confiftency to the circulating mass, promotes digestion, and invigorates

the

77

001

Digitized by

the fpirits. Before the cuftomary period returns, fhe must discontinue the Solar Tincture; and, if there be the least appearance of irregularity or obstruction, let her again take, night and morning, for two or three days, from twenty to thirty drops of the LUNAR TINCTURE in a glass of mugwort tea, and she will quickly find a regular habit, and her health amazingly established. In obstinate or neglected cases, where the menses have secended, and, after an irregular appearance, have turned wholly into the habit, both these Tinctures should be used with a less sparing hand, particularly under circumstances in any respect similar to the following remarkable

CASE.

Being called to the affiftance of a young lady of fifteen years of age, I was informed her menses had made an irregular appearance about five or fix times, coming first with the full and then with the new moon, and afterwards at the diftance of two or three months apart until they totally disappeared, and turned back upon the habit. No notice was taken, until the patient was feized with a violent bleeding at the nofe, attended with fever and epileptic fits. After being under the care of an eminent phyfician for feveral months, who directed venefection, and almost every customary application, to no kind of purpose, the diforder fixed in her neck, forming a large tumour, the acrimony of which fell upon her lungs, and threw her into ftrong convulsions. In this extremity I was fent for. Perceiving the whole fystem deranged by spafmodic affec-

2

tions,

Digitized by GOOgle

tions, and a locked jaw almost finally completed, my first object was to relieve the vital organs, by giving force and elafticity to the circulating mass. With this view I with difficulty forced the mouth fufficiently open to administer one table-spoonful of the Solar Tincture undiluted; and within half an hour, to the aftonishment of her friends, I had the pleasure of feeing every convultive fymptom die away, and of hearing the patient's voice, of which she had been totally deprived for upwards of a week before. Two hours after, another spoonful of the Solar Tincture was taken with additional fuccess; and the patient afterwards continued this medicine in the quantity of a table-fpoonful, in a wine-glass of warm water, three times a day, for fix days, at the expiration of which time her appetite and ftrength were furprifingly returned; and fhe was then put under a regular courfe of the Lunar Tincture. Twenty drops, in a wine-glass of mugwort tea, were taken every night and morning for thirteen fucceffive days; and on the morning following, it being the full moon, with which her menfes originally came, the had the confolation to find that every obstruction was removed, and that the due course of nature was completely re-established. The glandular swellings gradually fubfided, her natural complexion quickly returned, and the now continues in blooming health, perfectly regular, free from all obstructions, and from every confequent complaint, thankful for the bleffings of her recovery, and defirous of communicating the means to any unfortunate female under fimilar affliction;

80

tion; and to whom reference may at any time be had, by application to the author.

CHLOROSIS, OR GREEN SICKNESS; by fome called the Love-Fever.

This difease usually attacks virgins a little after the time of puberty, and first shews itself by symptoms of dy/pepsia or bad digeftion. But a diftinguishing fymptom is, that the appetite is entirely vitiated, and the patient will eat lime, chalk, ashes, falt, &c. very greedily; while at the fame time there is not only a total inappetence to proper food, but it will even excite naufea and vomiting. In the beginning of the difeafe, the urine is pale, and afterwards turbid ; the face becomes pale, and then affumes a greenish colour; fometimes it becomes livid or yellow, the eyes are funk, and have a livid circle round them; the lips lofe their fine red colour; the pulfe is quick, weak, and low, though the heat is little short of a fever, but the veins are scarcely filled; the feet are frequently cold, fwell at night, and the whole body feems covered with a foft fwelling; the the breathing is difficult: nor is the mind free from agitation as well as the body; it becomes irritated by the flightest causes; and sometimes the patients love folitude, and become fad and melancholy. There is a retention of the menfes throughout the whole course of the diforder; which eventually fix on the vital organs; and death enfues.

The above complaint indifputably arises from stifling or suppressing the calls of nature at this vernal season,

OT

or juvenile fpring of life, when the primary command of God, " encreafe and multiply," is most fensibly impreffed upon the whole human fabric. Every tube and veffel appertaining to the genital fystem, being now filled with a procreative liquor, excites in the female a powerful, yet perhaps involuntary, irritation of the parts, which ftrongly folicits the means of discharging their load by venereal embraces. These, from prudential motives, being often neceffarily denied, the prolific tinctures feize upon the ftomach and vifcera, pen back and vitiate the catamenia, choak and clog the perfpirative veffels, whereby the venal, arterial, and nervous, fluids, become flagnant; and a leucophlegmatia, or white flabby dropfical tumour, pervades the whole body, and quickly devotes the unhappy patient to the arms of death. In this manner, I am forry to remark, are thousands of the most delicate and lovely women plunged into eternity, in the very bloffom of life, when female excellence is but budding forth, big with the promifed fruit of rapture and delight! How much then does it become the duty of parents and guardians, who have daughters or wards in fituations like thefe, and where no very gross objection can arife, to fuffer them to marry with the men they love, otherwife to provide fuitable matches for them; fince this will effect the most rational and most natural cure, by removing the caufes of the complaint all together. If. however, matrimony be not then convenient, nor likely, in a short time, to take place, recourse must forthwith be had to proper regimen, and phyfical aid, other-

wife

Digitized by Google

wife delirium or confumption will quickly enfue. The best method of regimen is laid down in my Family Phyfician, page 217, which, if well observed, in addition to the following courfe, will generally perform a cure. Take leaves of mugwort, briony, and pennyroyal, of each an handful; infuse them four days in two quarts of foft water, and then pour off the clear liquor for use. Take a gill-glass three parts full, with thirty drops of the LUNAR TINCTURE added to it, three times a day, viz. morning, noon, and night, till the decoction be all used. Then reduce the dose to twenty drops of the Tincture in a wine-glass of cold fpring-water morning and evening, for fifteen days; after which it fhould be taken only once a day, or every other day, until the patient finds herfelf entirely free from every fymptom of the difeafe. For this malady, it is the only fpecific hitherto known; it unclogs the genital tubes, purges and cools the uterus and vagina, promotes the menftrual discharge, cleanses the urinary paffages, diffolves vifcid humours in the blood, fharpens the appetite, ftimulates the nerves, and invigorates the fpirits, which in all stages of chlorofis are fo apt to be depressed. When this diforder is not very obstinate, nor far advanced, let the patient take from twenty to thirty drops of the Lunar Tincture, in a wineglass of cold fpring-water for thirty or forty days fucceffively, and it will perform a cure without the trouble of preparing the decoction. In this malady, I have lately had the happiness of completing an elegant cure, which I shall mention here, merely for the information

of

of fuch unfortunate maids as may be languishing under the fame deplorable circumstances. The following is a literal flatement of the

CASE.

A young lady, turned of feventeen, had been afflicted with chlorofis almost three years. In the early part of the malady, fhe conceived an unconquerable appetite for wood-cinders, concreted mortar, tobacco-pipes, fealing-wax, &c. Her courses appeared at different intervals of the difeafe, but always irregular, and more or lefs in a vitiated state. About half a year preceding my attendance, this flux had totally ceafed; but, upon the approach of every new moon, with which her menfes originally came, the was afflicted with pains in the back and loins, heaviness and turgidity about the region of the womb, and other cuftomary fymptoms of the catamenia; yet not the fmalleft flow could be brought to appear. A little before this, the lady's affections - had been placed on a young man in the neighbourhood; but whose fituation in life was by no means on a scale adapted to the views of her father and family. The moment therefore this attachment was discovered, the lady was confined to her apartment, and neither fuffered to take exercife or fresh air, but when it fuited for some trusty attendant to accompany her. This confinement heightened her difease, and brought on a settled melancholy, a green fallow complexion, dejected fpirits, univerfal laffitude, and wafting of the flefh. The morbid ftate of her body having thus undermined her conftitution, without attracting either her own or her

L 2

father's

Digitized by GOOGLE

8.2

father's care, the diforder fell upon the vital organs, and with fo rapid a progrefs, that within twenty-four hours fhe was feized with an ardent fever, attended with lofs of appetite, delirium, and a total privation of fpeech. In this flocking flate fhe had the alternate advice of three phyficians of the first respectability; but the diforder increasing, and putting on the most dangerous fymptoms, after having baffled their utmost fkill, a confultation was had, and the miserable patient was configned to the grave.

Under these deplorable circumstances it was my lot to be called in; and, upon a clofe examination of the patient, fcarcely any visible figns of life remained. The pulse had nearly fubfided. The action of the heart and lungs could fcarcely be difcerned. The eyes were funk, and fixed; yet retained an uncommon look of expression and sentiment. At this time she had a large blifter round her neck, another on the pit of her ftomach; a third, very large, between her fhoulders; a fourth on her head; a fifth, and fixth, infide the ancles and legs. Venefection had been fo often repeated, that fcarce blood enough remained to fupport the heat and action of the heart. In this exhausted state, I only administered three table-spoonfuls of the Solar Tincture, undiluted, at intervals of little more than an hour apart; and, in the space of four hours after, I had the heart-felt fatisfaction of feeing the energy of the blood reftored; pulfation gradually refumed its action; the lungs were dilated ; refpiration became free; and a profuse fweat, which the Tincture induced, fortunately

85

nately opened the perfpiratory veffels; and the patient began to give evident figns of ease and fenfibility. Warm nourifhing food was afterwards taken in fmall quantities; and I was enabled to remove the blifters, and perform the dreffings, without pain or torture to the languid patient. The Solar Tincture was now administered every day for ten days, in the quantity of a table-fpoonful in a wine-glass of warm barley-water, three times a day, and once in the night, whenever watchfulness came on. About the middle of the feventh day, she began to articulate, though not a word had been uttered for upwards of fix weeks before; and on the tenth day, her voice and bodily functions were fo far reftored, that I deemed it fafe to give her an interval of fix days reft, without any medicine what-I had the happiness to find my expectations ever. completely answered; for nature, assisted by nourishing food, effected more than a profusion of drugs; fo that, in little more than twenty days, my patient was able to walk her room, and to put herfelf under a ourfe of the Lunar Tincture. This fhe perfifted in, with nourifhing diet, feconded by occafional but very gentle airings in the carriage, for near a month longer; when, on the approach of the enfuing new moon, to the unfpeakable joy of her friends, the menstrual flux refumed its natural courfe: the comfort and relief of which was fo visible to the patient, that she in ecstacy exclaimed, "my fufferings are at an end." This lady has ever fince continued to improve in health and fpirits in fo furprifing a degree, that, looking back on her late mi-

3

ferable

ferable and reduced state of body, forms a contrast fo great as almost to exceed belief. Yet the lady and her worthy parent, are at all times ready to authenticate the fact, to any reputable enquirer, or to the friends of any unfortunate female labouring under a fimilar affliction.

OF THE FLUOR ALBUS, OR WHITES.

The fluor albus, female weaknefs, or whites, as it is commonly called, is a difeafe of the womb and its contiguous parts; from which a pale-coloured, greenish, or yellow, fluid, is discharged, attended with loss of ftrength, pain in the loins, bad digeftion, and a wan The quantity, colour, and confiftence, fickly afpect. of the discharge, chiefly depend upon the time of its duration, the patient's habit of body, and the nature of the caufe by which it was produced. Weakly women of lax folids, who have had many children, and long laboured under ill health, are of all the moft fubject to this difagreeable difease ; from which they unfortunately fuffer more fevere penance than others, as the niceft fenfations are often connected with fuch a delicacy of bodily frame as fubjects them to it. In Holland it is very frequent, and in a manner peculiar to the place, from the dampness of its fituation; the furrounding air being fo overcharged with moifture as to relax the body, ftop perspiration, and throw it upon the bowels or womb; producing in the first a diarrhea or flux, in the last the fluor albus or female weakness. The discharge often proceeds from the vessels subservient

vient to menftruation; becaufe, in delicate habits, where thofe veffels are weak, and confequently remain too long uncontracted, the fluor albus fometimes immediately follows the menfes, and goes off by degrees as they gradually clofe. It alfo comes from the mucus glands of the womb, as is particularly evident in very young females of eight or ten years old; in whom, though very rarely, it has been obferved, and where it muft then neceffarily have efcaped from thofe parts, as the uterine veffels are not fufficiently enlarged for its paffage at fo early a period.

Sometimes, as in women with child, it proceeds from the passage to the womb, and not from the womb itfelf; which, during pregnancy, is clofely fealed up, fo that nothing can pass from thence till the time of The application of those instruments called labour. peffaries, from the pain and irritation they occafion, are also apt to bring on this discharge. The fluor albus has been fuppofed to fupply the want of the menfes; because, where the first prevails, the last are generally either irregular or totally wanting : but it might more properly be faid, that the prefence of the fluor albus, which is a preternatural evacuation, occafions the abfence of that which is natural; as is evident from the return of the menfes after the fluor albus has been eured. Indeed, when this difcharge appears about the age of thirteen or fourteen, and returns once a month, with fymptoms like those of menses, then it may be deemed strictly natural, and therefore ought not to be flopped. The fluor albus may be diftinguished into two kinds.

The first arises from a simple weakness, or the kinds. relaxation of the folids; which may either be general, where the whole bodily fystem is enervated and unftrung; or partial, where the womb only is affected. in confequence of hard labour, frequent miscarriages, a fuppreffion or immoderate quantity of the menfes, or a strain of the back and loins. In the first cafe, the discharge being generally mild, may be easily taken In the fecond, it may proceed from a vitiated away. or impure blood, where the body, from thence, is loaded with groß humours, which nature for her own fecurity and relief thus endeavours to carry off. In fuch cafes, the discharge is often of a reddish colour, like that from old ulcerous fores; being fometimes fo fharp as to excoriate the contiguous parts, and occafion a fmarting and heat of urine. A deep-feated darting pain, with a forcing down, attending fuch a difcharge, is a very dangerous and alarming fign, and indicates an ulcerated or cancerous womb. This malignant state of the difeafe, if of long continuance, is extremely difficult of cure; and disposes the patient to barrenness, a bearing down, dropfy, or confumption. In fhort, as this is a malady of the most difagreeable kind, which by long continuance or neglect becomes difficult of cure, and often proves fatal, it were to be wished that women, on fuch occasions, would be more attentive to their own fafety, by using all possible means, in due time, to prevent the diforder.

As women are fometimes connected with those who do not confcientioufly regard their fafety, it is a circumftance

Digitized by Google

cumitance of the utmost confequence to diffinguish a fresh venereal infection from the fluor albus or whites: for, if the first be mistaken for the last, and be either neglected or improperly treated, the worft confequences may arife. In addition therefore to what I have flated in page 219 of my Family Phyfician, the following figns will ferve to inform the patient whether there be occasion for her doubts or not. A fresh infection, called gonnorrhœa, is malignant and inflammatory; the fluor albus most commonly arises from relaxation and bodily weaknefs: and therefore the remedies proper in the first diforder would render the last more violent, by locking up and confining the infectious matter. In. the gonorrhœa, the discharge chiefly proceeds from the parts contiguous to the urinary paffage, and continues whilft the menfes flow; but in the fluor albus it is fupplied from the cavity of the womb and its paffage, and then the menfes are feldom regular. In the gonorrhœa, an itching, inflammation, and heat of urine, are the fore-runners of the discharge; the orifice of the urinary passage is prominent, and the patient is affected with a frequent irritation to make water. In the fluor albus, pains in the loins, and lofs of ftrength, attend the discharge; and, if any inflammation or heat of urine follow, they happen in a lefs degree, and only after a long continuance of the difcharge, which, becoming tharp and acrimonious, excoriates the furrounding parts. In the gonorrheea, the difcharge fuddenly appears, without any evident cause; but in the fluor albus, it comes on more flowly, and is often produced

M

89

Digitized by Google

by

by irregularities of the menfes, frequent abortion, strains, or long-continued illness. In the gonorrhœa, the difcharge is greenish or yellow, less in quantity, and not attended with the fame fymptoms of weaknefs. In the fluor albus, it is also often of the fame colour, efpecially in bad habits of body, and after long continuance; but is ufually more offenfive, and redundant in quantity. The whites often afflict maids of a weakly conflictution, as well as married women and widows; and indeed there are few of the fex, efpecially fuch as are fickly, who have not known it more or lefs. For whatever difease renders the blood poor, foul, or vifcous, and reduces a woman to a languid condition, is commonly fucceeded by the whites, which, when they come in this manner, continue to weaken the body more and more, and are in great dangar, without fpeedy remedy, of wearing away the patient, and making her a miserable victim to death. Let no woman, therefore, neglect this diforder, when the finds it on her, but endeavour to obtain an immediate cure. The regimen and general management are pointed out in the Medical Part of my Family Phyfician, page 220; but, in lieu of all other medicines, make a decoction of tormentilroot, biftort, comfrey, and red-role leaves; take a gillglass three parts full, and add to it thirty or forty drops of the Lunar Tincture, which must be perfisted in morning, noon, and night, for ten days; then take it morning and evening only for ten days more; after which difcontinue the decoction, and take the Tincture every morning for a month, twenty drops in a wineglass

glais of cold ipring-water, the difease will be found gradually to abate : and, upon any fymptoms of a return of it, take fifteen to twenty drops of the Tineture in a wine-glais of cold water every morning for a week, and it will go entirely off; as hath been verified in a great number of patients, who are ready to teffify that they owe their cure, even in the most obstinate cases, entirely to the Lunar Tinchure.

OF BARRENNESS, OR INFERTILITY.

Barrennels is fuch a flate of a woman's body, as indisposes it, upon the use of the natural means, to conceive and propagate her fpecies. This proceeds from many fources, which may be reduced to thefe two general heads: First, --- An indisposition of the parts to receive the male femen in the act of copulation, or that vital effluvium streaming from it, which alone can impregnate the ovaria. Secondly, --- An inaptitude in the blood to retain and nourish the vital principle after it is communicated, fo as to make it grow and expand its parts, till it becomes a proper fœtus. Conception is alfo hindered by a hectic, hydropic, or feverifh, fickly habit; by a deficiency or obstruction of the monthly courses, which impoverishes the fluids; by the whites, which, continuing too long, relax the glands of the womb, and drown, as it were, the prolific particles; and too often by a vice, which utterly destroys the tone and vigour of the parts; as is fully exemplified in my Family Phylician, page 221. Preparatory to the cure of infertility, it is proper to use evacuations, unless any

M 2

particular

TPE

92

particular fymptom shews them to be dangerous. Bleeding, lenient purgatives, fuch as the folutive electuary, and a gentle vomit of ipecacuanha, especially if the perfon be plethoric or cacochymic, cannot but be of great fervice; then proceed with the following ftrengthening electuary: take roots of fatyrion or eringo candied, of each one ounce; powders of cinamon, fweet-fennel feeds, and preferved ginger, of each half an ounce; mace, roots of contrayerva and Spanish angelica, of each one drachm; troches of vipers, one ounce; juice of kermes, fix drachms; tincture of cantharides, half a drachm; fyrup of cloves, a fufficient quantity to make an electuary. Let the quantity of a large nutmeg be taken every morning early, at about five o'clock every afternoon, and at night going to bed; and, immediately after taking the electuary, drink a wine-glass full of the following infusion, adding to it from twenty to thirty drops of the Lunar Tincture, viz. take cinnamon powdered one ounce; of fweet-fennel feeds bruifed, and lavender-flowers, of each half an ounce; Spanish angelica-root, ginger, contrayerva, mace, and cochineal, of each one drachm and a half; canary-wine, two quarts: infuse according to art for two or three days, and strain off the infusion for use. Continue the electuary for ten days fucceffively; then omit a week, and continue it for ten days more; after which continue the infusion and Tincture only, three times a day, for ten days more; then take it only twice a day for a month, or as long as the cafe requires, adding from fifteen to thirty drops of the Tincture

Tincture to each glafs, as the age or conflitution of the patient may require. This courfe will be found moft excellent for barrennefs and debility; particularly while thus affifted by the Lunar Tincture; which will greatly warm and rectify the blood and juices, increafe the animal fpirits, invigorate and revive the whole human machine, and not only raife the appetite to venereal embraces, but remove the ufual impediments to fertility; prepare the womb for performing its office, and the ova for impregnation. The Tincture warms, comforts, and excites, the generative parts to admiration, and feldom fails of curing all common occafions of barrennefs, in a month or fix weeks, if duly followed; as a proof of which I beg leave to add the pleafing circumftances of the following fingular

CASE.

A young lady of rank and fortune, but of a delicate frame, entered into the marriage-ftate about four years ago. Inftead of deriving from it that blifsful gratification which gives the honoured name of mother, fhe became weak, languid, pale, and melancholy. The whole nervous fystem was relaxed, --- the natural functions of the body were fuspended, --- cedematous tumours obstructed the fanguiferous passages, whence incurable barrenness, and lingering confumption, were the fad profpects left in view. In this melancholy state of body and mind, by advice of her phyfician, when all hopes were at an end, fhe was put under a regular course of the Luuar Tincture, which, to the aftonishment of all, gradually deturged the obstructed veffels ---propelled

---propelled the animal juices through the fyftem--ftrengthened and braced the nerves---induced a regular habit---reftored the fparkling eye and blooming cheek, and gave new vigour to the animal functions---the refult of which has been, that before the end of the enfuing year, after her health was thus recovered, the lady became the happy mother of a SON and HEIR, to the inexpressible joy of an affectionate husband and a fympathising family !---For the fake of females labouring under a fimilar difeafe, reference to the above pleafing fact is permitted to be had by all respectable enquirers, at the author's house, in Upper Titchfield-street, Cavendish-fquare.

INDISPOSITIONS ATTENDANT ON PREGNANCY.

Though pregnancy is not a difeafe, but rather a natural alteration of the animal economy, which every female is formed to undergo, yet it is attended with a variety of complaints, which require great attention; but for the cure or alleviation of which, medical aid bas proved very deficient. In these complaints, however, the Lunar Tincture exerts most extraordinary properties, and excels whatever has been heretofore offered under a medical form. It is an universal purifier of those heterogeneous particles which produce nausea, and arise from the combining efforts of the masculine and feminine tinctures; from whence, according to the grossing of the procreative fluids at the time of conception, proceed vomiting, pains in the head

head and fromach, fainting, &c. occafioned by the jarring elements arifing from the difproportion in the heat and active principle of the conftituent parts of the male and female feed; which is not only attended with great debility and depression to the mother, in her whole nervous fystem, but often with hereditary difeafes, and dreadful confequences to the infant offspring. Indeed fo great has been the conflict of the male and female procreative tinctures for the maftery or predominant power, while paffing through the circulating mafs or habit of the mother, that the most curious and astonishing phenomena have, on many occasions, been observed to refult from it. In a fmall village in Somerfetshire, in the year 1759, a girl was born with the hair on her head of two remarkably diftinct colours; the right fide, from an exact parallel line which divided the skull into two equal parts, was almost black; but the left fide, from the fame line, was of a reddifh yellow. As fhe grew up, the dark hair became of a jet black, exactly like that of her father; whilft the other became of a ftrong carroty red, precifely refembling that of her mother; and, after the age of puberty, the hair on the privities, and under the arm-pits, as well as on her arms and legs, was diversified in the fame manner; that on the right fide, all the way down, from head to foot, being black; whilft that on the left was entirely red. The young woman lived till the 28th year of her age, and was reforted to as a great curiofity.

Another well-known yet remarkable inftance of this sonfliet of the male and female procreative tinctures at

. 3

95

the

the time of impregnation, was the cafe of a man who a few years fince kept a public house in Tooley-ftreet, Southwark. His father was a white man, belonging to one of the West-India packets; and his mother was a negro girl, whom he had taken a fancy to, and purchafed on the arrival of one of the Guinea flave-fhips at the ifland of Jamaica. He brought her with him to London, and in the course of the enfuing year, she was delivered of a fon, the whole right fide of which was white like the father; but the whole of the left fide was black like the mother. As he grew up, this visible distinction became more strongly marked; and during the time he kept the above public-house in Tooley-street, he was reforted to by an immense concourse of people, who flocked there to fpend their mite, in order to be fatisfied that fo great a curiofity really exifted. The whole of his body appeared to be interfected by an exact parallel line, by which the efforts of conception feem to have united the male and female tinctures in precife equilibrio, without fuffering them to intermix in coagula, or in impregnating and expelling the ovum from the ovaria, to its fuspended state in the uterus. Hence the hair on the right fide was long and brown, like that of the father; and half the face, neck, body, and privities, with the arm, thigh, leg, and foot, on the right fide, were white; while the corresponding parts on the left fide were black, like that of the mother, with half the hair on the privities and head black and woolly, exactly like that of a true negro.

A ftill

Digitized by Google

g6

A still more curious and striking example of this astonifhing effort in the male and female procreative fluids, is verified in the cafe of Mr. John Clark, of Prescot-His father was a native of street, Goodman's-fields. Africa, who, by dint of good fortune, had amaffed a confiderable fum of money, and fettled in London. He married a remarkably healthy young woman, a native of Devonshire, who had been some time his By her he had two fons and three daughters, fervant. who were mulattos, except the eldeft fon, who was the first born, and the perfon above alluded to. From the head to the navel, all round his body, he was remarkably fair, had a fine skin, handsome round features, light-brown hair, and fanguine complexion, like his mother; but from the navel downwards he was completely black, with fhort black woolly hair on the privities, exactly like the father. At the age of thirty, he married a young lady of good family and fortune, but of a delicate dilposition. For near three months he had the address to conceal this deformity of colour from the knowledge of his wife, by wearing flefh-coloured filk drawers and ftockings, which he pretended were lined with flannel to keep off the rheumatifm, with which he had been forely afflicted, even to a degree that endangered his life, every time he attempted to It happened however, from fome leave them off. neglect of concealment before going to fleep, that the curiofity of his wife was ftrongly excited; and the opportunity proving favourable in other refpects, it being N

Baverische Staatsbibliothek München

quite

97

quite day-light in the morning, and her husband fast asleep, she eagerly proceeded to satisfy her doubts. Gently turning down the bed-clothes, and removing the other impediments in the way of a complete infpection, fhe no fooner difcovered the real ftate of things, than the thricked out vehemently, and fainted away ! The hufband, thus fuddenly awakened, beheld his wife in a fit, and faw with forrow and regret the confequences of a difcovery which entirely refulted from his own neglect. He immediately arofe, called up the fervants, and procured medical affiftance with all convenient fpeed ; but in vain---the fudden furprife, added to the mortification and terror of mind, had fo powerful an effect, that the lady died in convultions, nearly two months gone with child. I have often lamented that fortune did not throw me in the way at this critical juncture, for two reasons; in the first place I have the vanity to think I could have faved the patient's life; but, had I failed in that, I would have perfuaded Mr. Clark, from motives of philosophical speculation, and for the improvement of medical fcience, to have fuffered me to open the womb of this unfortunate lady, in order to extract the foetus; which, under the circumfances of the uncommon conformation of the father, might have enabled me to throw a light on this very curious fubject of occult enquiry, perhaps fo as to have accounted, more obvioufly, for the jarring conflicts and ftruggling efforts of the malculine and feminine tinctures; to which alone we are to look for the formation

tion of hermaphrodites, the production of monfters, &c.*

Sympathy and antipathy most certainly operate very powerfully on females in the early state of pregnancy, and might, as was then suggested, have had a principal share in carrying off the above unhappy patient, while no means were used to counteract their influence on the mass of blood. Sudden frights, longing and loathing, and all marks on the focus, are obviously derived from this cause, and can only be corrected by giving energy and stimulus to the circulating states, whereby the functions both of mind and body are strengthened, and

* We find many fimilar accounts, in different authors, of partycoloured people. Thus we are told, by Buffon and others, that copulation of a black man with a white woman hath often produced a pied or fpotted race, living inftances of which are to be found in both the Indies. A very remarkable cafe is that of Maria Herig, who was fpotted all over the body, and covered with hair, like the She was born at Dackstull in Lorraine in 1770, and was leopard. exhibited in Paris in 1774. Both the fkin and the hair were of a tan-colour; and befides thefe hairy fpots, her ftomach and belly were covered with longifh hair, of a brown colour on one fide, and lighter on the other .- Somewhat fimilar, and not lefs remarkable, was the porcupine man, who was born in Suffolk in 1710, and was exhibited in every principal town in England. The fkin of his body was covered with excrefcences like thorns or prickles; and about the thickness of packthread. His face, the palms of his hands, and the foles of his feet, were the only parts that were free from them. They were of a reddifh brown, and had fuch a degree of hardnefs and elasticity, as to rattle when the hand was moved over the body. They were half an inch long in fome parts, and fhorter in others. They did not appear till two months after his birth; but, what is most extraordinary, they dropped off every winter, and were renewed in the fpring. He had fix children, all of whom, like their father, were covered with these excrescences.

N 2

the

100

the nervous fluid fortified and protected against the fudden impression of external objects. It feems to be admitted by many eminent practitioners, that the difeafes incident to a pregnant state in the early months arife from fympathy; whilst those peculiar to the more advanced stages of gestation, are produced by the fretching and preffure of the uterus on the contigu-Thus heart-burn and diarrhœa, tenfion ous viscera. and pains of the breaft, nausea and head-ach, defire of unnatural food, tremors, and dejected spirits, fainting and hysteric fits, premature menstruation, and confequent abortion, proceed from the first of these causes; while coftiveness, stranguary, cramp, and cholic, appear to refult from the other. And though the celebrated Dr. Stahl, Dr. Cullen, and others, have fo much differed as to the theory of these difeases, yet they all agree that gentle opiates, aromatic infusions, ftrengthening bitters, and medicines calculated to give energy to the languid state of the circulation, and to purify the grofs and viscid elements which opprefs the ftomach and viscera, are the only proper remedies to be administered. Now the Lunar Tincture possesses the aromatic and aftringent virtues in an admirable degree; and is elegantly adapted to invigorate and affift the active faculties of nature, in expelling all vifcid humours from the ftomach and bowels; and being compounded of the most fubtle and occult elements, which preferve the vital principle, it hence produces the most falutary effects on all women in a state of pregnancy, by ftimulating the procreative faculty to the formation of the

the finest children; correcting and purifying the procreative fluid from infection or difease; preventing moles or falfe conceptions, removing all loathings, longings, or vomiting, and effectually preventing abortion, from any caufe whatever.---For thefe reafons, when a woman enters into a state of matrimony, she would do well to take twenty drops of the Lunar Tincture every other morning to promote conception; fhe fhould then continue it three times a week, from conception to the end of the fourth month; then it may be omitted till a fortnight before her time, when the thould take twenty drops in a wine-glass of cold fpring-water, every morning till her labour, at which time it will wonderfully strengthen her, assist her throws, facilitate the birth, promote the lochia, and carry off the after-She might take it occasionally during the pains. month, in any fymptoms of cold, fever, or hysterics, diluted in a wine-glass of warm barley-water, about the middle of the day.

Women who are fubject to miscarriages, should never fail to take this medicine, from the time they have reason to believe they are pregnant, until a full month after they have quickened. It may be taken once, twice, or thrice, a day, or every other day, as the urgency of the case may require, from twenty to thirty drops, in a glass of forge-water; or in fost springwater, in which common oak-bark has been steeped; and she will effectually get over all causes of abortion. Women after sudden miscarriages, or bad labours, will find wonderful relief by taking twenty drops of it in

a wine-glass of warm barley-water, for a week or ten days. Nurfes, alfo, whofe milk is griping, or defective, should take it once or twice a day, or as often as occafion may require. The intention will quickly be experienced, the milk will be purified and augmented, and all the fluid fecretions promoted in a manner productive of found health, both to the mother and child, --- In cafes where œdematous fwelling of the legs and labia are occasioned by the interruption of the refluent blood from the preffure of the diftended uterus on the vena cava;---in violent floodings---in nervous spasms--in epileptic fits, and in obstinate convulsions, where the vis vitæ must be supported by replenishing the vessels with the utmost speed--+recourse should be had to the Solar Tincture, which in the most dangerous cafes has been found to give immediate relief; and, if duly perfifted in, will fcarcely ever fail to effect a cure.

STATE OF WOMEN AT THE TURN OF LIFE.

The most critical and dangerous time of a woman's life is that wherein the menses cease to flow, which usually happens between forty and fifty years of age. The great change that this produces, by so copious a drain being turned into the habit without previous preparation, is the sole cause of its danger. Every woman must be more or less fensible when this period arrives, and should conduct herself accordingly; for, when the menses are about to go off, they appear for the most part irregularly, both in time and quantity, once in a fortnight, three, five, or fix, weeks; fometimes

times very fparingly, and at other times in immoderate quantities. For want only of neceffary care and attention, during the time that the menfes thus give fymptoms of their departure, many and various are the complaints that enfue; amongft which are cold chills, fucceeded by violent flushings of the face, and heats of the extremities; reftless nights, troublesome dreams, and unequal fpirits; inflammations of the bowels; spasmodic affections; stiffness in the limbs, swelled ancles, fore legs, with pains and inflammation; the the piles, and other fymptoms of plenitude. But all this might eafily be prevented, by attending to a due regimen, and taking these Tinctures, as occasion may require. Whenever a woman has reason to suspect her menses are about to leave her, let her lose four, five, or fix, ounces of blood, as her habit of body will admit; then let her make a decoction, by taking gentian-roots, one pound; fenna and orange-peels, of each half a pound; pour upon them a gallon of hot water, and, after it has flood twenty-four hours, pour off the liquor for ufe. Let her take from twenty to forty drops of the Lunar Tincture in a gill-glass full of the above decoction, every night and morning for ten days; then let her continue it every morning for ten days more, and afterwards once every two or three days, or oftener if the terms are of an ill colour and fcent, until they This courfe must be followed every are corrected. fpring and fall, for a month or fix weeks fucceffively, by all women who find their menfes come irregularly, or too fparing, until they entirely ceafe; after which let

104

1

let the patient put herfelf under a course of the Solar Tincture, for a month or fix weeks, taking one spoonful in a wine-glass of warm water every night and morning for a week; then let it be taken only once a day, in cold water, for the refidue of the time; and if she take, occasionally, two table-spoonfuls of the Solar Tincture, diluted in a tumbler of warm water, as a beverage after dinner or supper, instead of wine or brandy and water, it will be productive of great benefit in establishing an healthful state of her blood, and carrying off the viscid humours generally produced by the menstrual flux returning into the habit.

Should it at this time happen, which it often does, that the terms flow too abundantly, and produce a flooding, the patient must immediately lose fix or eight ounces of blood, and be kept as much as poffible at reft, with her head low, until the medicine has had time to take effect; let her diet be spare, but not too lax; and let her apply to the following courfe: Take conferve of red-roles, marmalade of quinces, juice of kermes, candied nutmegs, fyrup of quinces, and fyrup of coral, of each half an ounce; aromaticum rofalum, and aftringent faffron of iron, of each two drams; oil of cinnamon, fix drops; mix into an electuary, (which might be made up by any apothecary, if the receipt be fent him,) and take the quantity of a large nutmeg every day at noon for fix, eight, or ten, days, or longer, as the urgency of the cafe may require, drinking immediately after it twenty drops of the Lunar Tincture in a wine-glass of warm water; the flooding by this
mediately after it twenty drops of the Lunar Tincture in a wine-glass of warm water; the flooding, by this means, will gradually abate, the feverifh fymptoms will go off, the back will be ftrengthened, the wombveffels cleanfed, and the patient wonderfully reftored. After the tenth day, in most cases, the electuary might be difcontinued; and the Lunar Tincture should then be taken every morning for a month, from fifteen to twenty drops, according to the conftitution of the patient; by which time the parts will be braced, comforted, and coiled up; fo as to fear no danger of a relapfe. About a month after, let her undergo a courfe of the Solar Tincture, for the purpose of rectifying and ftimulating the mais of blood; this should be taken for a month; a table-fpoonful night and morning in a wine-glass of cold fpring-water for the first ten days; and then once a day only for the refidue of the times. the good effects of which will be fenfibly and quickly felt.

The intention of nature in returning this flux back into the habit, is to nourifh and preferve life, not to deftroy it. Until the age of puberty, girls require this blood for the fuftentation and nourifhment of their bodies; when that is fufficiently eftablifhed, it is applied to the purpofes of nourifhing the fœtus, and of fuckling the infant after it is born. When child-bearing ceafes, and the eve of life comes on, the flux is returned back, to comfort and preferve it; therefore, if women were but careful to obferve a regular courfe before this flux returns upon them, by adopting the O methods

105

Digitized by GOOS

methods I have prefcribed, and by taking the medicine foring and fall for two or three years previous to the 'time, they might not only escape the perils and dangers attendant on this period, but would lay the foundation 'of a fettled flate of health, and enjoy a found conflitu-'tion of body to extreme old age.

OF MASCULINE OR SOLAR DISEASES.

Solar difeases are all fuch as proceed from a hot and dry caule, or have their origin in the blood and lymph. For as the beams flowing from the fun are the fountain of life and heat to the great world, or universal fystem of nature, to the blood, flowing from the heart, is the fountain of 'life and heat to the little world, or universal fystem of the microcofm, or body of main. And again, 'as the fiream of 'rays from the fun regulates the leafons, and produces the variety of climites, fo the fream of blood in man's body, as affected by the fun, regulates and diversifies the form and figure of the whole race of human beings. As featons and climates are lubject to the external elements, which are full governed by the fuperior influence of the fun, fo are they rendered either mild, healthful, and productive; or turbulent, pestitential, and barren. Just fo the whole circulating mais is affected by change of climates and feations, and by all the variations and agitations of the external elements; and hence difeafes are induced in the blood, and are either mild, ardent, or acute, in proportion as the fanguiferous fluid becomes diffempered and impaired by the action of the ambient, or contiguous atmosphere. Thus

Thus we perceive the folar influence on the human frame, and discover that the origin of disease is in the blood; for, no longer than this vital stream is kept in due circulation, pure, and uncontaminated, can animal life be fuffained, or the body preferved in health and vigour.

From the express words of scripture, Levit. xvii. 11, 14. Deut. xii. 23. we are warranted to infer, that " in the BLOOD is the LIFE;" and there is not a doubt but the living principle of the blood conftitutes the life of the body. Of this opinion was the celebrated Hervey, as well as many of the ancient philosophers and phyficians; and the late Mr. John Hunter declared himfelf to be of the fame way of thinking. Wefind the blood unites living parts, in fome circumstances, as certainly as the yet recent juices of the branch of one tree unite it with that of another. Were either of these fluids to be confidered as extraneous or dead matters, they would act as stimuli, and no union would take place in the animal or vegetable kingdoms. This argument Mr. Hunter established by the following experiment. Having taken off the tefficle from a living cock, he introduced it into the belly of a living hen. Many weeks afterwards, upon injecting the liver of the hen, he injected the tefficle of the cock likewife, which had come in contact with the liver, and adhered to it. In the nature of things, there is not a more intimate connection between life and a folid than between life and a fluid. For, although we are more accustomed to connect it with the one than the other, yet the only 0 2

real

107

108

real difference which can be fhewn between a folid and a fluid is, that the particles of the one are lefs moveable among themfelves than those of the other. Befides, we often see the same body fluid in one case and folid The blood will also become vascular like in another. other living parts. Mr. Hunter affirms, that, after amputations, the coagula in the extremities of arteries form veffels, and may be injected by injecting thefe arteries; and he had a preparation by which he could demonstrate vessels rifing from the centre of what had been only a coagulum of blood, and opening into a ftream of circulating blood, If blood be taken from the arm, in the most intense cold which the human body can bear, it raifes the thermometer to the fame height as blood taken in the most fultry heat. This is a strong proof of the blood's being alive; for living bodies alone have the power of refifting great degrees both of heat and cold, and of maintaining in almost every fituation, while in health, that temperature which we diftinguish by the name of animal heat. Blood is likewise capable of being acted upon by a ftimulus; for it coagulates from exposure, as certainly as the cavities of the abdomen and thorax inflame from the fame caufe, The more it is alive, that is, the more the animal is in health, it coagulates the fooner on exposure; and the more it has loft of its living principle, as in the cafe of violent inflammations, the lefs it is fenfible to the ftimulus produced from its being exposed, and it coagulates the later. We may likewife obferve, that the blood preferves life in different parts of the body, When

When the nerves going to any part are tied or cut, the part becomes paralytic, and lofes all power of motion; but it does not mortify. If the artery be cut, the part / dies, and mortification enfues. What keeps it alive in the first cafe? nothing but the living principle, which alone can keep it alive; and this phenomenon is inexplicable on any other fuppofition, than that the life is contained in the blood. Another argument is drawn by Mr. Hunter from a cafe of a fractured os humeri. A man was brought into St. George's Hofpital for a fimple fracture of the os humeri or arm, and died about a month after the accident. As the bones had not united, Mr. Hunter injected the arm after death. He found that the cavity between the extremities of the bones was filled up with blood which had coagulated. This blood was become vafcular, or full of veffels. In fome places it was very much fo. He does not maintain that all coagulated blood becomes vafcular: and indeed the reason is obvious; for it is often thrown out and coagulated in parts where its becoming vafcular could answer no end in the system : as, for example, in the cavities of aneurifmal facs. If it be fuppofed, that, in fuch cafes as that just now mentioned, the veffels are not formed in the coagulum, but come from the neighbouring arteries, it is equally an argument that the blood is alive: for the fubstance into which veffels shoot must be fo. The very idea, that fuch a quantity of dead matter as the whole mais of blood circulates in a living body, is abfolutely abfurd,

Thofe

HO MEDICAL MERROR.

Those who have ventured to oppose this doctrine, and the evidence of fcripture with it, confider the brain and nervous fyshem as the fountain of life; and that, to far from receiving its life from the blood, the neryous fyftem is capable of inftantaneoufly changing the crafis of the blood, or any other animal fluid; and though the nervous fystem cannot continue its action for any length of time, if the action of the bloodvessels is fuspended, yet the heart and blood-vessels cannot act for a fingle moment without the influence For this reason, fay they, it is of the nervous fluid. plain we must suppose the nervous system, and not the blood, to contain properly the life of the animal, and confequently to be the principal vital organ. The fecretion of the vital fluid from the blood by means of the brain, is, by the supporters of this argument, denied. They fay, that any fluid fecreted from the blood must be aqueous, inelastic, and inactive; whereas the nervous fluid is full of vigour, elastic, and volatile in the highest degree. The great necessity for the circulation of the blood through all parts of the body, notwithfanding the prefence of the nervous fluid in the fame parts, they fay is, because fome degree of tension is necessary to be given to the fibres, in order to fit them for the influx of the nervous fluid ; and this tenfion they receive from the repletion of the blood-veffels, which are every where difperfed along with the beryes.

To follow this opinion through every argument would prove tedious and unneceffary, as the following thort

mort observations will decide the matter absolutely against the patrons of the nervous fystem. In the first place, then, if we can prove the life of the human body to have been communicated from a fluid to the nervous fystem, the analogical argument will be werv Arongly in favour of the supposition that the cafe is in fill. Now that the cafe once was fo, is most evident; for the human body, as well as the body of every other living creature, in its first state, I have shown to be a gelatinous mafs, without mulcles, nerves, or bloodveffels. Neverthelefs, this gelatinous matter, even at that time, contained the nervous fluid. Of this there can be no doubt, because the nerves are formed out of it, and have their power originally from it; and what is remarkable, the brain is observed to be that part of the animal which is first formed. Of this gelatinous or procreative Huid we can give no further account, than that it is the nutritious matter from which the whole body appears to be formed. At the original formation of man and other animals, therefore, the matritions matter was made the substratum of the whole body, confifting of mulcles, nerves, blood-vessels, &c. nay more, it was the immediate efficient caufe of the nervous power itfelf. Again, in the formation of the embryo, we fee a vital principle exifting as it were at large, and forming to itself a kind of regulator to its cown motions, or a habitation in which it chooses to refide, rather than to act at random in the fluid. This habitation, or regulator, is undoubtedly the nervous fystem; but at the same time, it is no lefs evident that a nu-

HI2 MEDICAL MIRROR.

a nutritious fluid is the immediate origin of these fame nerves, and of that very nervous fluid. Now we know, that the fluid which in the womb nourishes the bodies of all embryo animals, is neceffarily equivalent to the blood which nourishes the bodies of adult ones; and confequently, as foon as the blood became the only nutritious juice of the body, at that fame time the nervous fluid took up its refidence there, and from the blood diffused itself along the nerves, where it was regulated exactly according to the model originally formed in the embryo. Perhaps it may be faid, that the vital power, when once it hath taken possession of the human or any other body, requires no addition or . fupply, but continues there in the fame quantity from first to last. If we suppose the nervous power to be immaterial, this will indeed be the cafe, and there is an end of reasoning upon the subject; but, if we call this power a volatile and elastic fluid, it is plain that there will be more occasion for recruits to fuch a power than to any other fluid of the body, as its volatility and elafticity will promote its escape in great quantities through every pore of the body. It may perhaps be objected, that it is abfurd to fuppose the blood capable of putting matter in fuch a form as to direct its own motions in a particular way: but even of this we have a positive proof in the cafe of the electric fluid. For if any quantity of this matter has a tendency to go from one place to another where it meets with difficulty, through the air for instance, it will throw small conducting fubstances before it, in order to facilitate its progress. Alfo.

Alfo, if a number of small and light conducting fubstances are laid between two metallic bodies, fo as to form a circle, for example, a shock of electricity will deftroy that circle, and place the fmall conducting fubstances nearer to a straight line between the two metals, as if the fluid knew there was a fhorter passage, and refolved to take that, if it should have occasion to return. Lastly, it is universally allowed, that the brain is a fecretory organ, made up of an infinite number of fmall glands, which have no other excretories than the medullary fibres and nerves. As a confiderable quantity of blood is carried to the brain, and the minute arteries end in these small glands, it follows, that the nervous fluid must come from the blood. Now, there is no gland whatever, in the human or any other body, but will discharge the fluid it is appointed to fecrete, in very confiderable quantity, if its excretory is cut. Upon the cutting of a nerve, therefore, the fluid fecreted by the brain ought to be discharged; but no fuch discharge is visible. A small quantity of glairy matter is indeed discharged from the large nerves; but this can be no other than the nutritious juice necessary for their fupport. This makes it plain, even to demonstration, that the fluid fecreted in the brain is invifible in its nature; and as we know the nervous fluid hath it refidence in the brain, it is very probable, to use no stronger expression, that it is the peculiar province of the brain to fecrete this fluid from the blood, and confequently that the blood originally contains the · vital principle.

·P

This

Digitized by Google

This fact being established, I shall now endeavour to defcribe the action of quickening, or mode by which life is communicated to the child in the womb, which ufually takes place in the fifth month of pregnancy. Opportunities, however, of diffecting the human gravid uterus at or near this critical juncture occurring but feldom, it is with great difficulty that a fubject of this delicate and abstrufe nature can be treated with perspicuity, and is the principal caufe why it has not been attempted by former physiologist. I have already shewn, that the rudiments of the embryo puts forth four membranes, viz. the placenta, the navel-ftring, the chorion, and amnios, which contain the fluid above-mentioned, in which the foctus floats. Until the period of quickening arrives, the embryo poffeffes only vegetative life, fimilar to that of a common plant; and its growth is nourished and preferved by the fluid in which it fwims, until the nerves, veins, arteries, and vital organs, are entirely formed, and the circulation of its mother's blood is completed through them, which is conducted in the following manner.

The placenta is the medium by which the blood from the heart of the mother is communicated to that of the child; but to check its too rapid progrefs, which would overwhelm the tender veffels of the infant frame, the texture of the placenta is formed fimilar to that of a fponge, round like a cake, of confiderable dimensions, and capable of great absorption, being chiefly made up of the ramifications of the umbilical arteries and vein, and partly of the extremities of the uterine veffels.

Digitized by Google

The arteries of the uterus discharge their contents intothe fubstance of this cake; and the veins of the placenta, receiving the blood either by a direct communication of veffels, or by abforption, at length form. the umbilical vein, which passes on to the finus of the vena porta, and from thence to the vena cava, and heart of the infant, by means of the canalis venofus, a communication that is closed up in the adult. But the circulation of the blood through the heart is not conducted in the foctus as in the adult : in the latter, the blood is carried from the right auricle of the heart through the pulmonary artery, and is returned to the left auricle by the pulmonary vein; but a dilatation of the lungs is effential to the passage of the blood through the pulmonary veffels, and this dilatation cannot take. place till after the child is born, and has refpired. This deficiency, is therefore fupplied in the foetus by an immediate communication between the right and left auricle, through an oval opening, in the feptum which divides the two auricles, called foramen ovale. The blood in the foctus, is likewife transmitted from the pulmonary artery to the aorta, by means of a duct called canalis arteriofus, which, like the canalis venofus, and foramen ovale, gradually clofes after birth. The blood is returned again from the foctus to the mother through two arteries called umbilical arteries, which arife from the iliacs. These two vessels, taking a winding courfe with the vein, form with that, and the membranes by which they are furrounded, what is called the umbilical chord. These arteries, after ramifying. P 2 through

IIS:

through the fubftance of the placenta, difcharge their blood into the veins of the uterus, in fame manner as the uterine arteries difcharge their blood into the branches of the umbilical vein. So that, after quickening, the blood of the mother is conftantly paffing in at one fide of the placenta, and out again at the other, for the nourifhment of the child.

Now what we call the action of quickening, is that instantaneous, yet undescribable motion of the vital principle, which, the inftant the foetus has acquired a fufficient degree of animal heat, and is completely formed in all its parts, rushes like an electric shock, or flash of lightning, conducted by the fanguiferous and nervous fluids, from the heart and brain of the mother. to the heart and brain of the child. At this moment the entire circulation begins; the infant fabric is completely fet in motion; and the child becomes a living As foon, therefore, as the circulation commences. foul. the child ftarts into life; and the inftant the circulation ceases, life ceases alfo. This att of quickening is therefore derived from the blood, and is fo fenfibly felt by the mother, that the often faints, and feels an internal depression of her animal and vital powers, which may be faid, in fome meafure, to have departed from her. But the act of quickening does not take place in all women at the fame period, nor always in the fame woman at the fame diftance of time from her conception; nor is it governed by any given number of weeks or days after conception has taken place; but depends entirely on that inftant of time, when the joint influ-

ence





ence of animal heat, and an entire completion of the nerves, veins, arteries, and other parts and organs, of the foetus, are fitted and ready to receive and fupport a due circulation of the blood and juices; for this, and this alone, is the fource of quickening, and the beginning of animal life. Strong and healthy women will therefore quicken fooner than the weak and delicate, by reason that their procreative and stimulating powers are more robuft, and can fooner contribute that portion of animal heat, which is necessary to the entire completion of the foetus in all its parts; and which will happen fooner or later, according to the health and ftrength of the pregnant woman, and her fufficiency of menftrual blood to fupport the demand. For this flux will now be wholly taken up by the new fubject, until the hour of birth; after which it either renews its monthly evacuation, as being redundant in the mother; or, if fhe fuckles the child, it is then determined to the mammæ, and is converted into milk.

Such is this curious and most admirable contrivance of nature, for the re-production and propagation of mankind; and fuch the nature and event of that myfterious action of quickening, which has hitherto been involved in fo much darkness and obscurity, as to lead the unthinking multitude to suppose, that giving life to the foctus, was in every instance a new and distinct interposition of the Deity, instead of religiously imputing it to that primary exertion of his omnipotence, which, in the original formation of Adam, implanted in his nature the power of re-producing his like, and of

U.

118. MEDICAL MIRROR,

of imparting life and foul to his fpecies, by a fixed and immutable decree, to be continued down from father to fon, to the final end and confummation of this fublinary world. If the feed of Adam had not been originally endued with the gift of imparting life and fpirit to his future generations, how could the fouls of his defcendants be fubjected to original fin? Were any one child defcended from the race of Adam, to receive the gift of life and foul from a fubfequent exertion of the power of God, it would become a new and diftinct act of creation, and the offspring could not poffibly be contaminated by the fall, nor be fubjected to the miferies and misfortunes refulting from it, as having received its being from an independent caufe.

. I have, to the best of my ability, endeavoured to illustrate this occult process of nature, by means of the annexed copper-plate engraving, taken from a drawing of the vifcera and womb of an unfortunate female, who fainted and died at the time of quickening; the foetus itself being now preferved in fpirits. The ftructure of the gravid uterus is, however, extremely difficult to be fhewn, and the more fo under these peculiar circumstances. In the wombs of women who die after this period, or at the time of labour, or foon after delivery, fibres running in various directions are observable, more or lefs circular, that feem to arife from three diffinct origins, namely, from the place where the placenta adheres, and from the aperture and orifice of 'each' of the tubes ; with all the veins and veffels communicating to and from the placenta and the mother, furs. charged

Digitized by Google

charged with blood; but it is almost impossible to demonstrate regular plans of vessels and fibres, continued any length, without an interruption which involves us in doubt, and destroys that view of the admirable connexion which nature has formed between the vital organs of the mother and child in a state of advanced pregnancy,

From the foregoing observations we may fafely conclude, that the mass of blood is the universal medium by which life is propagated, and health preferved, to every class of beings; and that, in its impure or infected ftate, it is the fource from whence the endless number of hereditary difeases derive their origin. Whatever fault impairs the parent blood, fails not to taint the tender habit of its young; whence it has become an established maxim, that, as healthy parents naturally produce healthy children, fo difeafed parents as naturally produce a difeafed offspring. Some of these difeafes appear in the earlieft infancy; others occur equally at all ages; whilft others lurk unfufpected in the habit to extreme old age, or even to a new generation, flowly impairing the vital organs, and gradually undermining the constitution, before their fource, and fatal tendency, can poffibly be difcovered. There are fome difeases indeed, which, though born with us, cannot be faid to be derived from the parent, as when a foetus receives fome hurt by an injury done to the mother; while others, neither born with us, nor having any foundation in the conflitution, are fucked in with the nurfe's Let it then be the care of every parent, who milk. from

IIG

from fome local misfortune is fo far compelled to depart from the ties of nature as to abandon her tender offfpring to the breaft of another, to be fatisfied, as far as human forefight and medical penetration can reach, that the conftitution and blood of the nurfe be free from fcrophala, and every other hereditary impurity.

Accidental difeafes, though not derived from the parents, neverthelefs in general fpring from the blood; which, conftituting or propagating animal life through every part of the body, is neceffarily exposed to every external offending caufe, from which impression particular accidental difeases ensue. The climate itself, under which people live, will often produce thefe affections in the blood; and every particular climate hath more or less a tendency to produce a particular difeafe, either from its excess of heat or cold, or from the mutability of the weather. An immense number of difeafes are also produced in the blood by impure air, or fuch as is loaded with putrid, marshy, and other The fame thing likewife happens noxious, vapours. from high-feasoned or corrupted aliment, whether meat or drink; though even the best and most nutricious aliment will hurt, if taken in too great a quantity; not to mention poilons, which are endowed with fuch pernicious qualities, that, even when taken in the smallest quantity, they produce the most grievous ferment in the blood, ending perhaps with death itfelf. There are likewife other accidents and dangers to which mankind are exposed, that ingraft innumerable difeases in the mais of blood; fuch as the bite of venomous reptiles,

reptiles, or of a mad dog; an injudicious inoculation or mis-treatment of the fmall-pox, or meafles; the pfora, or itch; the venereal infection; also broken limbs, wounds, and contufions; which, though proceeding from an external caufe at first, fail not to impair the blood, and often terminate in internal difeases and premature death.

Man, however, is not left without defence against fo many and fuch great dangers. The human body is possessed of a most wonderful power, by which it preferves itfelf from difeafes, keeps off many, and in a very fhort time cures fome already begun, while others are by the fame means more flowly brought to a happy This power, called the autocrateia, or vis conclusion. medicatrix natura, is well known both to phyficians and philosophers, by whom it is most justly celebrated ; for this alone is fufficient for curing many difeafes, and and is of fervice in all. Nay, even the beft medicines operate only by exciting and properly directing this expulsive force, by which the excrementitious humours from the aliments and blood are expelled, through the proper channels of evacuation, through the excretory ducts, chiefly by means of the infenfible perspiration, by which power the offending humours from the blood and juices are perpetually flying off. But though phyficians justly put confidence in this power, and though it generally cures difeafes of a flighter kind, yet it is not'to be thought that those of a more grievous tendency are to be left to the unaffifted efforts of the footsteps of nature. Phyficians have therefore a two-fold

Q

error

error to avoid, namely, either despising the powers of the vis medicatrix too much, which, if left alone, would work a radical and perfect cure; or, putting too great confidence in these exertions of nature, they are left unfeconded and alone, till the virulence of infection or difease undermines the constitution, and bears down all before it.

The grand and perpetual means by which the foul and offending humours in the blood and juices are continually carried off, is undoubtedly through the perfpirative pores and veffels, which it is highly compatible with found health to keep open, and for which purpofe medicaments are principally ufed. When this evacuation is copious and gross enough to be differned by the eye, as in fweat, the perfpiration is faid to be fenfible; but where it is fo volatile as to escape the notice of the fenfes, as is the cafe in the ordinary state of the body, it is called insensible perspiration .--- The veffels through which the perfpiration is performed lie obliquely open under the fquammæ or fcales of the cuticle or fcarf-fkin. They are inconceivably fmall; from a calculation of Lewenhoek it appears, that the mouths of one hundred and twenty-five thousand of them may be covered with a common grain of fand. The most confiderable of these pores are the orifices of the ducts arising from the miliary glands. Through these vessels there is continually transuding a subtle humour, from every point of the body, and throughout the whole expanse of the cuticle. The matter evacuated this way is found by certain experience to be more

than

Digitized by GOOG

than equal to that evacuated all the other ways, i. e. by ftool, urine, &cc. Sanctorious found in Italy, under the circumftances of a moderate diet, middle age, and eafy life, that the matter infenfibly perspired was fiveeighths of that which was taken in for food: fo that there only remained three-eighths for nutrition, and for the excrements of the nose, ears, inteffines, bladder, &cc.

The fame author shews, that as much is evacuated by infenfible perfpiration in one day as by ftool in fourteen days; particularly that, in the space of a night's time, about fixteen ounces are ordinarily discharged by urine, four ounces by ftool, and above forty ounces by infenfible perspiration. He also observes, that, if a man eat and drink eight pounds in a day, five pounds of it are fpent in infenfible perfpiration; and adds, as to the times, that within five hours after eating there is perfpired about one pound; from the fifth to the twelfth hour about three pounds; and from the twelfth to the fixteenth fcarcely half a pound. M. Dodart, from a number of experiments made thirty-three years fucceffively, proves that we perfpire much more in youth than in age. In fome perfons the perfpiration is fo copious, that they void very little of the coarfer excrement, though they eat heartily. The benefits of infenfible perspiration are so great, that without it animal The general cause of life could not be preferved. perspiration is the circulation and heat of the blood, which enables it to throw off the offending matter. The great fubtlety, equability, and plenty, of the mat-

Q2

ter

ter thus perspired, its increase after sleep, &c. constitute the grand symptoms of a perfect state of health; and the chief means of preserving the same. On the contrary, the departing from these is the sirft sure sign of approaching diseases.

Perspiration is performed, preserved, and increased, by the vifcera, veffels, and fibres; by motion or exercise as far as the first appearance of fweat; by a moderate use of venery; by sleep of seven or eight hours, the body well covered, yet not loaded with bed-clothes: cheerfulness; light, fermented, yet folid, food, not fat; pure, not heavy, air, &c. The contraries of all thefe, as also the increase of the other excretions, diminish, prevent, and deprave, it. Hence we fee the caufe and effect of this perspirable matter, its use in preserving the parts foft and flexible, and in fupplying what is loft, but chiefly in preferving the nervous papillæ moift, fresh, lively, and fit to be affected by objects, and to transmit their impressions. Hence it is, that upon a stoppage of the usual perfpiration there arise fo many indifpolitions, particularly fevers, agues, rheums, &c. Too much perspiration occasions weakness, and swoonings; whilft too little, or none at all, occafions the capillary veffels, to dry, wither, and perifh. Hence alfo the larger emunctories come to be obstructed; hence the circulation is diffurbed, fharp humours retained; and hence putridity, crudity, fevers, inflammations, and imposthumes. Cold prevents perspiration, by conftringing the pores of the skin and thickening the liquors circulating in the cutaneous glands; heat, on the contrary.

Digitized by

contrary, augments it, both by opening the excretory ducts of the glands, and by increasing the fluidity and velocity of the humours. To determine the flate and conditions of the perfpiration, fo neceffary for judging of those of the body, Sanctorious invented a weighing chair, whereby he examined the quantity, degree, &c. of perfpiration in feveral circumstances of the body, under several temperatures of the air, and in the several intervals of eating, drinking, fleeping, &c.

Some of the more extraordinary phenomena observed in this fpeculation, are, that for fome time after eating the perspiration is least of all; that between the fifth and twelfth hour after meals perfpiration is greateft; that riding either on horfeback, in a coach or fhip, &c. brifk motion on the ice, &c. but, above all, a brifk friction of the fkin, promote perfpiration furprifingly; and that perfpiration is naturally always much lefs in women than in men. Perfpiration is influenced by the paffions of the mind. Thus anger and joy increase, and fear and fadnefs leffen, both perfpiration and urine. Anger causes a strong motion in the membranes of the heart, and quickens its contraction and dilatation, and thereby quickens the contraction and dilatation of the blood-veffels and fecerning ducts, and of confequence increases the discharges of perspiration and urine; and that more or lefs, in proportion to the ftrength and continuance of the paffion. Joy affects these discharges in like manner as anger. In the passions of fear and forrow, perspiration and urine are leffened, by the deprefiion of the activity of the foul under those passions. The

125

Joogle

Digitized by

126

The proportion of perfpiration to urine is increased by all those exercises which increase the motion of the blood, and warm the skin.

We have an account of a perfon who, by paffing many nights in aftronomical fpeculations, had his perfpiration fo obstructed by the cold and damp of the air in Holland, that a shirt he had worn for five or fix weeks was as clean as if it had been worn but one day. The confequence of this was, that he gathered fubcutaneous waters, but was cured in time. The garments best calculated to encourage and promote infenfible perspiration, to keep the mouths of the minuter vesfels open, and to guard the body from the too fudden and violent effects of cold, are those made of flannel. Whence flannel shirts and waistcoats, or a square piece of flannel worn over the breaft or pit of the stomach, particularly in the winter months, are productive of fuch beneficial effects to weakly and debilitated conftitutions, and act as a valuable prefervative to the hale and robuft. In the annexed copper-plate engraving, I have endeavoured to fhew the manner in which the infenfible perfpiration islues from the pores of the body, which can only be difcerned by means of a lens; being of fo volatile and fubtle a quality, that it paffes through our garments with the utmost ease, particularly if woollen; and it even ascends through the bed-clothes like a mift, in the greatest abundance when we are asleep, and the animal functions at reft.

In this manner nature, from all cafual obstructions, endeavours to relieve herfelf; and fo long as difeafes



Dodd del.

Published as the Act directs, June 20, 1794. by E. Sibly

Page saulo





are recent; and of a mild tendency, they are ufually carried off by this means, without requiring any aid. from medicine. When, however, difeafes are of long flanding, and the humours in the blood become too foul and viscous to be thrown off by the vis medicatrix nature, the whole habit is quickly vitiated, and the circulating mais becomes morbid; yet even in this infeded flate, the vital heat and activity of the blood ftrives to purify itfelf, by determining these morbid particles to the fkin, where they form fcabs, ulcers, pimples, and other fpots, as in the fcrophula, leprofy, Imall-pox, meafles, fyphilis, &c. or elfe the virulent matter is directed inwards, where, falling upon the lungs and other vifcera, death quickly enfues. Here then we may view the flocking confequences which refult from those, who enter into matrimony under a tainted or infected flate of the blood. Indeed perfons who are afflicted with the leprofy, fcrophula, or king's evil, should never marry until a perfect cure has been happily effected, and a pure and healthful state of the blood induced. To enter into wedlock under a venereal taint, is a most unwife, a most cruel, and an ungenerous, A man, with only a flight infection, by contact act. with the woman, will himfelf, perhaps, experience a perfect cure, in confequence of the foul and infectious matter being drawn from the parts by the female organs, feconded by the action of the rugæ and abforbent vessels on the furface of the vagina. But the unhappy female is fure to take the diforder, and, fhould fhe prove with child, she not only carries the poisonous in-

2

fection

Digitized by GOOGLE

fection into the marrow of her own bones, but brings an infant offspring into the world, devoted to mifery. and difease ; for whatever foul and infectious humour is implanted in the parent blood, it is immediately carried by the circulation to the vital organs of the child, just as the flame of one candle is by contact communicated to another. Nor can we be furprifed at these things, if we only reflect on what has already been adduced; and contemplate the fystem and œconomy of the human Confider only the powerful effects of a few frame. grains of cantharides, which, if externally applied, act as a burning caustic; but, if taken into the stomach, inftantly overturn the natural course of the circulation, by forcing the whole mais of blood into the extremities, but more particularly, and with great vehemence and turgidity, into the private parts; for which reason cantharides are taken with intent to cure the weaknefs and debility of the penis; but the truth is, that greater debility, and an emaciated constitution, is fure to follow, and not unfrequently inftant death.

If, then, fo powerful an effect can be wrought on the blood by fwallowing a few irritating particles of a fmall infect, may we not juftly infer, that by infufing into the circulating mass, particles congenial to itself, the utmost relief may be afforded to it, even in its most depraved and inactive state? From this confideration alone, we may venture to pronounce, that all diforders originating in the blood, might either be prevented or repelled, were such a medium discovered, by which we might infuse, immediately into the mass, a combination of

129

of fuch elemental principles as the blood and juices themfelves confift, in their pureft and moft elastic state ; for this, in fact, is the aim of all medicines; but which they miss by being administered in their gross form, and being obliged to pass the feveral digeftive operations of the ftomach, before they can reach the blood, whereby the principal part of their occult virtue is loft among the food, or fecreted in fuch fmall quantities as to produce very little effect. But a medium, poffeffing these congenial principles, ready digefted, and fo combined as to be taken inftantly, and without diminution, into the habit, would not only keep the cruor and the ferum in due proportion, which is fo effential to health, but would stimulate, correct, purify, and augment, the blood, as its reduced or difordered state might from time to time require. Such a medium, after infinite labour, and unlimited experience, I pronounce the Solar Tincture to be; and fuch will be found its operative effects, under whatever circumstances it may be administered, in any climate or feafon; the innocent and balfamic qualities of which are as grateful to the internal organs of the human frame, as the folar rays are cheering to the external; and it affords me no fmall gratification to avow, that, in offering it to the public, I invade no man's property, nor imitate any medicine at prefent known in public or private practice .--- The experiments I have made with it upon a variety of difeafed wretched objects, are innumerable; and I shall still continue to administer it gratis

R

to the poor, who are given over by others, or who have not the means of applying for medical affiftance.

The infinite variety of complaints an impure or infected state of the blood induces, almost exceeds belief; and hence the new and deceptive forms a fcrophulous or fcorbutic taint puts on, which often deceive the most eminent of the faculty, and baffle the best intention towards a cure. An impure or fcrophulous taint will invade the nobleft organs of the human frame, before the patient can be aware of his danger. In the first stage of its visible effects, a weary pain feizes the joints and muscles, attended with a wasting of the legs In the fecond ftage the gums fwell, grow and loins. painful, hot, and irritable, and bleed upon the flighteft preffure; the roots of the teeth become bare and loofe, and the breath naufeous. In the third stage, the gums grow putrid, the teeth black and rotten, the fublingular veins become varicofe, and the breath cadaverous; fætid blood diftils from the lips, gums, mouth, nofe, lungs, ftomach, liver, fpleen, pancreas, inteftines, womb, kidneys, &c. fcabs and ulcers break out in all parts of the body, and the joints, bones, and viscera, become morbid. In the fourth stage, putrid, eruptive, and fpotted, fevers enfue, which end in an atrophy, or elfe follow diarrhœas, dyfentery, dropfy, confumption, palfy, contractions, melancholy, and all the long and direful train of nervous diforders, which to defcribe would fill a volume

To counteract this most virulent of all chronic complaints, the utmost exertions of human skill have been employed.

ed by Gongle

The remedies prescribed in its different employed. ftages are almost innumerable. The object is to reduce the virulence of the infection, and to eradicate its feeds from the blood and lymph; to which end the mildest and most simple medicines are recommended. Mineral and tar waters, for their warm and ftimulating quality; milk or whey, from their fimilitude to the chyle; the cold bath, for bracing the folids and quickening the circulation; antifcorbutic vegetables, &c. for purging and fweetening the blood, fuch as fcurvygrafs, water-creffes, wormwood, hemlock, centaury, vervain, water-trefoil, juniper-berries, the Peruvian bark, fassafras, guaiacum, aloes, assa-foetida, camomile, diascordium, saffron, senna, rhubarb, manna, Æthiop's mineral, hartfhorn, native cinnabar, antimony, &c. When these fail, mercury, or a mercurial falivation, is looked upon as the only cure; which, in fact, is but to give the human frame its last vehement shock, and to fend the wretched patient in agonies to the grave !

The intention of all these remedies is to impregnate the blood with qualities opposite to those with which it is infected; and this must be done in a superior degree of force and power, before a cure can be completed. But these medicaments are often administered under such nauseous forms, and in so crude and unqualified a state, that they not only torture the patient, but miss entirely their intended aim. The nauseous taste of medicine is nothing but its großfer particles; which, instead of entering the stomach, to irritate and oppress its organs, ought to be drawn off by chemical process;

R 2

for

.Digitized by Google

for it is the occult virtue of every drug, not its groffer part, that performs the cure. Now the peculiar excellence of the Solar Tincture is, that it combines the ef-Tential and occult virtues of all fcorbutic vegetables, ready digested, concocted, purified, and resolved into an elegant balfamic effence, pleafing to the tafte, and grateful to the stomach. It flies immediately to the heart, whether internally or externally applied, blends and affimilates with the venal and arterial blood, which it generates, corrects, warms, purifies, animates, and impels, through the whole fystem. It cleanses all the vifcera, and glandular parts, particularly the lungs and kidneys; stimulates the fibres, whereby the gastric juice and digeftion are promoted; diffolves vifcid humours, and expels infection. It exerts very confiderable effects on the whole nervous fystem, fensibly raises the pulfe, ftrengthens the folids, and invigorates the It penetrates into the most intimate animal fpirits. parts, opens the mouths of the minuter veffels, reftores the natural perfpiration, and promotes all the fluid fe-In every stage of infectious difeases, and in cretions. all fudden epidemical diforders, which ufually follow from a wet, putrid, and unwholefome, state of the atmosphere, it is an absolute specific; and, as a preventive, an alterative, and purifier of the blood, it has not its equal in the world. It quickly relieves every common malady originating in the blood, fuch as relaxations, debility, lassitude, tremors, finking of the spirits, and all those nervous affections which harrafs and opprefs the weak, fedentary, and delicate; and are often the

the confequences of high living and luxuriant indulgencies, without bodily exercise and fresh air. In all these cases, the Solar Tincture is calculated to warm and fleady the cold tremulous nerves; to fheath and invigorate the muscular system; to animate the spirits; and renovate the whole man, whereby the chill watery fluids become rich and balfamic, and the circulating mass refumes its healthful state. It is an infallible cure for joint-achs, cramps, spasms, rheumatic-gout, nervous head-ach, agues, and all diforders arifing from In complaints of the breaft, obstructed perspiration. ftomach, and bowels, it gives immediate relief; and, in afthmatic and confumptive cafes, is an elegant and -It will ftop mortification in very expeditious cure. advanced ftages, by expelling the poifonous matter; and correcting the juices of the whole body. It requires no argument to convince, more than a fingle trial; after which, I think, no family who value their health or life will chufe to be without it; particularly under any of the following afflictions:

SCROPHULA, SCURVY, OR KING'S EVIL.

In the first and fecond stages of this diforder, a small table-spoonful of the Tincture, taken in a wine-glass of cold spring-water night and morning, will prevent the further progress of the disease, and in a very short time restore the blood to its healthful state, the effects of which will be so obvious to the patient, that he will be at no difficulty when to discontinue the medicine. In the third stage, it is often requisite that the medicine

be

be internally and externally applied. The mouth should be frequently washed with the Tincture diluted in warm water, and it will very foon expel the poilon from the gums. If the viscera be in a morbid ftate, which may be known by the excrements, or foulnels of expectoration, it will be necessary to take the medicine, night and morning, for feveral days, in the quantity of a table-spoonful undiluted; and, at noon, a table-fpoonful in the fame quantity of warm water. The scabs, whether dry or moift, should be frequently washed with the Tincture, undiluted, which, being abforbed by the minuter veffels, and taken into the habit, will expel the humour, and clear away the fcurf. If tumours or foul ulcers occur, wash them frequently with a dilution of the medicine in the fame quantity of warm water, until the heat and virulence be abated; then apply the Tincture undiluted, with lint or fine rags, by which means the infectious matter will be totally eradicated, the blood and juices purified, and the ulcers healed.

In the fourth ftage, whatever may chance to be the fad malady to which the diforder ultimately turns, a ftrict attention to regimen, exercife, and fresh air, as far as the strength and condition of the patient will admit, must be particularly attended to. And, in all these cases, the best and most simple methods of treatment are laid down in the Medical Part of my Family Phyfician, page 168, &c. to which I beg leave to refer every patient in this dreadful stage of the disease; and, in aid of the advice there given, let the Solar Tinc-

. 2

Digitized by Google

ture

MEDICAL MIRROR. 135.

ture he regularly perfifted in every night and morning, in the quantity of one table-fpoonful in as much warmwater; and, at twelve o'clock at noon, take a tablefpoonful undiluted .--- Let this be continued eight or ten days; then take a table-spoonful diluted in warm-water three times a day, morning, noon, and night, till the nerves and organs begin to refume their healthful tone; then let the dofes be gradually abated to a fpoonful in water every other morning, which should be continued till health is perfectly re-eftablished; and which, by God's bleffing, will generally happen, even in these desperate cases, in the course of a month or fix weeks .--- As a preventive of all foul or fcrophulous taints in the habit, and as an alterative, and purifier of the blood, it may be occasionally taken every other morning for a week together, particularly in the fpring and fall, in the quantity of a table-spoonful in a wine-... glafs of cold fpring-water; or it may be occasionally taken as a beverage after dinner or fupper, mixed in a tumbler with warm water, and made palatable with fugar. It will be found pleafant to the tafte, and grateful to the ftomach, superior to any spirits, or punch, The many inftances of elegant and uncommon cures effected by the Solar Tincture, on perfons of the first eminence, may be infpected at any time, on application at my house. But, at the particular request of the parties, I have here added the following remarkable

CASE.

Mr. R. Pinder, of Bramstone, near Bridlington, in Yorkshire, had been long afflicted with a violent fcorbutic

butic humour in his blood, which threw out fometimes dry, and fometimes moift, fcabs and tumours on the fkin. Being neglected, it at length pervaded the whole fystem, till, turning inwardly, it fell upon his lungs, and reduced him to the last stage of a confumption. In this deplorable ftate, given over by the faculty, left totally emaciated, and incapable of turning in his bed, he fortunately had recourse to the Solar Tincture. The first dofe was given undiluted, which threw him into a fine perspiration, and composed him to fleep, which had long been a ftranger to his eyes. After one large bottle had been administered agreeable to the bill of directions, at the end of a week he was fo much reftored, that with very little affiftance he was enabled to put on his own clothes; and, after continuing the medicine for little more than a month, he was able to walk abroad. And now, after having continued the Tincture night and morning, and occafionally using it as a beverage made fimilar to warm brandy and water, he has quite recovered his former health and ftrength; being, to the furprife of every body who beheld him in his late emaciated condition, as robust and hearty as it is well poffible for a man to be.

DEBILITATED, TAINTED, AND ENFEEBLED, CON-STITUTIONS.

Muscular debility was a misfortune but little known to our forefathers. Whether immured in venereal embraces, or facrificing at the shrine of Bacchus, moderation and seafonable hours directed the measure of their
their enjoyment. If revelry or voluptuousness by chance unstrung their nerves, gymnastic exercises and field fports, or the more pleafurable delights of the chace, quickly reftored them to their proper tone, --gave new vigour to the blood, --- health to the cheek, --- and lighted up afresh the flame of love. But now, how strange is the reverse. Habituated to effeminacy, and fed with dainties, --- revelling all night with wine, and ftretched on beds of down all day, --- fhut up in ftews and brothels, fcarcely breathing wholefomeair, --- clafped in the arms of tainted or diseafed females, until enjoyment palls upon the fenfes, and the mulcular powers abfolutely refuse their office, no wonder so many men are found old in every thing but years; whole conftitutions are fairly worn down, blood ftagnant, folids relaxed, fecretions diverted from their proper courfe, muscles debilitated, eyes funk, palid cheek, and spirits These are not half the evils refulting from this gone. fashionable fource of destructive folly. It may not be amifs, however, to defcribe the remarkable cafes of a few, of whom the Solar Tincture has made perfect cures, by infufing a new portion of health into the mass of blood; fincerely hoping, that a more wife and manly courfe of life will fhortly eradicate thefe difgraceful complaints, and reftore to the ladies a genuine race of Englishmen and Britons.

CASES.

PREMATURE DEBILITY.---A gentleman in the army, under thirty years of age, complained to me that he had all at once become incapable of enjoying his S wife.

137

wife. Sufpecting he was not married, I defired him to be open and candid, to relate to me his real fituation, and not a pretended one, which was only to impose on his own understanding. He thanked me for the rebuke --- faid he would be frank, and in a few words declared, That from exceffive luft, and continual debauch, he had loft his virility; and, to add to the misfortune, he was really on the eve of entering into the marriage state. In other respects he felt no diminution in his health or conftitution; and from external appearances, this was furely the last imperfection that could have been fuspected. His complexion was vigorous and lively, his flesh firm, and conformation excellent; yet, notwithstanding this, he was impotent to fuch a degree; that neither the ftrength of his own defires, nor the excitations of the female, could affect the part. It often happens, that though the organs remain found, yet if the nervous and feminal fluids have degenerated from a healthful state---if they are impoverished by being too much drained, or turned into an unnatural course, they cannot then perform their office, by reason that their moving powers, and stimulus on the blood, are become too weak to direct their force and action in the manner nature requires in the act of copulation. I therefore enjoined him to abstain entirely from all attempts of the kind, for three months at least; directed the ointment as in page 240 of the Medical Part of my Family Physician, with the Solar Tincture three times a day for two months; then twice a day, until he found it no longer necessary. After taking

Digitized by Google

138

taking fix large bottles, he generously thanked me for a more hale and robust state of body than he ever remembered to have enjoyed before. He has fince fent me feveral patients, in almost as debilited a state as he was himfelf, who are now ready to unite with him in giving full testimony to the renovating powers and peculiar efficacy of the Solar Tincture.

RELAXED HABIT.

Little more than three months ago, a gentleman, about fifty years of age, lately returned from the Eaft-Indies, applied to me for the cure of what he termed a He had made very free with the broken constitution. fable beauties of Bengal---had undergone a mercurial falivation, and appeared to be finking under an univerfal langour and debility of the whole muscular system. The fphincter of the bladder was fo weakened, that the urinary fecretion came from him by drops, in fo perpetual and involuntary a manner, as not to be perceived until the moifture of one fet of cloths became to fenfibly afflicting, as made it necessary to supply fresh ones, which ufually happened every hour. The corporeal functions were diffipated and relaxed, the tone of the ftomach and viscera was nearly gone, the tremulous nerves reluctantly performed their office, and the circulation was become ftagnant and morbid, I advifed an immediate recourse to the most nourishing food, with ftrong port-wine negus for his drink; and the Solar Tincture to be taken four times a day for the first month; three times a day for the second month; and

S 2

140

and once or twice a day afterwards, as occafion might feem to render neceffary. Before the expiration of twenty days, the fphincter mufcle acquired its proper tone, the pulfe became ftrong and regular, and the nervous tremors were confiderably abated. By the end of the fecond month, a renovation of the whole animal œconomy feemed to have taken place, and a vifible accumulation of blood and juices had retrieved the circulation. Before the expiration of three months, I had the gratification to fee this patient completely reftored to fuch a ftate of bodily health and ftrength, as utterly aftonifhed himfelf, after taking only eight large bottles of the Solar Tincture.

Hypochondriacal Debility, or Weak Nerves.

A gentleman in Oxfordshire lately came to town on purpose to confult me in this complaint. He appeared to be near thirty years of age, of middling stature, but of a weakly constitution. He had for upwards of feven years past paid his addresses to a lady, whom he had long promifed, and very much defired, to marry; but whenever he proposed in his mind to fix the day, or whenever it happened that he attempted to falute or embrace her, he was feized with an unaccountable tremor of the whole body, his fpirits funk, his virility left him, and a violent palpitation of the heart enfued. In fhort, he was fo diftruftful of his own powers, that he confessed it was the fear of not being able to perform the rites of the marriage-bed that had been the only and the fole cause of thus protracting his weddingday,

This is certainly a most fingular instance of the day. hypochondriacal affection, and of its derangement of the nervous fystem. The debility induced by it feems to arife from the weaker energy of the brain, the fault of which however, cannot be detected by the niceft anatomist. For this reason, we do not well know how fuch defect fhould be reftored ; but as nature, feemingly for this purpose, excites the motion of the heart and arteries, we must ascribe the continuance of fuch debility to the too weak re-action of the fanguiferous fyf-The heart will generally palpitate from a violent tem: excitement of the nerves, especially when the blood is endowed with too fmall a fhare of ftimulus, Hence palpitation from any affection of the mind, and from hysterics in women. Under whatever circumftances this hypochondriacal affection happens, it debilitates the whole animal machine, and renders the perfon unable to perform the proper offices of life. The proftration of fpirits, weaknefs, and langour, are often furprifingly great, though the pulfe feems tolerably ftrong, as being heightened by animal defire. The effect, however, is fure to produce a languid circulation, the blood feeming to adhere, with uncommon energy, about the region of the heart. I fufpect it is in these cafes that cantharides are most frequently used. The patient acknowledged, after fome hefitation, that he had tried them; but they only produced an involuntary though violent erection, by no means adapted to the cure, nor to the purpose he intended. Hence this remedy is not only inadequate, but extremely dangerous; for

for it too much exhausts the vital powers, and is followed by a vast dejection of spirits, tremors, startings of the tendons, &c. which bring on rigours, cold clammy sweats, syncope, and premature death.

The means, therefore, which nature points out for the cure of this species of debility, are directed to sup--port and increase the action of the blood through the heart and arteries; and the remedies to be employed are tonics and ftimulants. Of all the ftimulants, which in this constitutional defect may be advantageously employed, port-wine feems to be the most eligible. It has the advantage of being grateful to the palate and ftomach, and of having its ftimulant parts fo much diluted, that it can be conveniently given at all times and feafons, and may be employed with fufficient caution; but it is of little fervice unless taken pretty largely .---It may be fuspected that wine has an operation analogous to that of opium; and on good grounds. But we can diffinctly mark its fimulant power only; which renders its effects in the phrenitic delirium manifestly hurtful; but in cafes of debility as remarkably useful. - -Hence I directed the Solar Tincture to be taken morning, noon, and night, in ftrong doles, for the first month; once a day, or oftener, at the difcretion of the patient, until the end of the third month; but to drink every day after dinner, a pint of generous port; and to inform me at intervals the change he might find in his constitution. He took with him a dozen large bottles of the Solar Tincture, and before a month elapsed, I had the pleasure of receiving an epiftle of unfeigned

unfeigned thanks. He found himfelf fo much reftored by the courfe I laid him under, that, before the expiration of the three months, he married the lady; and I have no doubt will very fhortly have iffue.---I have been fomewhat more elaborate in defcribing the particulars of this cafe, having reafon to believe it is not an uncommon malady, and would therefore wifh to enable every patient to become as much as poffible a judge of his own infirmity.

Nocturnal Emissions, or Incontinence of the Semen.

A young man of robust make, and in the prime of life, being under twenty-fix years of age, applied to me for relief in the above unfortunate complaint. It appeared, that, from the time of puberty, he had found a weakness in the part, and an occasional difcharge of the feed, upon the flightest irritation. As he grew up to greater maturity, the malady increased upon him. Upon every attempt to have contact with a female, the femen passed involuntarily from him, before even a complete erection could take place, whereby his purpose was continually defeated. This defect grew upon him, until the bare fight or thought of any thing which tended to excite venereal defires brought away the feed; yet it had no affinity whatever to a gleet, because the emission never occurred but either in the attempt, or in the defire, of copulation; or under the influence of lascivious dreams. In proportion as this weaknefs grew upon him, his defire of familiarity

00c

Digitized by

rity with the fex became the ftronger; and, I am inclined to think, was the principal reason of the encrease of the malady, and of the nocturnal emiffions, which happened more or lefs every time he went to fleep. This inceffant discharge had reduced him to a meagre vifage, fallow complexion, hollow eyes, depression of spirits, and flow-fever; and a galloping confumption would foon have followed. I directed the Solar Tincture every morning at fun-rifing, at mid-day, and at fix o'clock in the afternoon, in the quantity of a wineglass full, with one third warm-water; and every night at going to bed, twenty drops of liquid laudanum, for the purpole of making his fleep too ftrong to be affected by the influence of dreams. This course, affifted by a strengthening regimen of calf's-foot jelly, veal-broth, and ftrong port-wine negus, had very quickly the defired effect. His fleep was perfectly found and calm, and, after the third night, he could not recollect the return of any nocturnal emifion. The ftrengthening ointment, directed in page 240 of my Family Phyfician, was used every other morning ; and, within the fpace of only two months, the feminal veffels were completely braced up, and the diforder fo totally removed, as not to leave a fingle fymptom of his former weaknefs.

ONANISM.

A youth, apparently under age, applied to me for the cure of a diforder, which, he faid, had deprived him of the power of erection, and of all fenfation in the privities.

In fo young a fubject, I could not fuppofe privities. this want of tone to arife from a general debility of the nervous fystem, particularly as no other fymptoms warranted the conclusion. I had a strong fuspicion it was the effect of Onanism, or fecret venery, which ufually ends in this fpecies of abfolute impotency; but He told me he had fome time ago this he denied. contracted the foul distemper, and through shame, and the dread of its coming to the knowledge of his parents, he had neglected to disclose his misfortune to any perfon, until the prefent malady was brought on. Of the foul diftemper, however, I could find no other fymptom than a fimple gleet; and, upon putting the neceffary questions, not a fingle reply corresponded with the ufual effects of that diforder. After half an hour's close examination, I brought him to confess what I above fuspected, that he had fo much addicted himfelf to this shameful and destructive vice, that the feminal veffels were completely relaxed; the erectories, the nerves, and glans, of the penis, had entirely loft their tone; an involuntary difcharge of the femen, without irritation, or turgidity of the parts, had long taken place, and brought on a want of appetite, an impoverished state of the blood, and an universal lassitude of the body. The lecture I gave him upon this occafion, will never, I truft, be effaced from his memory; and he has fince faithfully promifed that it I directed the ftrengthening electuary and shall not. ointment, in page 239 and 240 of my Family Physician, to be used as therein prescribed is then to take, T

four

four times a day, a table-fpoonful of the Solar Tincture in an equal quantity of warm water, for a month at leaft; then three times a day for the fecond month, and twice a day, in cold fpring-water, for the two months following; which gradually coiled up the debilitated parts, gave elafticity to the blood, retrieved the fenfation of the glans, and the fympathetic office of the erectories, braced the nerves, ligaments, and tendons, and gave that due tone and energy to the mufcular fyftem, which in lefs than four months reftored the patient to perfect health and vigour.

AN IMPURE OR TAINTED HABIT.

This malady, fo common among our diffipated youth, generally arifes from a venereal complaint badly Indeed the fcrophula, the king's evil, the lecured. profy, and other foul humours, when too long fuffered to prey upon the blood, will naturally induce this confequence; yet ninety-nine cafes out of every hundred, are found to refult from the improper use of mercury, either taken too abundantly into the ftomach, or too often applied externally, in the venereal difeafe. A gentleman in the militia very lately came to me under this misfortune, who had abfolutely worn down the organs of his ftomach by taking medicines for its cure, without obtaining the fmalleft relief. He was no fooner warm in bed, than deep-feated nocturnal pains attacked his arms, fhins, and head, which many of the faculty miftook for rheumatifm. The membranes, muscles, and ligaments of the joints, were scarcely ever free

Digitized by GOOGLE

free from pain; whilst carious ulcers occasionally broke out upon the ulna, tibia, and bones of the cranium. These symptoms had also deceived several of the faculty, who, taking his complaint to be a confirmed lues, still added to the malady, by loading him with fresh The truth is, that this diforder dofes of mercury. was by no means of a venereal nature, but was rather the confequence of the remedy than of the difeafe, fince it arofe entirely from the long and repeated dofes of mercury his body had fuftained, and which was grounded in his habit by falivation. The mercury had infinuated itfelf into the marrow of his bones, had vitiated every fluid fecretion, and tainted the very air he breathed. Under fuch circumstances I will allow, it is very difficult, if not almost impossible, for a physician, upon a fuperficial infpection, abfolutely to decide, whether the original difease hath been altogether overcome; yet furely he ought attentively to diffinguish and confider the feveral fymptoms apart; and then, by comparing them with each other, a clear judgment may be formed upon the general review. Finding, by this method, the real state of the patient's cafe, I ordered him a nourifhing diet, gentle exercife, and an abfolute denial of the fmallest intercourse with woman. To this he readily fubmitted, putting himfelf under a regular course of the Solar Tincture, which he took three times a day, in the quantity of a wine-glass three parts full, filled up with warm water, for the first month. At the expiration of this time he paid me a vifit, when his company was infinitely more agreeable, becaufe the T 2 pleafing

pleafing afpect of health had fuperfeded the naufeous effluvia of his difeafe. I now only enjoined him to follow the fame regimen and *abstemious* mode of living for a month or two longer, taking the Tincture diluted in a glafs of cold fpring-water once or twice a day, as he might find himfelf inclined. This he rigidly attended to; and I have now the pleafure to declare, that only nine large bottles of the Solar Tincture have reftored this gentleman from the most dangerous and deplorable state of a tainted and corrupted habit, to found health, and a renovated state of the blood and juices.

A TAINTED HABIT IN A STATE OF PREGNANCY.

This is the most shocking cafe my practice or expe-The patient was taken in larience ever produced. bour, and in the act of parturition the child prefented its right arm, which separated from the body while the operator was returning it into the womb. The life of the mother being defpaired of, I was fent for; when, on infpection, I quickly perceived conception had taken place under an infected state of one of the parents. I performed the refidue of the operation myfelf, and brought away the foctus without a farther feparation of the joints, but with great difficulty, fince it was ulcerated and half rotten with difeafe. By a most tender and judicious treatment of the woman, affifted by the Lunar Tincture, her life was preferved; and in the fpace of five weeks the appeared to have regained her health and ftrength; when, to the aftonishment of every

Digitized by GOOGLE

every one, she fell into a violent falivation. Being ' fent for upon this fingular occasion, I thought it right to interrogate the husband; when, after a vast deal of hefitation and diffembling, he confessed having had connection with his wife under a venereal infection: and with a view to prevent the confequences, he had prevailed on her to fwallow ftrong dofes of mercury, which I have reason to suppose lay dormant in the body until after her delivery; when the efforts of nature being no longer directed to the prefervation of the child, fuffered the mercury to attack the falival glands, and to produce the effect we have just described. I ordered her a spare but nourishing diet; worked off the mercury in the cuftomary way, and then began a courfe of the Solar Tincture. A table-fpoonful, in an equal quantity of warm water, was taken four times a day for the first week ; then three times a day until the end of the month; afterwards twice a day in cold fpring-water for a month longer; and then once or twice a day, or every other day, as the patient found convenient; by this means the happily experienced a complete cure in lefs than three months, and now enjoys a perfect state of health, defirous of certifying the fact to any unfortunate female, who, under fimilar circumstances, wishes to call upon me for that purpose. Indeed every woman, who has the misfortune to fuspect even the smallest taint of a similar nature to be lurking . in her blood, should put herfelf under a course of the Solar Tincture, and perfift in it every night and morning, in the quantity of a table-spoonful diluted in a wine-

150

wine-glass of cold spring-water, during the whole nine months state of pregnancy.

The above cafe brings to my recollection a very fingular inftance of an accidental falivation, brought upon a young lady by a foreign fubftance irritating one of the parotid glands; the particulars of which I shall here infert for the fake of those who may happen to be under fimilar circumstances .--- In the month of April, 1751, a young lady about the age of fixteen years, of a delicate habit, but fubject to no particular complaints, perceived the beginning of a difeafe which afterwards proved most obstinate and loathfome, viz. an inceffant spitting. The quantity of this discharge was different at different times, varying from one pint to two pints and a half in twenty-four hours. As to its quality, it feemed to be no other than the ordinary By fo large and confecretion of the falival glands. fant an evacuation, her ftrength became extremely impaired, and the most efficacious medicines had proved She had taken large quantities of the Peruuseles. vian bark, both alone and combined with preparations of iron: and afterwards the fetid gums, opium, amber, alum, and the Neville-Holt-water, had in fucceffion been given her. In the mean time an exact regimen had been prefcribed .: fhe had been ordered to ride conftantly; and to confine herfelf to a mucilaginous diet, fuch as veal, calves' feet, &c. Likewife a gently-opening medicine had now and then been interposed. The difease still continued unaltered; she had afterwards tried the tinctura faturnina; and had, at the fame

IGI .

fame time, been encouraged to chew the Peruvian bark, and to fwallow the faliva. But all these attempts had been vain ; and after fhe had taken fome or other of the medicines above mentioned until the end of September, 1753, namely, above two years, it appeared to her phyfician, Sir George Baker, unreasonable to expect relief in fuch a cafe from any internal medicines whatever. He now conceived a fufpicion, that fome extraneous body, having accidentally found its way into the meatus auditorius, might possibly be the caufe of this extraordinary fecretion, by keeping up a continued irritation in the parotid glands. With this view he examined her ears, and extracted from them a quantity of fetid wool. How, or when, it came thither, no account could be given. To this fubitance he attributed the beginning of the falivation, notwithstanding that the difeafe did not immediately abate on the removal of the wool; as it appeared to be no improbable fuppofition that the difcharge might be continued by the force of habit, though the original caufe no It feemed therefore expedient to longer remained. introduce fome other habit, in the place of the increased fecretion of faliva; which habit might afterwards be gradually left off. With this intention, he prevailed on the patient to chew perpetually a little dry bread, and to fwallow it with her fpittle. In a few weeks, it became neceffary for her to chew the bread only at certain hours in the day; and thus, after two months, fhe became entirely free from a most difgustful and tedious diforder .--- It is worthy of obfervation, that, at first,

Digitized by Google

the

the fwallowing of fo much faliva frequently occafioned a naufea; and that then, for a few hours, fhe was obliged to fpit it out as ufual; and that, during the greateft part of the time when fhe chewed the bread, fhe had a ftool or two every day more than common.

TABES DORSALIS, OR CONSUMPTION OF THE BACK.

A young gentleman, twenty-two years of age, applied to me in the above diforder, which had worn him down to a mere skeleton. The tabes is 'feldom diftinguished by any remarkable fever, cough, or difficulty of breathing; but is attended with want of appetite, a weak digeftion, and a morbid flate of the blood, whence the body grows languid, and waftes by Sometimes this fpecies of confumption is degrees. brought on by a venereal ulcer; but it most commonly proceeds from exceffive evacuations of the femen, which was the cafe with this patient. He had too early addicted himfelf to an intercourse with lewd women, which eventually brought on an involuntary fhedding of the feed, which came from him on the least exertion, whether of walking, riding, lifting a weight, or even of pulling off his clothes .--- I ordered him a ftrong nutritious diet, with a table-spoonful of the Solar Tincture four times a day, in the fame quantity of warm water, which he purfued for a month. He found his ftrength was fo much recovered, that I could fafely advise moderate exercise both on horseback and on foot. The gleet, however, was uncommonly obflinate, and the Tincture was continued for the fecond month

month in the fame quantity. By this time the parts were confiderably braced; he could run or jump without perceiving the fmallest emission; and the healthful colour of his cheek began to return.---He now perfifted in the Tincture, only three times a day, for a month longer; after which the dofe was reduced to night and morning for another month; he then took it twice a day for two months more, at the end of which period every fymptom of the complaint was removed, he had fully recovered his flesh and strength, and now preferves it by taking the Solar Tincture as a beverage, made after the manner of brandy and water. This diforder has in general been deemed incurable. It is true, that, even in its early attacks, it is fo effentially neceffary to abstain from venereal embraces, that without it, the best remedies will prove altogether ufeles; hence the Tabes Dorfalis fo often proves mortal, because the patient has feldom resolution enough to difpenfe with his amours.

RHEUMATIC GOUT.

This difeafe is generally brought on by alternate heats and colds in the blood, whereby a humour is produced which attacks the joints and muscles, fometimes accompanied with discolourations and fwellings, and at other times without either; but it is always attended with excruciating pain. Mr. John Brandham, of Bridlington Quay, was attacked in this manner; when, after fome time, the fevere pain of his joints, falling into his legs and thighs, deprived him of the U use

use of his limbs, and confined him entirely to his bed. He was foon after feized with a violent pain in his head and stomach, which so much affected his respiration, that inftant death was expected. In this extremity, half a wine-glass of the Solar Tincture was adminiftered, undiluted, which removed the danger, and gave his ftomach immediate eafe. A table-fpoonful, in the fame quantity of warm water, was then given every third hour, during the fucceeding day and night, by which the pains were confiderably abated. He continued the medicine four times a day for a month longer; at the expiration of which time he experienced a perfect cure, and has never fince found the smallest return of his complaint; of which he is defirous of fatisfying any enquirer, who chufes to apply for that purpose.

Agues, Convulsions, Cholic, Bloody-Flux, and violent Spasms in the Stomach and Bowels.

During the fit, let one or two table-fpoonfuls of the Solar Tincture, undiluted, be administered fucceffively, as the extremity of the cafe may require; and afterwards let the patient continue the medicine, night and morning, in the quantity of a table-fpoonful in a wineglass of warm water, or oftener, as the obstinacy of the case may render necessary, and in a very short time a perfect cure will be experienced; a few instances of which I shall add, in the words of those who have transmitted me the facts.

To

TO E. SIBLY, M.D.

SIR,---A few nights ago, I was attacked in bed with a violent pain in my ftomach and bowels, which alternately produced fuch a fuccession of convulsive spaims and cold chills, that I really thought I was feized for Fortunately a bottle of your Solar Tincture death. was in the house, purchased the day before by my fon, of which my fervant gave me a table-fpoonful and a half, unmixed with water. The inftant effect it had on my ftomach I could only compare to electricity; for, to the aftonishment of all about me, the spasms instantly ceafed, a gentle perfpiration came on, in which state I fell afleep, and did not awake till the morning, when I found myself entirely free from pain. On getting up, I took a spoonful more of the Tincture, in an equal quantity of warm water, and have not fince experienced the smallest return of the diforder. Requesting you will make this known, for the benefit of others, I remain, with grateful efteem, &c.

No. 25, Philpot-lane, M. ARMSTRONG. Fenchurch-ftreet, Feb. 12, 1794.

TO E. SIBLY, M.D.

SIR,---In gratitude, I cannot but thank you for that excellent medicine, the Solar Tincture. It has faved my life. I was fuddenly feized with a violent cholic, which brought on a mortification of the bowels. The efforts of the faculty were tried in vain, and I was given over. In these moments of extremity, my existence was preferved by only two spoonfuls of your U_2 medicine,

medicine, *undiluted*, which inftantly relieved me from the rack of torture. After two more dofes, the obfunction was removed by natural evacuation, and a few hours reftored me to my ufual ftate of good health. I entreat you to publish this for the public good, and shall be ever gratefully your's,

Clifton, near Briftol, JOHN POWELL. March 24, 1794.

To E. SIBLY, M.D. SIR,---Actuated by a principle of gratitude, I cannot omit acquainting you of an extraordinary cure performed on me by means of your Solar Tincture. ---I had for fome time been afflicted with the dyfentery or bloody flux, and was reduced to a very weak and languid ftate, without deriving any benefit from the prefcriptions of the faculty. This induced me to make trial of your Solar Tincture; when, after taking only two fmall bottles, I found myfelf perfectly recovered; therefore, by publifhing this to the world, you will confer a favour on your grateful, &c.

No. 8, Windmill-street, WILLIAM JACKSON. Tottenham-court Road, May 15, 1794.

DISEASES OF THE BREAST AND LUNGS, ASTHMA, DROPSY, OR CONSUMPTION.

Take one fpoonful of the Tincture, night and morning, for twenty days fucceffively, diluted in two fpoonfuls of cold fpring-water; then reduce it to the fame dofe every other day, which will in general remove

Digitized by GOOG

157

move the malady in the course of a month; but, if the dropfy or confumption have been far advanced, it will be neceffary to continue the medicine for one, two, or even three, months longer, reducing the number of doles in proportion as health and ftrength appear to return, and as the blood shall have refumed its proper confistency, and a brifker circulation. In these complaints, it will not be amifs to take the Tincture in a tumbler of warm water, as a beverage, for fome time after the cure is perfected, as it will infallibly prevent the blood from returning to its watery and impoverifhed state, and will rarefy and expel the vifcid cohefions in the pulmonary veffels. In these diforders, the Solar Tincture may be fafely administered to females even during obstructions of the catamenia, as hath lately been experienced by perfecting an admirable cure on a lady in Grafton-street, Tottenham-court Road.

This lady was afflicted with obstructions of the liver and spleen, infomuch that she could not walk up one pair of stairs without much pain, and shortness of breath. Her menses were obstructed; and twice or thrice a day she was attacked with associations, accompanied with febrile symptoms. This affliction being of a peculiar nature, I was obliged to prescribe both the Solar and Lunar Tinctures, in the following manner. Whenever the fever came on, she took a dose of the Solar Tincture; and, every morning and evening, fixty drops of the Lunar Tincture in a gill of mugwort-tea; and in twenty-one days she was perfectly

- Weiter Barris

fectly recovered, and reftored to her ufual colour and vivacity, to the great joy of her parents and friends.

MENTAL DEPRESSION, OR LOWNESS OF SPIRITS.

This may be confidered the primary diforder of the nervous train; and, if refifted in time, may in most cafes be eafily cured. For this purpose take a tablespoonful of the Solar Tincture, diluted in a wine-glass of cold fpring-water, every forenoon at eleven or twelve o'clock, for fourteen fucceffive days; then ufe it every two or three days for a month; and the complaint will be entirely removed, as all patients will fenfibly feel, by their alertness, activity, and unufual flow of natural spirits; of which the following cafe may ferve as an example :

To E. SIBLY, M. D.

SIR,---From a full conviction of the efficacy of your Solar Tincture, I cheerfully come forward to inform you, that having been much afflicted with depreffion of spirits, a nervous tremor, and palpitation of the heart, (owing, I believe, to close application to fludy, and much professional duty,) I have lately experienced a perfect cure, by taking one large bottle of your medicine. Impressed, therefore, with a sense of gratitude to God and you, and having a certain knowledge of many other cures performed by your Tincture, I do hereby request this may be made public for the benefit of the afflicted, and am with efteem, &c.

Borough, Southwark, W. WOOLLEY, M. A. May 10, 1794.

BILL

BILE ON THE STOMACH. -

All bilious complaints are removed by the Solar Tincture in a most extraordinary manner. Whenever a fit appears to be coming on, with the flomach loaded and opprefied, one large table-spoonful, taken in the fame quantity of warm water, will in ten minutes carry off the offending matter, cleanse and comfort the digestive organs, and give the patient immediate relief.

BITE OF A MAD DOO, OR ANY VENOMOUS REPTILE.

The fatal difease confequent on the bite of a mad dog, is the hydrophobia, or dread of water; which circumftance first suggested dipping in the sea for the cure, by antipathy. It is very remarkable that these patients have not only a dread of water, but of every thing bright or transparent. Soon after this affection takes place, the mind becomes impaired; which fhews that the poifon is carried through the blood to the nervous fluid, and thence to the brain. Dr. James, in his Treatife on Canine Madnefs, mentions a boy fent out to fill two bottles with water, who was fo terrified by the noife of the liquid running into them, that he fled into the houfe crying out that he was bewitched. He mentions alfo the cafe of a farmer, who, going to draw fome ale from a cafk, was terrified to fuch a degree at its running into the veffel, that he ran out in great hafte with the fpigot in his hand. But, in whatever manner this fymptom comes on, it is certain that the most painful fenfations accompany every attempt to fwallow liquids,

159

160

Nay, the bare fight of water, of a lookingquids. glass, or any thing clear or pellucid, will give the utmost uneafiness, and even throw the patient into convulfions. In this difeafe there feems to be an extreme fenfibility and irritability of the nervous fystem. The eyes cannot bear the light, or the fight of any thing white; the leaft touch or motion offends them, and they want to be kept as quiet and in as dark a place as poffible. Some complain of the coldness of the air, frequently when it is really warm. Others complain of violent heat; and have a great defire for cold air, which yet never fails to increase the fymptoms. In all there is a great flow of the faliva into the mouth; which is exceedingly troublefome to the patients, as it has the fame effect upon their fauces that other liquids have. This therefore they perpetually blow off with violence, which in a patient of Dr. Fothergill's occafioned a noife not unlike the hollow barking of a dog, and which he conjectures might have given rife to the common notion that hydrophobious patients bark like They have an infatiable thirft; but are unable dogs. to get down any drink, except with the utmost difficulty; though fometimes they can fwallow bread foaked in liquids, flices of oranges, or other fruits. There is a pain under the *scrobiculus cordis*, as in the tetanus ; and the patients mournfully point to that place as the feat of the difeafe. Dr. Vaughan is of opinion that it is this pain, rather than any difficulty in fwallowing, which diffreffes the patient on every attempt to drink. The voice is commonly plaintive and mournful; but Dr.

Dr. Vaughan tells us there is a mixture of fiercenefs and timidity in the countenance which he cannot defcribe, but by which he could know a hydrophobious perfon without asking any questions. Some feem to have at times a furious delirium, and an inclination to fpit at or bite the by-standers; while others shew no fuch inclination, but will even fuffer people to wipe the infide of their mouths with the corner of a handkerchief in order to clear away the vifcid faliva which is ready to fuffocate them. In fome male patients there is an involuntary erection of the penis, and emiffion of the femen; and the urine is forced away by the frequent return of the spass.- In a letter from Dr. Wolf, of Warfaw, to Henry Baker, F. R. S. dated Warfaw, September 26, 1767, we have the following melancholy account of the cafes of five perfons who died of the hydrophobia :--- None of them guite loft their fenfes; but they were all talking without intermission, praying, lamenting, despairing, curfing, fighing, fpitting a frothy faliva, fcreeching, fometimes belching, and retching, but rarely vomiting. Every member is convulfed by fits, but most violently from the navel up to the breaft and œfophagus. The fit comes on every quarter of an hour; the fauces are not red, nor the tongue dry. The pulse is not at all feverifh; and when the fit is over nearly like a found pulfe. The face grows pale, then brown, and during the fit almost black; the lips livid; the head is drowfy, and the ears tingling; the urine limpid. At last they grow weary; the fits are lefs violent, and ceafe towards the end : X

161

end; the pulfe becomes weak, intermittent, and not very quick; they fweat, and at last the whole body becomes cold. They compose themselves quietly as if to get fleep, and fo they expire. A general obfervation was, that the lint and dreffings of the wounds, even when dry, were always black, and that when the pus was very good in colour and appearance. In one of Dr. Wolf's patients who recovered, the blood flank intolerably as it was drawn from a vein; and one of Dr. Vaughan's patients complained of an intolerable foetid fmell proceeding from the wounded part, though nobody but himself could perceive it. In general, the violent convulsions cease a short time before death; and even the hydrophobia goes off, fo that the patients can drink freely. But this does not always happen; for Dr. Vaughan mentions the cafe of a patient, in whom, " when he had in appearance ceafed to breathe, the spasmus cynicus was observable, with an odd convulfive motion in the muscles of the face; and the ftrange contrariety which took place in the action of these produced the most horrid assemblage of features that can well be conceived. Of this patient also it was remarkable, that in the laft hours of his life he ceased to call for drink, which had been his constant request; but was perpetually asking for fomething to cat."

The hydrophobia feems to be a fymptom peculiar to the human race; for the mad animals which communicate the infection do not feem to have any dread of water. Notwithstanding this, dipping is the common

162

mon remedy for the cure of dogs and men. With regard to the fymptoms of madnefs in dogs, they are very equivocal; and those particularly enumerated by fome authors, are only fuch as might be expected in dogs much heated or agitated by being violently purfued and struck. One symptom indeed, if it could be depended upon, would determine the matter; namely. that all other dogs avoid and run away from one that is mad; and even large dogs will not attack one of the smallest fize who is infected with this difease. Upon this fupposition they point out a method of discovering whether a dog that hath been killed was really mad or not; namely, by rubbing a piece of meat along the infide of his mouth, and then offering it to a found dog. If the latter eats it, it is a fign the dog was not mad; but, if the other rejects it with a kind of howling noife, it is certain that he was. Dr. James tells us, that among dogs the difeafe is infectious by flaying in the fame place; and that after a kennel has been once infected, the dogs put into it will be for a confiderable time afterwards in danger of going mad alfo. A remedy for this, he fays is, to keep geele for fome time in the kennel. He rejects as false the opinion that dogs when going mad will not bark; though he owns that there is a very confiderable change in their bark, which becomes hoarfe and hollow.

With regard to the immediate cause among mankind, there is not the least doubt that the hydrophobia is occasioned by the faliva of the mad animal being mixed with the blood. It does not appear that this

X 2

163



can

can operate through the cuticula; but, when that is rubbed off, the fmalleft quantity is fufficient to communicate the difeafe, and a flight foratch with the teeth of a mad animal has been found as pernicious as a large wound. It is certain alfo, that the infection has been communicated by the bites of dogs, cats, wolves, foxes, weafels, fwine, and even cocks and hens, when in a flate of madnefs. But it does not appear that the diffemper is communicable from one hydrophobious perfon to another, by means of the bite, or any other way.

It has been generally allowed by practitioners, that, though the hydrophobia may be prevented, yet it can feldom be cured after it has made its appearance. The most effential part of the treatment therefore depends on an immediate use of the proper means of prevention. For this purpole fome advise the instant cutting out the part bitten, which must certainly be an effectual mode, provided we could be fure the poifon had not reached beyond the wound. When, however, we confider the rapidity with which the blood and juices flow, it feems impoffible we can ever wholly depend on fuch an operation. I should nevertheless advise it to be done; after which let the part be well foaked with the Solar Tincture; and, to fortify the blood, let the patient swallow a table-spoonful every three hours, undiluted, for the first day; and the same dose night and morning, for a month following. Let the part be again foaked with the Tincture four times a day, for three or four days; and I am fatisfied a fafe and perfect cure may be relied on. For the bite of adders, fnakes, &c. bathing

bathing the part, and taking the medicine *undiluted*, will counteract the virulence of the poifon, and preferve the patient from further injury.

For Gun-Shot Wounds, Cuts, Stabs, &c.

Gentlemen in the army and navy, and all perfons liable to gun-fhots, ftabs, wounds, &c. fhould never be without the Solar Tincture. Its falutary effects on the blood, in all thefe cafes, are really furprifing. It totally prevents, and will even stop, mortification, in very advanced stages. It quickly supplies the greatest lofs of blood; fortifies the heart, cherifhes the vital organs, and heals and unites the flesh in an uncommon If taken internally, and poured at the fame degree. time into the wound, it is quickly propelled through the heart, by the veins and arteries, and thus renovates the exhausted spirits, and preferves life. Its effect on a few fimple wounds may be feen in the following cafes:

To E. SIBLY, M.D.

SIR,---For the fake of thofe who are liable to accidents, I think it right to inform you of a moft remarkable cure performed by your Solar Tincture, on a very deep and dangerous wound made on Mrs. Cook by a cafe-knife, of more than the depth of my fore-finger. After trying every means in vain to ftop the blood, I fent for a bottle of your Solar Tincture, and well bathed the wound therewith. The blood and Tincture readily affimilated, and formed a cruft on the orifice of the wound, which very foon ftopped the effution of blood. But

But what is most remarkable, the wound was completely healed in lefs than fix days, and is now fo perfectly clofed, as to be almost imperceptible. You are welcome to publish this, and in fo doing you will oblige, &c. WILLIAM COOK.

Seymour-street, Portland-square, April 14, 1794.

To E. SIBLY, M.D.

SIR,---In justice to my own feelings, I cannot but acquaint you with a cure performed by your Solar Tincture, in a very uncommon manner. As I was travelling in the flage to Boxley-abbey, near Maidftone, in Kent, a gentleman, who fat next me, putting his head out of the window, received a violent cut acrofs the eye with the coachman's whip, which produced an immediate fwelling and inflammation, attended with fo much agony, that he declared the pain was infupporta-I had purchased a bottle of your Solar Tincture ble. while in town, knowing it had performed many furprifing cures in my neighbourhood. This I immediately opened, and applied to the inflamed part; and, after washing the eye well with it, I bound a white handkerchief tight over it, wetted with the Tincture. In lefs than ten minutes the anguish was greatly affuaged; and in the course of three hours it was quite well. The gentleman expressed the utmost astonishment at the celerity of the cure, as did every paffenger in the coach. I wish this to be made as public as possible, for the benefit of those who are liable to accidents; and am with respect, &c. M. STABLES. I fhall

I shall only remark further, with respect to wounds. bruifes, &c. that a short time ago, as a coach was driving furioufly out of Cavendish-square, the horses unfortunately beat down a girl of eight years of age, the daughter of Robert and Elizabeth Larken, of Clipfton-ftreet; and, the wheels paffing over her body, fhe was taken up to all appearance dead. The fpectators were for carrying her immediately to the hospital; but, the accident happening very near my houfe, I was fent I avoided letting blood, but bathed the bruifed for. parts thoroughly with the Solar Tincture, and introduced half a spoonful, undiluted, into her stomach. It was now about nine o'clock at night. She was compofed and afleep before ten, being overcome by the medicine. A fpoonful more of the Tincture was given her at different periods of the night, the fudorific power of which brought on a plentiful perfpiration. At ten o'clock the next morning the awoke, and got up, and was fo well recovered as to be able to play about with her companions, in all respects the same as if nothing had happened. The girl, and her parents, are pleased with every opportunity of recounting the circumstances of this event to any enquirers.

Let it not be faid, that, becaufe this medicine appears to be prefcribed for many diforders, it can be good for none.---I affirm, that every complaint for which it is recommended, originates in the blood, or in obstructed perspiration. The action of the Solar Tincture is on the blood and juices; it strikes at the root and not at the branches; by which peculiar advantage it effects a cure 168

cure when other medicines fail. For this reafon the proprietor, unwilling to withhold from the afflicted in every line of life the benefits of his discovery, has determined to render it to the public at only 7s. 6d. the fmall, and 13s. the large, bottles, duty included, with ample directions in every complaint for which it ought to be administered .--- A fingle bottle will in many cafes perform a fpeedy cure, when, in the ordinary course of medical practice, it would occupy a month, and coft many pounds for unneceffary attendance, and an excess of drugs.

It is fold at my houfe, No. 1, Upper Titchfieldftreet, Cavendish-square; by Mr. Williams, perfumer to his majesty, No. 41, Pall Mall; at Melvin's perfumery warehouse, No. 70, New Bond-street; at J. Wye's medicinal warehouse, No. 59, Colemanftreet; at the British Directory-office, Ave-Marialane, St. Paul's; and by all retailers of patent medicines in the country.

Wholefale orders must be addressed to Mr. Wye, No. 59, Coleman-street, being the only place in London where country orders for the medicine are executed, the perpetual calls of my extensive practice rendering it impossible for me to attend to them.

In order to make a trial of these medicines as little expensive as possible, and convenient to perfons refiding in every part of the kingdom, and to convince the world I do not defire any dealer to rifk his money upon an article he might perchance never fell, I have given orders that any stationer, grocer, or dealer in medicines,

medicines, in the country, on writing to his London correspondent, shall be supplied with a fingle bottle, up to any quantity, at the wholefale price.

OF THE PRINCIPLES OF LIFE AND DEATH.

Above all, the efficacy of the Solar Tincture is most ftrikingly manifested, by its ftimulating and re-animating powers, in cafes of accidental or fudden death. Life denotes the animated state of nature; and in human beings, exifts as long as an union of the foul and With us, therefore, life continues, until body lasts. fuch feparation has really taken place; which can no more be faid to have happened during the paroxism of a fit, or of a blow which for a time deprives us of fensation, or in the early period of an unnatural or fudden death, than during the time we are afleep. It is the want of proper skill at such times that too often occafions death to take place, when life abfolutely exifts in the blood, and might with little care have been preferved. Death is therefore the act of feparation of the foul from the body; in which fense it stands oppofed to life, which confifts in the union thereof. An animal body, by the actions infeparable from life, urdergoes a continual change, and receives its diffolution Its smallest fibres become rigid; its miby degrees'. "nuter veffels grow into folid fibres no longer pervious to the fluids; its greater veffels grow hard and narrow; and every thing becomes contracted, closed, and bound up: whence the drynefs, immobility, and extenuation, obferved in old age. By fuch means the

offices

160

Digitized by GOOGLE

offices of the minuter veffels are deftroyed; the humours stagnate, harden, and at length coalesce with the folids. Thus are the subtilest fluids in the body intercepted and lost, the concoction weakened, and the reparation prevented; only the blood continues to run flowly through the greater vessels, associate to preferve life, even after the animal functions are destroyed. At length, in the process of these changes, death becomes inevitable, as the necessary consequence of life. But it is rare indeed that life is thus long protracted, or that death succeeds merely from the natural decays and impairment of old age. Accidental diseases, and our neglect of preferving health, cut the work short.

The figns of death are often very uncertain. If we confult what Winflow or Bruchier have faid on this fubject, we shall be convinced, that between life and death the shade is fo very undistinguishable, that even all the powers of art can scarcely determine where the one ends and the other begins. The colour of the vifage, the warmth of the body, and suppleness of the joints, are but uncertain figns of life still fublisting, while, on the contrary, the paleness of the complexion, the coldness of the body, the ftiffness of the extremities, the ceffation of all motion, and the total infenfibility of the parts, are but uncertain marks of death be-In the fame manner alfo, with regard to the pulfe gun. and breathing; these motions are so often kept under, that it is impossible to perceive them. By bringing a looking-glass near to the mouth of the perfon supposed to be dead, people often expect to find whether he breathes

171

breathes or not. But this is a very uncertain experiment: the glafs is frequently fullied by the vapour of the dead man's body; and often the perfon is still alive, though the glafs is no way tarnished. In the fame manner, neither noifes in the ears, nor pungent fpirits applied to the noftrils, give certain figns of the difcontinuance of life; and there are many inftances of perfons who have endured them all, and afterwards recovered without any external affiftance, to the aftonishment of the spectators. This furely ought to be a caution against hasty burials, especially in cases of sudden death; for it is shocking to reflect, that fome hundreds of valuable members of fociety are annually torn from their difconfolate families by fome accidental fudden caufe, and hurried thought lefsly to the grave, in whom the principles of life were capable of being revived ! This lamentable truth has been established by the happy fuccefs of the Humane Society, from whole laudable exertions feveral hundred perfons have been reftored to life, who, to all visible appearance, were past recovery. Every age and country affords fome inftances of perfons having been recovered, even after lying long for dead; and from the number of those preferved by mere lucky accidents, it is evident that ftill greater numbers might be faved by timely pains and skill. Those who have contemplated the ftructure of the human machine know, that its diffolution cannot naturally happen but by that gradual decay of the whole fyftem above defcribed, when the veffels are become impervious to the fluids, the circulation weakened or deffroyed,

Y 2

Digitized by Google

and

and the vital organs no longer able to perform their office. But, when their functions are merely fufpended by fome fudden fhock, it may be likened to the ftate of a watch ftopped by a fall, which refumes its motion the inftant that injury is repaired. In the animal œconomy, " the BLOOD is the LIFE;"* therefore, if

* The flocking cafe of Mr. Groundwater, who was most inhumanly murdered on the 23d of May last, by the convicts in Cumberland Fort, near Portfmouth, manifelts the truth of this remark. The above unfortunate perfon was deputed to overlook the convicts in their working hours; when having occasion to reprimand two of them for misbehaviour, namely, Francis Jennison, and William Butterworth, who were under fentence of transportation for life, they fell upon the unhappy man with the iron shovels with which they were at work; and, having thrown him down, they ftruck the sharp edge of the shovels feveral times into his head, whereby the cranium was penetrated, and fo large a fiffure made, that part of the brains hung upon the fpade, and the refidue fell out upon the ground, in the quantity of a double handful. They then ftruck down one of the flovels on his neck, with an evident defign to fever the head from the body; but, firiking against the bone, it had not the intended effect. Now it is a most extraordinary circumstance, attested by feveral witnesses on the trial of these inhuman wretches, who were convicted of the murder at the enfuing Winchester affizes, and executed on the 4th of August, 1794, that Mr. Groundwater lived eighteen hours after he had received the above grievous wounds, and after the whole of the brain had fallen out of the cavity of the fcull. He was entirely fpeechlefs ; but the action of the pulfe was remarkably ftrong, and refpiration visibly continued, during the whole of the eighteen hours above-mentioned. This was politively attefted on the oath of Mr. Hill, the furgeon who attended him, and taken down as a most fingular cafe, by Sir Nash Grofe, who tried the prifoners. This fact therefore clearly decides the long-contefted point among physiologists, whether the feat of life is in the heart, or in the brain? for it evidently shews that the life is in the blood, feated in its grand refervoir the heart, which if ever fo flightly wounded or impaired, the circulation ceales, and death inftantly follows.

its
its circulation be fuspended or deftroyed, death fol-But if the blood can be re-agitated, and its lows. circulation refumed, life will of neceffity be reftored. For this reafon, whenever any accident has happened, by which fudden death appears to have taken place, whether by blows, fits, falls, fuffocation, ftrangulation, drowning, apoplexy, convultion-fits, thunder and lightning, affaffination, duelling, or the like, let the unfortunate perfon be carried into a warm houfe, and laid by the fire, or put into a warm bed; let two or three table-spoonfuls of the Solar Tincture be introduced as early as poffible into the ftomach, and rubbed profusely in by a warm hand, upon the spine of the back, loins, breaft, and region of the heart, and poured into the wound, if there be any; the warm ftimulating quality of the medicine, affifted by the external heat and friction, will quickly roufe the ftagnant blood and juices, particularly in the grand refervoir the heart, where, rarefying, prefling every way, and being refifted by the valves, it will fwell fo as to fill the flaccid right auricle of the heart, which by the flock had become empty and at reft; and thus ftimulating its fibres, will put them in motion. The right auricle being thus filled and ftimulated into contraction, fills the ventricle; which, by this means being irritated, likewife contracts and empties itfelf into the pulmonary artery; and the moment this is done the circulation begins again where it left off; and the lungs, being filled by the dephlogifticated air contained in the medicine, begin to act, and life is reftored, provided the organs

173

174 MEDICAL MIRROR.

organs and juices are in a fit disposition for it; which they undoubtedly are much oftener than is imagined. Nor is this flimulating action of the Tincture upon the heart at all furprising; for every medical man knows, or ought to know, that the heart, even when taken out of the body, if it be pricked with a pin, or hath warm water thrown upon it, will beat afresh, and endeavour to exert its functions, though for some time before it had been motionles. No perfon therefore ought to be confidered *dead*, until the energy of the blood is so far gone, that it can never again be agitated fo as to fill and flimulate into contraction the right *finus* venosus and auricle of the heart.

When the patient is thus far recovered, he ought to be treated with great care and tendernefs; and fome warm milk, wine and water, elder-flower tea, or any nourishing spoon-meat, should be given to him as soon as he appears capable of taking food. In fome cafes it may be neceffary to open the temporal artery and the external jugular, or to bleed in the arm; but this should never be done if it can fafely be difpenfed with, as it certainly weakens the animal principle, which it is the first object of this medicine to strengthen, Under different circumstances, and as particular occasions may require, the rules laid down in p. 196 of my Family Phyfician, and recommended by the Humane Society, will be found of confiderable advantage. Above all, let me entreat an anxious perfeverance in this fublimest of all virtues---the attempt to recover perifhing lives. Humanity calls for it in the most moving accents; and what

3000le

Digitized by

MEDICAL MIRROR.] 175

what can infpire a good heart with more fincere, perfect, confcientious, and commendable, fatisfaction, than a retrofpect of fuch endeavours as have been generoufly exerted and fuccefsfully contributed to recover, perhaps to reftore, the life of a fellow-creature from that most deprecated calamity---fudden death, with its alarming retinue of threatening confequences to those who die unprepared ? fince, by thus preferving a finner to a future period, perhaps a foul may emerge in full maturity to felicity which fhall have no end!

To demonstrate the re-animating power of the medicine, experiments may be made upon a fowl, lamb, cat, dog, or other animal, by plunging them under water until they are apparently dead, or piercing them through the head, or any part of the body except the heart; by fuffocation, or an electrical shock: for fudden death, howfoever it happens, whether by drowning or otherwise, is much the same as to its effects on the vital organs; confequently they are all to be treated in a fimilar manner.

Upon the whole it is evident, that by contemplating the æconomy and harmony of our ftructure, both external and internal, we may quickly difcern a proper line of conduct for the confervation of health, and the prolongation of life; and we fhall alfo perceive a more august view of the marvellous works of divine wifdom in the ftructure of the human breast, than we shall perhaps again find in the whole compass of nature. The gift of health was evidently the design of our benevolent Creator in the construction of our bodies;

it

Digitized by

100gle

it is therefore no lefs our duty than our interest to pre. ferve this bleffing to our lateft moments, as the feafoning and fund which gives the relifh to all our other To enumerate the various abuses of enjoyments. health, which take place from our earlieft infancy, particularly among the rich and gay, and which are continued through the fucceeding ftages of modifh life, Suffice it to observe, that they would fill a volume. prevail more particularly among people who are the moft highly polifhed and refined. To compare their artificial mode of living with that of nature, would afford a very ftriking contraft, and fupply an obvious reafon why perfons in the lower orders of fociety are generally the longest livers, and enjoy the best state of health; and hence we are warranted to conclude, that a large proportion of the difeafes to which we are fubjected are produced by ourfelves.

Notwithstanding this unaccountable abufe of our health, yet the want of it unfits us for most of the common avocations of life, and is more especially an enemy to the focial and humane affections, as it generally renders the unhappy fufferer peevish and fullen, difgusted at the allotments of Providence, and apt to induce fuicide, by fuggesting gloomy and fuspicious fentiments of the Almighty. It obstructs the free exercife and full improvement of our reason, makes us a burden to our friends, and useless to fociety. Whereas the uninterrupted enjoyment of health is a constant fource of good humour, and good humour is a great friend to openness and benignity of heart; enables us

to

Digitized by Google

MEDICAL MIRROR. 177

to encounter the various ills and difappointments of this world with more courage, or to fustain them with more patience; and, in fhort, conduces much, if we are otherwife duly qualified, to our acting our part in every exigency of life with more firmnefs, confiftency, and dignity. Therefore it imports us much to preferve and improve the habit of its enjoyment, without which every other external entertainment is taftelefs, and most other advantages are of little avail. To this end, we ought above all things to cultivate prudence, temperance, fobriety, fortitude, and equanimity of temper; for without a prudent care of the body, and a steady government of the mind, to guard the one from difease, and the other from the feuds of passion and prejudice, found health is unattainable. By temperance we enjoy the real gratifications of life, without fuffering any confequent inconvenience. Sobriety enables us to be content with fimple and frugal fare, and protects us from the pain and difgrace of intoxica-Fortitude enables us to bear those infirmities tion. which prudence and fobriety cannot fhun, and banifhes all dread of imaginary evils from our thoughts. Equanimity of temper contributes greatly to the happiness of life, as well as to the prefervation of health, by preferving the mind from anxiety and perturbation, and arming us against the calumnies and animofities of human nature. Violent paffions, and the exceffes they induce, gradually impair and wear away the conftitution; whilft the calm and placid flate of a temperate mind, and the healthful exercises of the body, preferve

the

the natural functions in full vigour and harmony, and exhilarate the fpirits, which are the chief inftruments of action. The worft confequences that could poffibly refult from a ftrict adherence to this regimen, would be that of exterminating a fwarm of locufts, and of rendering the difcovery of my medicine of much lefs importance to the community.

INDÈX.



INDEX.

CANTHARIDES, their violent and destructive effects on the human body, 141.

Conception, progrefs of, and growth of the fœtus, illustrated with curious plates, 56; remarkable conceptions, owing to the conflict of the male and female procreative tinctures, 95.

Difeafes, divided into hereditary and accidental, 13; at what time hereditary difeafes are communicated to the focus, 49; difeafes feminine, or lunar, 75; masculine, or solar, 106.

Fœtus, how nourished in the womb, 59; its growth, and the disorders which are termed hereditary, 59-65.

Hunter, Mr. curious experiments made by him, 107.

Impregnation, the process of, 14.

Lunar Tincture, its action on female conftitutions, 67-94; with cafes annexed in proof of its efficacy, in irregularity of the menfes, 78; green ficknefs, 80; fluor albus, 86; barrennefs, 91; recommended to all married women, 101; and to women at the turn of life, 102; cafe of a tainted habit in a state of pregnancy relieved by this medicine, 148.

Man, formed originally perfect, and capable of propagating from his own effence, 6; feparation of the male and female effences in the formation of Eve, 10; man's fall, 11; thence became fubject to difeafe and death, 13.

Mole, or falfe conception, 63.

5

Perfpiration, infenfible, a medium whereby bad humours are carried off, 120.

Pregnancy, difeafes attendant on, 94.

Puberty, the changes it produces in the human fystem, 37.

Quickening, action of defcribed, 116.

Salivation, accidental, a curious cafe, 150.

Scrophula, its progrefs in undermining the human frame, 130.

Solar and Lunar Tinclures, two medicines invented by the author, 66, 67.

Za

Solat

Solar Tincture, its action on the blood, 129; directions for its ufe in the fcurvy and king's evil, 133; with a remarkable cafe, 135; cafes of premature debility, 137; relaxed habit, 139; weak nerves, 140; nocturnal emiffions, or incontinence of the femen, 143; onanifm, 144; tainted habit, 146; tabes dorfalis, or confumption of the back, 152; rheumatic gout, 153; fpafms, cholic, and bloody flux, 154; difeafés of the breaft and lungs, afthma, dropfy, or confumption, 156; mental depreffion, 158; bile on the ftomach, 159; bite of a mad dog, &c. ibid. gun-fhot wounds, cuts, ftabs, &c. 165; cafes of (apparently) fudden death, 169.

Sympathy and antipathy, operate very powerfully on females in a ftate of pregnancy, 99.

Turn of life in women, the danger attending this period, and cautions to be observed, roz, &c.

DIRECTIONS FOR PLACING THE CUTS.

nage ch

Portrait of the Author to face the Title. Progreffive Formation of the Fœtus, Plate I.

			F-0- J-		
Ditto		Plate II.		-	58
The Action of Quickening	-	-	-	-	118
The Infenfible Perfpiration	-	-	-	•	126
					10 A A A A A A A A A A A A A A A A A A A

FINIS.

180

NEW PUBLICATIONS BY DR. SIBLY.

This Day is published, Number I. (to be continued monthly,) Price One Shilling plain or Two Shillings coloured, The

ZOOLOGICAL MAGAZINE,

And elegant MUSEUM of the CURIOSITIES and RARITIES in NATURE. Forming an universal and complete

SYSTEM OF NATURAL HISTORY.

Comprehending the whole SCIENCE of ANIMALS, PLANTS, and MINERALS; divided into diftinct Parts; the Characters feparately defcribed; and the moft curious, uncommon, and furprifing, Animals, pictured from real Life, in copper-plate Engravings, highly finished, and most beautifully coloured.

The miscellaneous Part confists of entertaining Descriptions, and copper-plate Views, of the most furprising Volcanoes, Caverns, Cataracts, Waterfalls, Whirlpools, and other supendous Phenomena of the Earth, refulting from Earthquakes, the general Deluge, &c. forming a New and Complete HISTORY of the CURIOSITIES and WONDERS of the WORLD.

Intersperfed with genuine historical Descriptions of remarkable Ruins, magnificent Edifices, singular Customs, and peculiar Manners, of remote Countries; selected from the VOYAGES and TRAVELS of eminent and diffinguished Persons in all Ages.

ARRANGEMENT OF THE WORK.

I. NATURAL HISTORY of MAN; including the different Species and Functions of the Human Race, both Male and Female; confidered from the Moment of Gestation to that of Death.

II. Of ANIMALS refembling MAN; including ORANG-OU-TANG, or *Wild Men and Women of the* WOODS; the Ape, Baboon, and whole Tribe of SIMIA. With a Differtation on their Conformation; their Intercourfe with Negro Women; Mode of carrying off Negro Girls; and a Narrative of one who continued with them in the Woods near three Years. With very curious Portraits of fome who have been domefficated; and of others taken wild.

III. Of QUADRUPEDS, or four-footed Animals.-With elegant Plates.

IV. Of BIRDS .- With most beautiful Plates.

V. Of AMPHIBIOUS ANIMALS, viz. Crocodiles, Lizards, Tortoifes, Turtles, Snakes, Serpents, &c.-With fuperb and beautiful Plates.

VI. Of FISHES, SHELLS, &c .- With most elegant Plates.

VII. Of INSECTS .- With rich and beautiful Plates.

VIII. Of the POLYPUS, Zoophytes, Animalculæ, &c.-With curious Plates.

IX. Differtation

IX. Differtation on the Nature and Properties of MULES; and on the Powers and Qualities of all Animals produced by unnatural Contact, from Experiments made by flutting up different Animals together.—With most uncommon Plates.

X: Of the GENERATION of all Things, whether Animals, Minerals, or Plants; the Properties of the Seminal Liquor, Confiruction of the Limbus and Matrix; and the Occult Operations of Nature in the Reproduction and Continuance of the Works of Creation.—With most curious and valuable Plates.

XI. Of TREES, PLANTS, HERBS, FRUITS, FLOWERS, &c.-With rich, Superb, and most elegant, Plates.

XII. OF ORES, CONCRETIONS, SPARS, EARTHS, FOS-SILS, MINERALS, &c.—With curious and uncommon Plates.

XIII. Natural Hiftory of the EARTH; or, concife Explanations of all its curious Phenomena, celeftial and terreftrial; with the Opinions and Conjectures of Philosophers, relative to the World's Diffolution.

Dr. SIBLY begs Leave to affure the Public, that this Magazine is founded on a new and genuine Plan, fuperior to every thing of the Kind hitherto publifhed, yet cheaper than any fubordinate Work in Natural Hiftory.—He must also premife, that, from a perfonal examination of all the public Museums in Europe, feconded by Obfervations made during his Travels abroad, he is prepared to bring forward this Work, supported by fuch Documents as cannot fail to prove acceptable to the curious and inquisitive Reader.

The whole fhall be uniformly printed on a fuperfine Paper, with a Type of fuperior Excellence, caft on Purpole, by the ingenious Meffrs. FRY and STEELE, Letter-founders to the Prince of Wales.

The Copper-plates shall be executed in the first Style of CHALK and STROKE ENGRAVING, in an uniform Size and Manner, by the ingenious Mr. PASS, who pledges himself to excel every Publication in Natural History, at prefent extant in the English Language.

Each Number shall contain two Copper-plates, taken off upon fine glazed French Proof-paper, purposely prepared for colouring, in order to accommodate those Ladies and others who may chuse to colour their own Plates; fince fo great a Variety of beautiful Quadrupeds, Birds, Infects, Fish, Shells, Plants, Flowers, Corals, Foffils, &c. cannot fail to improve them in the Art of Painting Natural History.

This being the first COMPLETE Work in NATURAL HIS-TORY hitherto undertaken in the English Language, the Author proposes to print the Subscribers' Names in the last Volume, as a Record of their Liberality and Encouragement to a Work of such national Reputation and Utility.

Orders will be received by every Bookfeller and Stationer in England, Scotland, and Ireland, and the Numbers DELIVERED on the first Day of every Month, or every Fortnight if defired.—The first eight numbers ferve as a Specimen of the different Classes of the Plates.

3

()

This

NEW PUBLICATIONS.

This Day is published, in Four elegant Volumes, Quarto, Price in Boards 31. 105. plain, or Five Guineas, with the Plates beautifully coloured.

THE WORKS OF DR. SIBLY, COMPLETE.

In which the abstrufe Doctrine of the STARS, of MAGIC, DI-VINATION, EXORCISM, and Familiarity with Spririts, vegetable, aftral, and infernal-the Calculation of Nativities-Horary Queftions-and the aftrological Prefcience of FUTURITY-are clearly demonstrated and proved; and wherein all the interesting and important matter, diffused through the fcarce and valuable Writings of above Five Hundred ancient Hiftorians and Philofophers, whole Works are either wholly out of Print, or only to be found in fome few of the Public Libraries of Europe, and of immenfe value, are felected and combined .- Calculated to fhew the principles of etherial, aftral, and atmospherical, influx, in conftituting the proper recipient of Life ; the active and paffive Tinctures requifite in the generation of Men and Brutes; and the foundation and neceffity of that invisible agitation of matter, which stimulates and impels every living creature to the act of begetting its like; the properties of vegetable, mineral, and ANIMAL MAGNETISM; the fundamental caufes and qualities, vegetable or occult, of all DISEASES; with a. LUNAR TABLE, calculated from Sidereal Motion; exhibiting, upon the most simple yet unerring Construction, the actual moment of the CRISIS of every Difeafe, and the confequent termination thereof, whether for Life of Death; exemplified in a variety of Horofcopes, erected to explain the admirable use of this Table; with the Decumbitures of different fick Persons; whereby it is obvioufly feen which would live and which would die. With a Calculation of the Nativities of the late King and Queen of France, shewing the difference in the influence of the Heavenly Bodies between a *natural* and a *violent* Death; also the Caufes of the French Revolution, which was foretold by Dr. Sibly, and pub-. lished fix years before that event took place.

The Third and Fourth Volumes comprehend a New and Improved Edition of

Dr. SIBLY's FAMILY PHYSICIAN,

And Enlargement of CULPEPER's BRITISH HERBAL;

With upwards of One Hundred additional HERBS, and a difplay of their Medicinal and Occult Properties, phylically applied to the Cure of all Diforders incident to Mankind. To which are annexed, Rules for compounding Medicine according to the true Syftem of Nature; forming a complete FAMILY DISPENSATORY, and Natural Syftem of Phylic. Beautified and enriched with Engravings of upwards of Four Hundred and Fifty different Plants, beautifully coloured to Nature; with a Set of anatomical Figures, defcribing the Structure and Functions of the Human Frame, both *male* and *female*, the diforders peculiarly incident to each lex, with the means of removing fierility in man or woman. Illuftrated with Notes and Elucidations, and with two elegant Engravings, of the Male and Female Species, ferving to fhew the PLANETARY IN-FLUX

Digitized by Google

FLUX upon the Difpolitions and Affections of the Mind, and the Sympathies and SECRETS in Nature.

NO INDIVIDUAL WHO REGARDS HEALTH AND VIGOUR SHOULD BE WITHOUT THIS BOOK.

London: Printed for the Author; and fold by Champante and Whitrow, Jewry-fireet, Aldgate; at the British Directory-office, Ave-Maria-lane, St. Paul's; and may be had of all Booksellers and News-Distributors in Town and Country.

Either of the above Volumes may be had feparate; or the whole, or any part, may be taken in weekly Numbers, at only Sixpence each.

A New and Valuable DISPLAY of HUNTING, SHOOTING, and SPORTING.

This Day is published, in One Volume Quarto, ornamented with Forty-two elegant Copper-plates, Price 21. 3s. coloured, or 1l. 2s. plain; or it may be had in Forty-two Numbers weekly, Price only 6d. plain, or 1s. coloured;

THE BRITISH SPORTSMAN;

Or, NOBLEMAN, GENTLEMAN, and FARMER's, DICTION-ARY of RECREATION and AMUSEMENT.

Containing Inftructions for SHOOTING FLYING—for finding Game of every Species—for breaking Pointers, Spaniels, &c.—for choofing found and proper Fowling-pieces—for adjusting the tharge —for loading, and taking aim; with every other Information neceffary to complete a GOOD SHOT.

HUNTING of every kind, with the choice and management of Hounds, according to the experiments of the ingenious Mr. Beckford, and others.

FISHING, with Infructions for making all the various Tackle, and for taking fifh by artificial paftes, fnares, &c. &c.

Of HUNTERS and RACERS, and the Art of HORSEMAN-SHIP; including an improved System of Modern FARRIERY, and anatomical Diffections of a Horse; with Rules for choosing good Horses, and the Secrets of training them with Wind and Vigour for the COURSE, FIELD, and ROAD.—Also a new and interesting Description, with Copper-plate Views, of all the Traps, Nets, Engines, Baits, and Contrivances, for taking Birds and all Sorts of Game alive.

By WM. AUGUSTUS OSBALDISTON, Efq.

Who paid upwards of FIVE HUNDRED POUNDS for the RE-CEIPTS and SECRETS contained in this Work, though now

- rendered to the Public for only One Guinea. London : Printed for the Proprietor, and fold by Champante and
- Whitrow, Jewry-ftreet, Aldgate; at the British Directory-office, Ave-Maria-lane, St. Paul's; and by every Bookseller, Stationer, and Newscarrier, in the Three Kingdoms.

Bayertsche Staatsbibliothek München

Joogle

Digitized by