Domestic medicine: or, a treatise on the prevention and cure of diseases, : by regimen and simple medicines: with an appendix, containing a dispensatory for the use of private practitioners. / By William Buchan, M.D.

Contributors

Buchan, William, 1729-1805.

Publication/Creation

Edinburgh : Printed by Thomas Turnbull, for David and Alexander Brownlees, booksellers, no. 20 New Vennel, Glasgow, 1807.

Persistent URL

https://wellcomecollection.org/works/cet85bgb

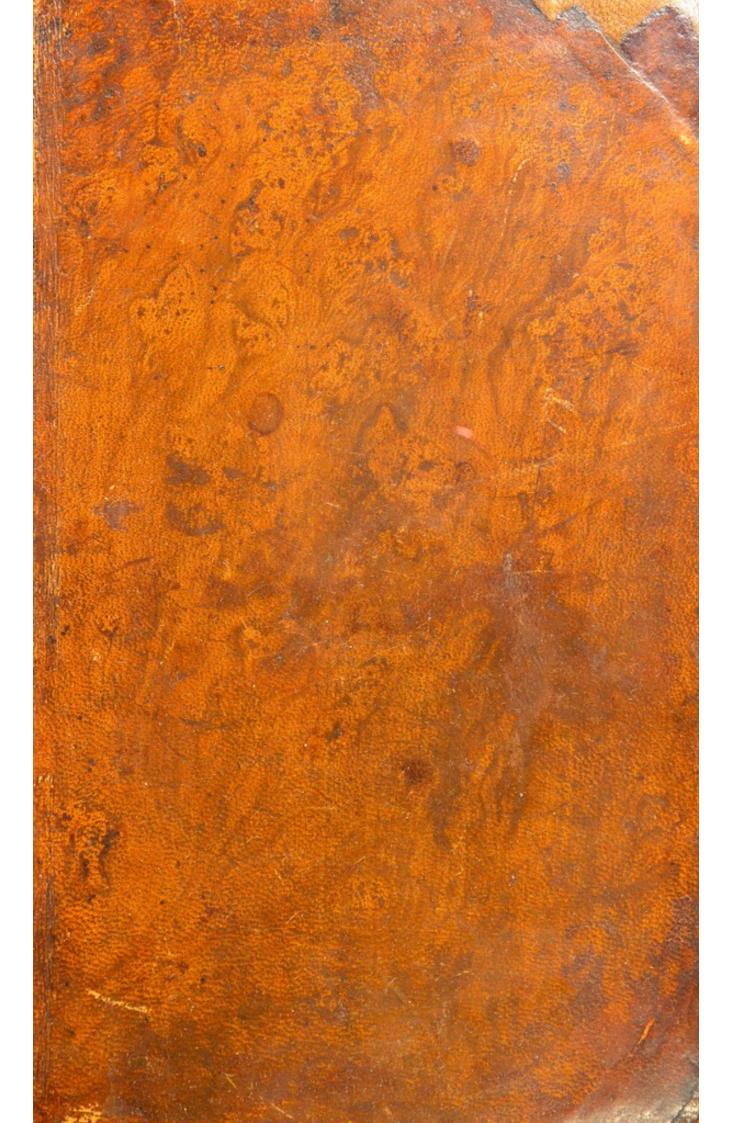
License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



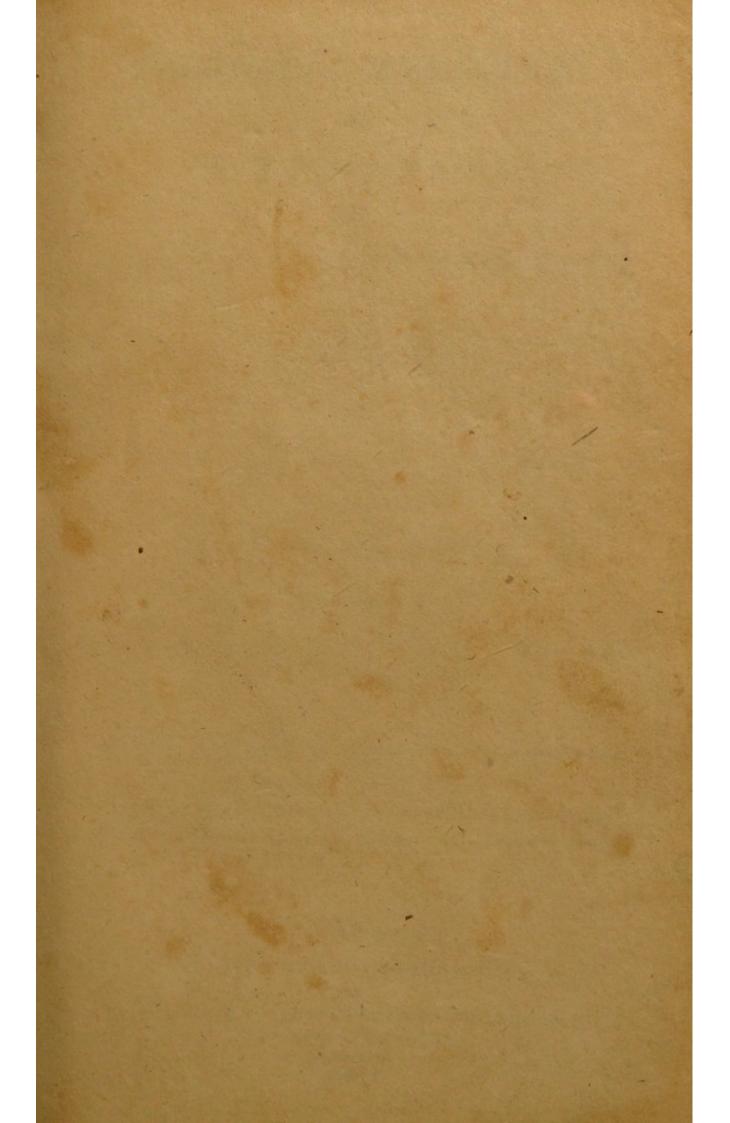
Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org



Suppl. B 60820/B

15 pp 125-136 borned in between pp 144-145. Corress of 217, 209 torn ansay without loss of pert This excition not in Bc. Only 1 copy in COPAC Not . Lib. Scot.







DOMESTIC MEDICINE;

OR,

ATREATISE

ON

THE PREVENTION AND CURE

OF

DISEASES,

BY

REGIMEN AND SIMPLE MEDICINES:

WITH ,

AN APPENDIX,

CONTAINING

A DISPENSATORY FOR THE USE OF PRIVATE PRACTITIONERS.

BY WILLIAM BUCHAN, M. D.

FELLOW OF THE ROYAL COLLEGE OF PHYSICIANS, EDINBURGH.

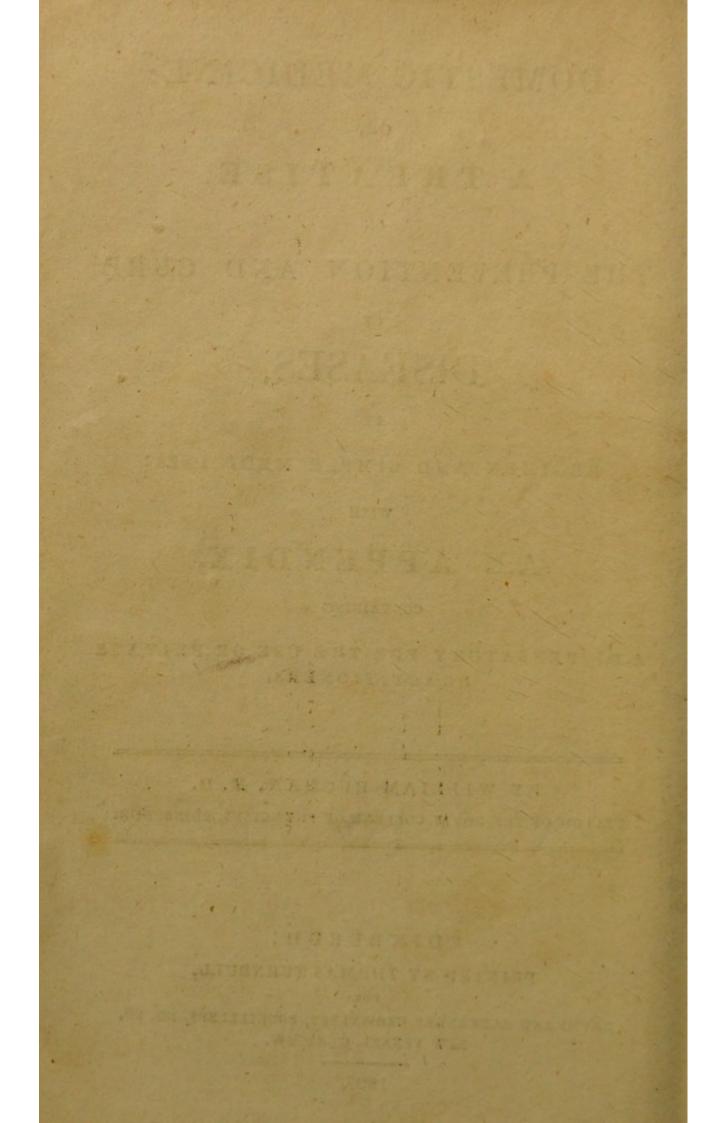
EDINBURGH:

PRINTED BY THOMAS TURNBULL,

FOR

DAVID AND ALEXANDER BROWNLEES, BOOKSELLERS, NO. 20, NEW VENNEL, GLASGOW.

1807



SIR JOSEPH BANKS, BART. PRESIDENT

THE ROYAL SOCIETY.

OF

SIR,

THE DOMESTIC MEDICINE having been honoured, on its first appearance, with the patronage of your learned and worthy Predecessor, the late SIR JOHN PRINGLE, I beg leave, in a more improved state, to Dedicate it to You, as a small, but sincere testimony of that veneration and esteem, with which I have long beheld the Man who, born to ease and affluence, had resolution to encounter the dangers of unknown seas and distant climes, in pursuit of useful science ; and whose constant object has been to render that science subservient to the happiness and civilization of Society.

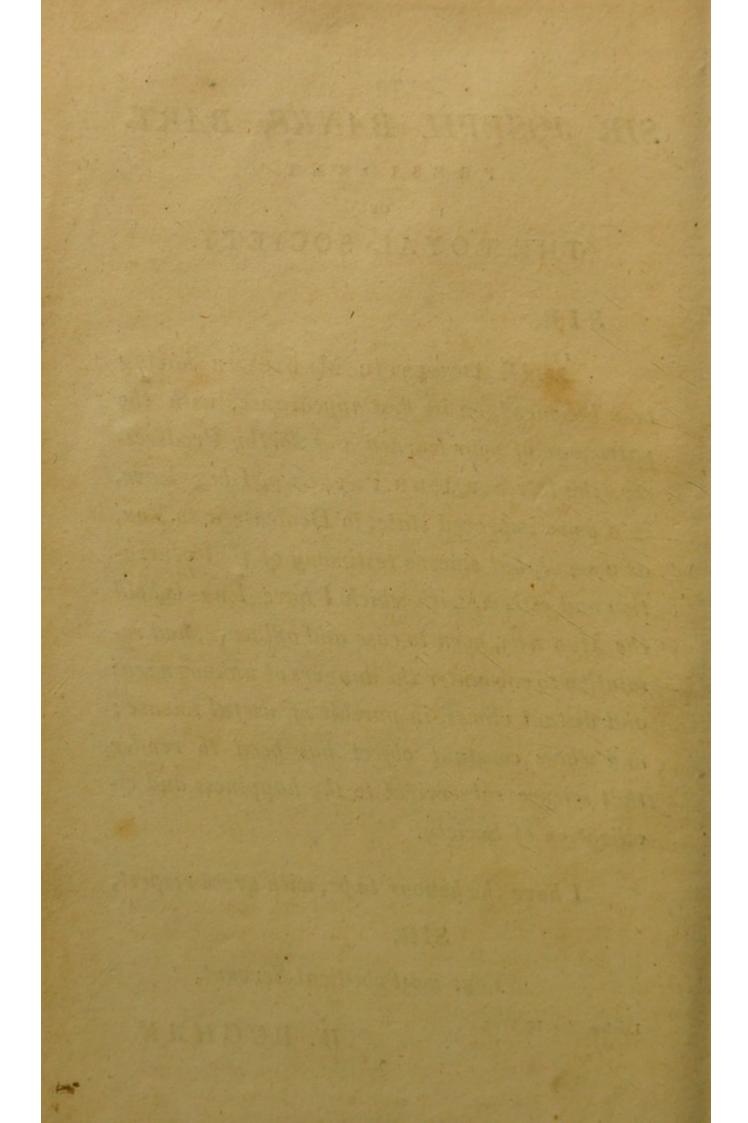
I have the honour to be, with great respect,

SIR,

Your most obedient Servant,

London, Nov. 10. 1783.

W. BUCHAN.



ADVERTISEMENT.

Twenty years have now elapsed, since the first Edition of this Book made its appearance. During this period, the Author, having been in constant practice, has taken occasion to improve several articles, which were with less accuracy inserted in the more early impressions. For this he has been censured by some, but the more candid and discerning must approve his conduct. It would be unpardonable in an author to suffer an error in a book, on which health and life may depend, to stand uncorrected ; nor would it be much less so to perceive an omission, and leave it unsupplied. His improvements, however, are not the result of mercenary views. The same principle which prompted the Author to write the Book, will ever induce him to improve it to the utmost of his power.

The Author has indeed to regret, that the limits of one volume preclude many interesting observations, and likewise deprive him of the pleasure of inserting a number of very useful remarks made by his learned and ingenious friend Dr DUPLANIL, of Paris, who has done him the honour of publishing an elegant translation of this work, in five volumes octavo, accombanied with an excellent commentary.

The improvements of the later editions are chiefly nserted in the form of notes. These are intended eiher to illustrate the text, or to put people on their uard in dangerous situations, and prevent fatal misakes in the practice of medicine, which, it is to be reretted, are but too common.

Some attention has likewise been paid to the lanuage. Where that was either inaccurate or obscure, s far as was practicable, it has been corrected. In-

ADVERTISEMENT.

deed, the Author has all along endeavoured to observe such simplicity and perspicuity in his stile as might enable the reader clearly to understand it: a circumstance of the utmost importance in a performance of this nature.

Although the DOMESTIC MEDICINE was never intended to supersede the use of a physician, but to supply his place in situations where medical assistance could not easily be obtained; yet the Author is sorry to observe, that the jealousies and fears of the Faculty have prompted many of them to treat this Work in a manner altogether unbecoming the professors of a liberal science : notwithstanding their injurious treatment, he is determined to persist in his plan being fully convinced of its utility ; nor shall interest or prejudice ever deter him from exerting his best endeavours to render the Medical art more extensively beneficial to MANKIND.

But this illiberal treatment of the faculty is not the only thing of which the Author has cause to complain. By some of them his Book has been served up mangled and mutilated, and its title, type, size, &c so closely imitated, that purchasers are misled, and frequently buy these spurious productions instead o the real one. That a needy Author, incapable himself of producing an original work, should prey upor another, and that a mercenary Bookseller should vend such productions, knowing them to be stolen, are things not at all to be wondered at; but that all this can be done with impunity, shews, that the laws o this country, respecting literary property, are still in a very imperfect state, and stand much in need of a mendment.

London, Dec. 10. 1789.

3

PREFACE.

WHEN I first signified my intention of publishing the following sheets, I was told by my friends it would draw on me the resentment of the whole Faculty. As I never could entertain such an unfavourable idea, I was resolved to make the experiment, which indeed came out pretty much as might have been expected. Many whose learning and liberality of sentiments do honour to medicine, received the book in a manner which at once shewed their indulgence, and the falsity of the opinion *that every physician wishes to conceal his art*; while the more selfish and narrow-minded, generally the most numerous in every profession, have not failed to persecute both the book and its Author.

The reception, however, which this work has met with from the Public, merits my most grateful acknowledgments. As the best way of expressing these, I have endeavoured to render it more generally useful, by enlarging the *prophylaxis*, or that part which treats of preventing dispases; and by adding many articles which had been entirely omitted in the former impressions. It is needless to enumerate these additions; I shall only say, that I hope they will be found real improvements.

The observations relative to Nursing and the Management of Children, were chiefly suggested by an extensive practice among infants, in a large branch of the Foundling Hospital, where I had an opportunity, not only of treating the diseases incident to childhood, but likewise of trying different plans of nursing, and observing their effects. Whenever I had it in my power to place the chilhren under the care of proper nurses, to instruct these nurses in their duty, and to be satisfied that they performed it, very few of them died ; but when, from distance of place, and other unavoidable circumstances, the children were left to the sole care of mercenary nurses, without iny person to instruct or superintend them, scarce any of hem lived.

This was so apparent, as with me to amount to a

PREFACE.

proof of the following melancholy fact: That almost on half of the human species perish in infancy, by improper mamagement or neglect. This reflection has made me ofte wish to be the happy instrument of alleviating the miserie of those suffering innocents, or of rescuing them from a untimely grave. No one, who has not had an opportuni ty of observing them, can imagine what absurd and ridi culous practices still prevail in the nursing and manage ment of infants, and what numbers of lives are by tha means lost to society. As these practices are chiefly ow ing to ignorance, it is to be hoped, that when nurses ar better informed, their conduct will be more proper.

The application of medicine to the various occupation of life has been in general the result of observation. At extensive practice for several years, in one of the larges manufacturing towns in England, afforded me sufficien opportunities of observing the injuries which those usefu people sustain from their particular employments, and like wise of trying various methods of obviating such injuries The success which attended these trials was sufficient t encourage this attempt, which I hope will be of use t those who are under the necessity of earning their bread br such employments as are unfavourable to health.

I do not mean to intimidate men, far less to insinuat that even those arts, the practice of which is attended with some degree of danger, should not be carried on ; but to guard the less cautious and unwary against those danger which they have it in their power to avoid, and which they often, through mere ignorance, incur. As every oc cupation in life disposes those who follow it to some par ticular diseases more than to others, it is certainly of im portance to know these, in order that people may be upor their guard against them. It is always better to be warn ed of the approach of an enemy, than to be surprised by him, especially where there is a possibility of avoiding the danger.

The observations concerning Diet, Air, Exercise, &c are of a more general nature, and have not escaped the attention of physicians in any age. They are subjects of too great importance, however, to be passed over in an attempt of this kind, and can never be sufficiently recom-

viii

ix

mended. The man who pays a proper attention to these, will seldom need the physician; and he who does not, will seldom enjoy health, let him employ as many physicians as he pleases.

Though we have endeavoured to point out the causes of diseases, and to put people upon their guard against them, yet it must be acknowledged that they are often of such a nature as to admit of being removed only by the diligence and activity of the public magistrate. We are sorry, indeed, to observe, that the power of the magistrate is seldom exerted in this country for the preservation of health. The importance of a proper medical police is either not understood, or little regarded. Many things highly injurious to the public health are daily practised with impunity, while others, absolutely necessary for its preservation, are entirely neglected.

Some of the public means of preserving health are mentioned in the general prophylaxis, as the inspection of provisions, widening the streets of great towns, keeping them clean, supplying the inhabitants with wholesome water, &c.; but they are passed over in a very cursory manner. A proper attention to these would have swelled this volume to too large a size; I have therefore reserved them for the subject of a future publication.

In the treatment of diseases, I have been peculiarly attentive to regimen. The generality of people lay too much stress upon Medicine, and trust too little to their own endeavours. It is always in the power of the patient, or of those about him, to do as much towards his recovery as can be effected by the physician. By not attending to this, the designs of Medicine are often frustrated; and the patient, by pursuing a wrong plan of regimen, not only defeats the Doctor's endeavours, but renders them dangerous. I have often known patients killed by an error in regimen, when they were using very proper medicines. It will be said, the physician orders the regimen when he prescribes a medicine. I wish it were so, both for the honour of the Faculty and the safety of their patients : but physicians, as well as other people, are too little attentive to this matter.

Though many reckon it doubtful whether physic is

more beneficial or hurtful to mankind, yet all allow the necessity and importance of a proper regimen in diseases. Indeed the very appetites of the sick prove its propriety. No man in his senses ever imagined that a person in a fever, for example, could eat, drink, or conduct himself in the same manner as one in perfect health. This part of medicine, therefore, is evidently founded in Nature, and is every way consistent with reason and common sense. Had men been more attentive to it, and less solicitous in hunting after secret remedies, Medicine had never become an object of ridicule.

This seems to have been the first idea of Medicine. The ancient physicians acted chiefly in the capacity of nurses. They went very little beyond aliment in their prescriptions ; and even this they generally administered themselves, attending the sick for that purpose through the whole course of the disease ; which gave them an opportunity, not only of marking the changes of diseases with great accuracy, but likewise of observing the effects of their different applications, and adapting them to the symptoms.

The learned Dr Arbuthnot asserts, that by a proper attention to those things which are almost within the reach of every body, more good and less mischief will be done in acute diseases, than by medicines improperly and unseasonably administered; and that great cures may be effected in chronical distempers, by a proper regimen of the diet only. So entirely do the Doctor's sentiments and mine agree, that I would advise every person, ignorant of physic, to confine his practice solely to diet, and the other parts of regimen; by which means he may often do much good and can seldom do any hurt.

This seems also to have been the opinion of the ingenious Dr Huxham, who observes, that we often seek from Art what all-bountiful Nature most readily, and as effectually, offers us, had we diligence and sagacity enough to observe and make use of them; that the *dietetic* part of Medicine is not so much studied as it ought to be; and that, though less pompous, yet it is the most natural method of curing diseases.

To render the book more generally useful, however, as well as more acceptable to the intelligent part of mankind,

xi

I have in most diseases, besides regimen, recommended some of the most simple and approved forms of medicine, and added such cautions and directions as seemed necessary for their safe administration. It would no doubt have been more acceptable to many, had it abounded with pompous prescriptions, and promised great cures in consequence of their use ; but this was not my plan : I think the administration of medicines always doubtful, and often dangerous, and would much rather teach men how to avoid the necessity of using them, than how they should be used.

Several medicines, and those of considerable efficacy, may be administered with great freedom and safety. Physicians generally trifle a long time with medicines before they learn their proper use. Many peasants at present know better how to use some of the most important articles in the materia medica, than physicians did a century ago; and doubtless the same observation will hold with regard to others some time hence. Wherever I was convinced that medicine might be used with safety, or where the cure depended chiefly upon it, I have taken care to recommend it; but where it was either highly dangerous; or not very necessary, it is omitted.

I have not troubled the reader with an useless parade of quotations from different authors, but have in general adopted their observations where my own were either defective, or totally wanting. Those to whom I am most obliged are, Ramazini, Arbuthnot, and Tissot; the last of which, in his Avis au Peuple, comes the nearest to my views of any author which I have seen. Had the doctor's plan been as complete as the execution is masterly, we should have had no occasion for any new treatise of this kind soon; but by confining himself to the acute diseases, he has in my opinion omitted the most useful part of his subject. People in acute diseases may sometimes be their own physicians; but in the chronic, the cure must ever depend chiefly upon the patient's own endeavours. The Doctor has also passed over the Prophylaxis, or preventive part of Medicine, very slightly, though it is certainly of the greatest importance in such a work. He had no doubt his reasons for so doing, and I am so far from finding fault with him,

that I think his performance does great honour both to his head and to his heart.

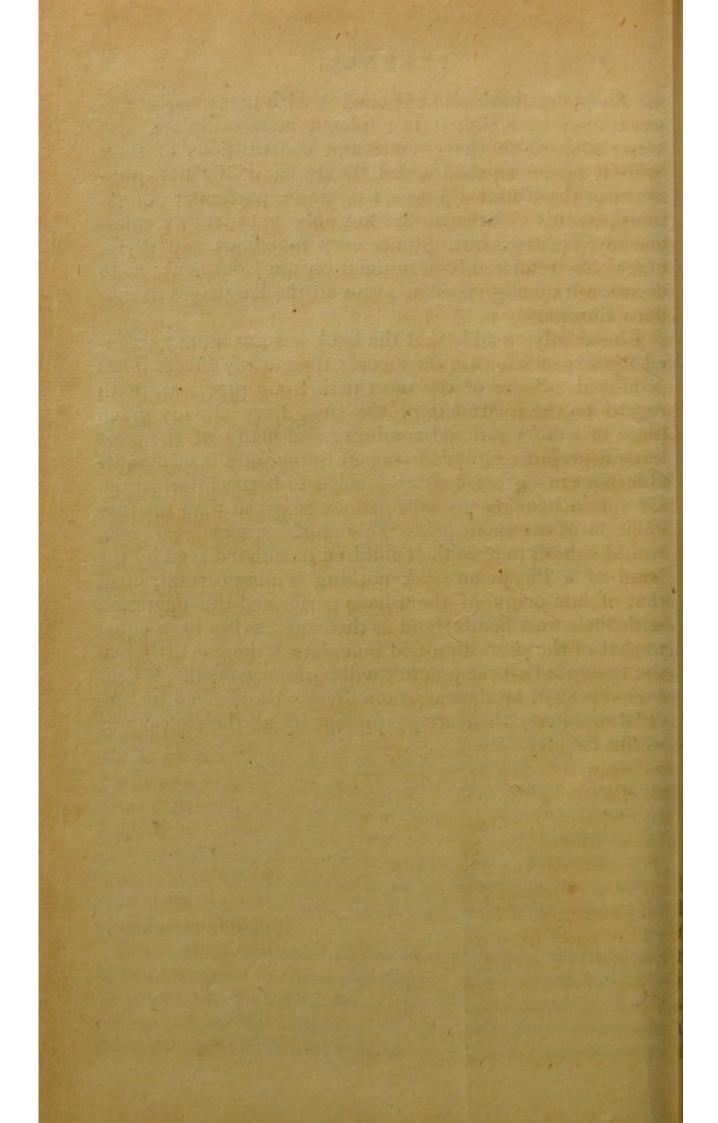
Several other foreign physicians of eminence have written on nearly the same plan with Tissot, as the Baron Van Swieton, physician to their Imperial Majesties, M. Rosen, first physician of the kingdom of Sweden, &c.; but these gentlemen's productions have never come to my hand. I cannot help wishing, however, that some of our distinguished countrymen would follow their example. There still remains much to be done on this subject, and it does not appear to me how any man could better employ his time, or talents, than in eradicating hurtful prejudices, and diffusing useful knowledge among the people.

I know some of the Faculty disapprove of every attempt of this nature, imagining that it must totally destroy their influence. But this notion appears to me to be as absurd as it is illiberal. People in distress will always apply for relief to men of superior abilities, when they have it in their power; and they will do this with far greater confidence and readiness, when they believe that Medicine is a rational science, than when they take it to be only a matter of mere conjecture.

Though I have endeavoured to render this Treatise plain and useful, yet I found it impossible to avoid some terms of art; but those are in general either explained, or are such as most people understand. In short, I have endeavoured to conform my style to the capacities of mankind in general; and, if my Readers do not flatter either themselves or me, with some degree of success. On a medical subject, this is not so easy a matter as some may imagine. To make a shew of learning is easier than to write plain sense, especially in a science which has been kept at such a distance from common observation. It would however be no difficult matter to prove, that every thing valuable in the practical part of Medicine is within the reach of common abilities.

It would be ungenerous not to express my warmest acknowledgments to those Gentlemen who have endeavoured to extend the usefulness of this Performance, by translating it into the language of their respective countries. Most of them have not only given elegant translations of the Book, but have also enriched it with many useful observations; by which it is rendered more complete, and better adapted to the climate and constitutions of their countrymen. To the learned Dr Duplanil of Paris, physician to the Count d'Artois, I lie under particular obligations; as this Gentleman has not only considerably enlarged my Treatise, but, by his very ingenious and useful notes, has rendered it so popular on the Continent, as to occasion its being translated into all the languages of modern Europe.

I have only to add, that the book has not more exceeded my expectations in its success, than in the effects it has produced. Some of the most pernicious practices, with regard to the treatment of the sick, have already given place to a more rational conduct; and many of the most hurtful prejudices, which seemed to be quite insurmountable, have in a great measure yielded to better information. Of this a stronger instance cannot be given than the inoculation of the small-pox. Few mothers, some years ago, would submit to have their children inoculated even by the hand of a Physician; yet nothing is more certain, than that of late many of them have performed this operation with their own hands; and as their success has been equal to that of the most dignified inoculators, there is little reason to doubt that the practice will become general. Whenever this shall be the case, more lives will be saved by inoculation alone, than are at present by all the endeavours of the Faculty.



INTRODUCTION.

HE improvements in Medicine, since the revival of learning, have by no means kept pace with those of the other arts. The reason is obvious. Medicine has been studied by few, except those who intended to live by it as a trade. Such, either from a mistaken zeal for the honour of Medicine, or to raise their own importance, have endeavoured to disguise and conceal the art. Medical authors have generally written in a foreign language ; and those who were unequal to this task, have even valued themselves upon couching, at least, their prescriptions, in terms and characters unintelligible to the rest of mankind.

The contentions of the clergy, which happened soon after the restoration of learning, engaged the attention of mankind, and paved the way for that freedom of thought and nquiry, which has since prevailed in most parts of Europe with regard to religious matters. Every man took a side n those bloody disputes; and every gentleman, that he night distinguish himself on one side or other, was intructed in Divinity. This taught people to think and eason for themselves in matters of religion, and at last toally destroyed that complete and absolute dominion which ne clergy had obtained over the minds of men.

The study of Law has likewise, in most civilized nations, een justly deemed a necessary part of the education of a entleman. Every gentleman ought certainly to know at ast the laws of his own country : and, if he were also acnainted with those of others, it might be more than barean ornament to him.

The different branches of Philosophy have also of late en very universally studied by all who pretended to a liral education. The advantages of this are manifest. It es the mind from prejudice and superstition; fits it for investigation of truth; induces habits of reasoning and lging properly; opens an inexhaustible source of entainment; paves the way to the improvement of arts and riculture; and qualifies men for acting with propriety in most important stations of life. Natural History is likewise become an object of genera attention; and it well deserves to be so. It leads to dis coveries of the greatest importance. Indeed agriculture the most useful of all arts, is only a branch of Natura History, and can never arrive at a high degree of improve ment where the study of that science is neglected.

Medicine, however, has not, as far as I know, in any country, been reckoned a necessary part of the education of a gentleman. But surely no sufficient reason can be assigned for this omission. No science lays open a more extensive field of useful knowledge, or affords a more ample entertainment to an inquisitive mind. Anatomy Botany, Chymistry, and the *Materia Medica*, are al branches of Natural History, and are fraught with such amusement and utility, that the man who entirely neglect them has but a sorry claim either to taste or learning. I a gentleman has a turn for observation, says an excellen and sensible writer,* surely the natural history of his own species is a more interesting subject, and presents a more ample field for the exertion of genius, than the natura history of spiders and cockle-shells.

We do not mean that every man should become a phy sician. This would be an attempt as ridiculous as it is im possible. All we plead for is, that men of sense and learning should be so far acquainted with the general prin ciples of Medicine, as to be in a condition to derive from it some of those advantages with which it is fraught; and at the same time to guard themselves against the destructive influences of Ignorance, Superstition, and Quackery

As matters stand at present, it is easier to cheat a majout of his life than of a shilling, and almost impossible either to detect or punish the offender. Notwithstandin, this, people still shut their eyes, and take every thing up on trust that is administered by any Pretender to Medicine without daring to ask him a reason for any part of his conduct. Implicit faith, every-where else the object of ridicule, is still sacred here. Many of the Faculty are n doubt worthy of all the confidence that can be reposed i them; but as this can never be the character of every in dividual in any profession, it would certainly be for the * Observations on the Duties and Offices of a Physician.

safety, as well as the honour, of mankind, to have some check upon the conduct of those to whom they entrust so valuable a treasure as health.

The veil of mystery, which still hangs over Medicine, renders it not only a conjectural, but even a suspicious art. This has been long ago removed from the other sciences, which induces many to believe that Medicine is a mere trick, and that it will not bear a fair and candid examination. Medicine, however, needs only to be better known, in order to secure the general esteem of mankind. Its precepts are such as every wise man would chuse to observe, and it forbids nothing but what is incompatible with true happiness.

Disguising Medicine not only retards its improvement as a science, but exposes the profession to ridicule, and is injurious to the true interests of society. An art founded on observation never can arrive at any high degree of improvement, while it is confined to a few who make a trade of it. The united observations of all the ingenuous and sensible part of mankind, would do more in a few years towards the improvement of Medicine, than those of the Faculty alone in a great many. Any man can tell when a medicine gives him ease as well as a physician; and if he only knows the name and dose of the medicine, and the name of the disease, it is sufficient to perpetuate the fact. Yet the man who adds one single fact to the stock of medical observations, does more real service to the art, than he who writes a volume in support of some favourable hypothesis.

Very few of the valuable discoveries in Medicine have been made by physicians. They have in general either been the effect of chance or of necessity, and have been usually opposed by the Faculty, till every one else was convinced of their importance. An implicit faith in the opinions of teachers, an attachment to systems and established forms, and the dread of reflections, will always operate upon those who follow Medicine as a trade. Few improvements are to be expected from a man who might ruin his character and family by even the smallest deviation from an established rule.

If men of letters, says the author of the performance

quoted above, were to claim their right of inquiry into a matter that so nearly concerns them, the good effects on Medicine would soon appear. Such men would have no separate interest from that of the art. They would detect and expose assuming Ignorance under the mask of Gravity and Importance, and would be the judges and patrons of modest merit. Not having their understandings perverted in their youth by false theories, unawed by authority, and unbiassed by interest, they would canvass with freedom the most universally received principles in Medicine, and expose the uncertainty of many of those doctrines, of which a physician dares not so much as seem to doubt.

No argument, continues he, can be brought against laying open Medicine, which does not apply with equal, if not greater force, to religion ; yet experience has shewn, that since the laity have asserted their right of inquiry into these subjects, Theology, considered as a science, has been improved, the interests of real religion have been promoted, and the clergy have become a more learned, a more useful, and a more respectable body of men, than they ever were in the days of their greatest power and splendour.

Had other Medical writers been as honest as this gentleman, the art had been upon a very different footing at this day. Most of them extol the merit of those men who brought Philosophy out of the schools, and subjected it to the rules of common sense. But they never consider that Medicine, at present, is in nearly the same situation as Philosophy was at that time, and that it might be as much improved by being treated in the same manner. Indeed, no science can either be rendered rational or useful, without being submitted to the common sense and reason of mankind. These alone stamp a value upon science : and what will not bear the test of these ought to be rejected.

I know it will be said, that diffusing Medical knowledge among the people might induce them to tamper with Medicine, and to trust to their own skill instead of calling a physician. The reverse of this however is true. Persons who have most knowledge in these matters, are commonly most ready both to ask and to follow advice, when it is necessary.

zviii

The ignorant are always most apt to tamper with Medicine, and have the least confidence in physicians. Instances of this are daily to be met with among the ignorant peasants, who, while they absolutely refuse to take a medicine which has been prescribed by a physician, will swallow with greediness any thing that is recommended to them by their credulous neighbours. Where men will act even without knowledge, it is certainly more rational to afford them all the light we can, than to leave them entirely in the dark.

It may be also alleged, that laying Medicine more open to mankind would lessen their faith in it. This would indeed be the case with regard to some; but it would have a quite contrary effect upon others. I know many people who have the utmost dread and horror of every thing prescribed by a physician, but who will nevertheless very readily take a medicine which they know, and whose qualities they are in some measure acquainted with. Hence it is evident, that the dread arises from the doctor, not from the drug. Nothing ever can, or will inspire mankind, with an absolute confidence in physicians, but an open, frank, and undisguised behaviour. While the least shadow of mystery remains in the conduct of the Faculty, doubts, jealousies, and suspicions will arise in the minds of men.

No doubt cases will sometimes occur, where a prudent physician may find it expedient to disguise a medicine. The whims and humours of men must be regarded by those who mean to do them service; but this can never affect the general argument in favour of candour and openness. A man might as well allege, because there are knaves and fools in the world, that he ought to take every one he meets for such, and to treat him accordingly. A sensible physician will always know where disguise is necessary; but it ought never to appear on the face of his general conduct.

The appearance of mystery in the conduct of physicians not only renders their art suspicious, but lays the foundations of Quackery, which is the disgrace of Medicine. No two characters can be more different than that of the honest physician and the quack; yet they have generally been very much confounded. The line between them is not sufficiently apparent; at least it is too fine for

C 9

the general eye. Few persons are able to distinguish sufficiently between the conduct of that man who administers a secret medicine, and him who writes a prescription in mystical characters and an unknown tongue. Thus the conduct of the honest physician, which needs no disguise, gives a sanction to that of the villain, whose sole consequence depends upon secrecy.

No laws will ever be able to prevent quackery, while people believe that the quack is as honest a man, and as well qualified, as the physician. A very small degree of medical knowledge, however, would be sufficient to break this spell; and nothing else can effectually undeceive them. It is the ignorance and credulity of the multitude, with regard to medicine, which renders them such an easy prey to every one who has the hardiness to attack them on this quarter. Nor can the evil be remedied by any other means but by making them wiser.

The most effectual way to destroy quackery in any art or science, is to diffuse the knowledge of it among mankind. Did physicians write their prescriptions in the common language of the country, and explain their intentions to the patient, as far as he could understand them, it would enable him to know when the medicine had the desired effect; would inspire him with absolute confidence in the physician; and would make him dread and detest every man who pretended to cram a secret medicine down his throat.

Men in the different states of society, have very different views of the same object. Sometime ago it was the practice of this country for every person to say his prayers in Latin, whether he knew any thing of that language or not. This conduct, though sacred in the eyes of our ancestors, appears ridiculous enough to us; and doubtless some parts of ours will seem as strange to posterity. Among these we may reckon the present mode of medical prescription, which, we venture to affirm, will sometime hence appear to have been completely ridiculous, and a very high burlesque upon the common sense of mankind.

But this practice is not only ridiculous, it is likewise dangerous. However capable physicians may be of writ-

ing Latin, I am certain apothecaries are not always in a condition to read it, and that dangerous mistakes, in consequence of this, often happen. But suppose the apothecary ever so able to read the physician's prescription, he is generally otherwise employed, and the business of making up prescriptions is left entirely to the apprentice. By this means the greatest man in the kingdom, even when he employs a first-rate physician, in reality trusts his life in the hands of an idle-boy, who has not only the chance of being very ignorant, but likewise giddy and careless. Mistakes will sometimes happen in spite of the greatest care ; but, where human lives are concerned, all possible methods ought certainly to be taken to prevent them. For this reason, the prescriptions of physicians, instead of being couched in mystical characters, and a foreign language, ought, in my humble opinion, to be conceived in the most plain and obvious terms imaginable.

Diffusing medical knowledge among the people, would not only tend to improve the art, and to banish quackery, but likewise to render Medicine more universally useful, by extending its benefits to society. However long Medicine may have been known as a science, we will venture to say, that many of its most important purposes to society have either been overlooked, or very little attended to. The cure of diseases is doubtless a matter of great importance ; but the preservation of health is of still greater. This is the concern of every man, and surely what relates to it ought to be rendered as plain and obvious to all as possible. It is not to be supposed, that men can be sufficiently upon their guard against diseases, who are totally ignorant of their causes. Neither can the legislature, in whose power t is to do much more for preserving the public health than can ever be done by the Faculty, exert that power with propriety, and to the greatest advantage, without some deree of medical knowledge.

Men of every occupation and condition in life, might aail themselves of a degree of medical knowledge; as it vould teach them to avoid the dangers peculiar to their espective stations; which is always easier than to remove heir effects. Medical knowledge, instead of being a check pon the enjoyments of life, only teaches men how to make the most of them. It has indeed been said, that to live medically is to live miserably: but it might with equal propriety be said, that to live rationally is to live miserably. If physicians obtrude their own ridiculous whims upon mankind, or lay down rules inconsistent with reason or common sense, no doubt they will be despised. But this is not the fault of Medicine. It proposes no rules that I know, but such as are perfectly consistent with the true enjoyment of life, and every way conducive to the real happiness of mankind.

We are sorry indeed to observe, that Medicine has hitherto hardly been considered as a popular science, but as a branch of knowledge solely confined to a particular set of men, while all the rest have been taught not only to neglect, but even to dread and despise it. It will however appear, upon a more strict examination, that no science better deserves their attention, or is more capable of being rendered generally useful.

People are told, that if they dip the least into medica knowledge, it will render them fanciful, and make then believe they have every disease of which they read. This I am satisfied will seldom be the case with sensible people and, suppose it were, they must soon be undeceived. A short time will shew them their error, and a little more reading will infallibly correct it. A single instance will shew the absurdity of this notion. A sensible lady, rathe than read a medical performance, which would instruct he in the management of her children, must leave them entirely to the care and conduct of the most ignorant, credulous, and superstitious of the human species.

No part of Medicine is of more general importance than that which relates to the nursing and managemen of children. Yet few parents pay a proper attention to it. They leave the sole care of their tender offspring, a the very time when care and attention are most necessary to hirelings, who are either too careless to do their duty or too ignorant to know it. We will venture to affirm that more human lives are lost by the carelessness and in attention of parents and nurses, than are saved by the Faculty; and that the joint and well-conducted endea yours, both of private persons and the public, for the

xxii

preservation of infant lives, would be of more advantage to society, than the whole art of Medicine, upon its present footing.

The benefits of Medicine, as a trade, will ever be confined to those who are able to pay for them; and of course, the far greater part of mankind will be every where deprived of them. Physicians, like every other people, must live by their employment, and the poor must either want advice altogether, or take up that which is worse than none. There are not, however, any where wanting well-disposed people, of better sense, who are willing to supply the defect of medical advice to the poor, did not their fear of doing ill often suppress their inclinaion to do good. Such people are often deterred from he most noble and praise-worthy actions, by the foolish larms sounded in their ears by a set of men, who, to raise heir own importance, magnify the difficulties of doing good, find fault with what is truly commendable, and leer at every attempt to relieve the sick which is not conucted by the precise rules of Medicine. These gentleien must however excuse me for saying, that I have ofta known such well-disposed persons do much good ; and at their practice, which is generally the result of good ense and observation, assisted by a little medical reading, frequently more rational than that of the ignorant retainto physic, who despises both reason and observation, hat he may go wrong by rule; and who, while he is dosing s patient with medicines, often neglects other things of r greater importance.

Many things are necessary for the sick, besides medine. Nor is the person who takes care to procure those r them, of less importance than a physician. The per oftener perish in diseases for want of proper nursing an of medicine. They are frequently in want of even e necessaries of life, and still more so of what is proper a sick-bed. No one can imagine, who has not been vitness of their situations, how much good a well-dissed person may do, by only taking care to have such nts supplied. There certainly cannot be a more necesy, a more noble, or a more god-like action, than to ninister to the wants of our fellow-creatures in distress. While virtue or religion are known among mankind, this conduct will be approved ; and while Heaven is just, it must be rewarded !

Persons who do not chuse to administer medicine to the sick, may nevertheless direct their regimen. An eminent medical author has said, That by diet alone all the intentions of Medicine may be answered *. No doubt a great many of them may; but there are other things beside diet, which ought by no means to be neglected. Many hurtful and destructive prejudices, with regard to the treatment of the sick, still prevail among the people, which persons of better sense and learning alone can eradicate. To guard the poor against the influences of these prejudices, and to instil into their minds some just ideas of the importance of proper food, fresh air, cleanliness, and other pieces of regimen necessary in diseases, would be a work of great merit, and productive of many happy consequences. A proper regimen in most diseases, is at least equal to medicine, and in many of them it is greatly superior.

To assist the well-meant endeavours of the humane and benevolent in relieving distress; to eradicate dangerous and hurtful prejudices; to guard the ignorant and credulous against the frauds and impositions of quacks and impostors; and to shew men what is in their own power, both with regard to the prevention and cure of diseases. are certainly objects worthy of the physician's attention. These were the leading views in composing and publishing the following sheets. They were suggested by an attention to the conduct of mankind, with regard to Medicine, in the course of a pretty long practice in different parts of this island, during which the author has ofter had occasion to wish that his patients, or those about them, had been possessed of some such plain directory for regulating their conduct. How far he has succeeded in his endeavours to supply this deficiency, must be left for others to determine ; but if they be found to contribute in any measure towards alleviating the calamities of mankind he will think his labour very well bestowed.

* Arbuthnot.

PART I.

OF THE

GENERAL CAUSES OF DISEASES.

CHAP. I.

and the second s

OF CHILDREN.

THE better to trace diseases from their original causes, we shall take a view of the common treatment of mankind in the state of infancy. In this period of our lives, the foundations of a good or bad constitution are generally laid; it is therefore of importance, that parents be well acquainted with the various causes which may injure the health of their offspring.

It appears from the annual registers of the dead, that almost one half of the children born in Great Britain die under twelve years of age. To many, indeed, this may appear a natural evil; but, on due examination, it will be found to be one of our own creating. Were the death of infants a natural evil, other animals would be as liable to die young as man; but this we find is by no means the case.

It may seem strange that man, notwithstanding his superior reason, should fall so far short of other animals in the management of his young; but our surprise will soon cease, if we consider that brutes, guided by instinct, never err in this respect; while man, trusting solely to art, is seldom right. Were a catalogue of those infants, who perish annually by art alone, exhibited to public view, it would astonish most people.

If parents are above taking care of their children, others' must be employed for that purpose : these will always endeavour to recommend themselves by the appearance of extraordinary skill and address. By this means such a number of unnecessary and destructive articles have been

OF CHILDREN.

introduced into the diet, clothing, &c. of infants, that it is no wonder so many of them perish.

Nothing can be more preposterous than a mother who thinks it below her to take care of her own child, or who is so ignorant as not to know what is proper to be done for it. If we search Nature throughout, we cannot find a parallel to this. Every other animal is the nurse of its own offspring, and they thrive accordingly. Were the brutes to bring up their young by proxy, they would share the same fate with those of the human species.

We mean not, however, to impose it as a task upon every mother to suckle her own child. This, whatever speculative writers may allege, is in some cases impracticable, and would inevitably prove destructive both to the mother and child. Women of delicate constitutions, subject to hysteric fits, or other nervous affections, make very bad nurses; and these complaints are now so common, that it is rare to find a woman of fashion free from them; such women, therefore, supposing them willing, are often unable to suckle their own children.

Almost every mother would be in a condition to give suck, did mankind live agreeably to Nature : but whoever considers how far many mothers deviate from her dictates, will not be surprised to find some of them unable to perform that necessary office. Mothers who do not eat a sufficient quantity of solid food, nor enjoy the benefit of free air and exercise, can neither have wholesome juices themselves, nor afford proper nourishment for an infant. Hence children who are suckled by delicate women, either die young, or continue weak and sickly all their lives.

When we say that mothers are not always in a condition to suckle their own children, we would not be understood as discouraging that practice. Every mother who can, ought certainly to perform so tender and agreeable an office*. But, suppose it to be out of her power,

* Many advantages would arise to society, as well as to individuals, from mothers suckling their own children. It would prevent the temptation which poor women are laid under of abandoning their children to suckle those of the rich for the sake of gain; by which means society loses many of its most useful members, and mothers become in

26

she may, nevertheless, be of great service to her child. The business of nursing is by no means confined to giving suck. To a woman who abounds with milk, this is the easiest part of it. Numberless other offices are necessary for a child, which the mother ought at least to see done.

A mother who abandons the fruit of her womb, as soon as it is born, to the sole care of an hireling, hardly deserves that name. A child, by being brought up under the mother's eye, not only secures her affection, but may reap all the advantages of a parent's eare though it be suckled by another. How can a mother be better employed than in superintending the nursery? This is at once the most delightful and important office; yet the most trivial business or insipid amusements are often preferred to it ! A strong proof both of the bad taste and wrong education of modern females.

It is indeed to be regretted, that more care is not bestowed in teaching the proper management of children to those whom Nature has designed for mothers. This, instead of being made the principal, is seldom considered is any part of female education. Is it any wonder, when females so educated come to be mothers, that they should be quite ignorant of the duties belonging to that character? However strange it may appear, it is certainly true, that many mothers, and those of fashion too, are as ignoant, when they have brought a child into the world, of what is to be done for it, as the infant itself. Indeed, the most ignorant of the sex are generally reckoned the nost knowing in the business of nursing. Hence, sensible people become the dupes of ignorance and superstition; nd the nursing of children, instead of being conducted by eason, is the result of whim and caprice.*

ome sense the murderers of their own offspring. I am sure I speak ithin the truth when I say, that not one in twenty of those children ve, who are thus abandoned by their mothers. For this reason no other should be allowed to suckle another's child, till her own is either ead, or fit to be weaned. A regulation of this kind would save many res among the poorer sort, and could do no hurt to the rich, as most woen who make good nurses are able to suckle two children in succession on the same milk.

* Tacitus, the celebrated Roman historian, complains greatly or

OF CHILDREN.

Were the time that is generally spent by females in the acquisition of trifling accomplishments, employed in learning how to bring up their children; how to dress them so as not to hurt, cramp, or confine their motions; how to feed them with wholesome and nourishing food; how to exercise their tender bodies, so as best to promote their growth and strength: were these made the objects of female instruction, mankind would derive the greatest advantages from it. But while the education of females implies little more than what relates to dress and public shew, we have nothing to expect from them but ignorance even in the most important concerns.

Did mothers reflect on their own importance, and lay it to heart, they would embrace every opportunity of informing themselves of the duties which they owe to their infant offspring. It is their province, not only to form the body, but also to give the mind its most early bias. They have it very much in their power to make men healthy or valetudinary, useful in life, or the pests of society.

But the mother is not the only person concerned in the management of children. The father has an equal interest in their welfare, and ought to assist in every thing that respects either the improvement of the body or mind. It is pity that the men should be so inattentive to this matter. Their negligence is one reason why females know so little of it. Women will ever be desirous to excel in such accomplishments as recommend them to the other sex. But men generally keep at such a distance from even the smallest acquaintance with the affairs of the nursery, that many would reckon it an affront, were they supposed to know any thing of them. Not so, however, with the kennel or the stables : a gentleman of the first rank is not ashamed to give directions concerning the ma-

the degeneracy of the Roman ladies in his time, with regard to the care of their offspring. He says that, in former times, the greatest women in Rome used to account it their chief glory to keep the house and attend their children; but that now the young infant was committed to the sole care of some poor Grecian wench, or other menial servant.—We are afraid, wherever luxury and effeminacy prevail, there will be too much ground for this complaint. nagement of his dogs and horses, yet would blush were he surprised in performing the same office for that being who derived its existence from himself, who is the heir of his fortunes, and the future hope of his country.

Nor have physicians themselves been sufficiently attentive to the management of children; this has been generally considered as the sole province of old women, while men of the first character in physic have refused to visit infants even when sick. Such conduct in the Faculty has not only caused this branch of Medicine to be neglected, but has also encouraged the other sex to assume an absolute title to prescribe for children in the most dangerous diseases. The consequence is, that a physician is seldom called till the good women have exhausted all their skill; when his attendance can only serve to divide the blame, and appease the disconsolate parents.

Nurses should do all in their power to prevent diseases; but when a child is taken ill, some person of skill ought immediately to be consulted. The diseases of children are generally acute, and the least delay is dangerous.

Were physicians more attentive to the diseases of infants, they would not only be better qualified to treat them properly when sick, but likewise to give useful directions for their management when well. The diseases of children are by no means so difficult to be understood as many imagine. It is true, children cannot tell their complaints; but the causes of them may be pretty certainly discovered by observing the symptoms, and putting proper questions to the nurses. Besides, the diseases of infants being less complicated, are easier cured than those of adults *.

It is really astonishing, that so little attention should in general be paid to the preservation of infants. What labour and expence are daily bestowed to prop an old tottering carcase for a few years, while thousands of those.

* The common opinion, that the diseases of infants are hard to discover and difficult to cure, has deterred many physicians from paying that attention to them which they deserve. I can, however, from experience declare, that this opinion is without foundation; and that the diseases of infants are neither so difficult to discover, nor so ill to cure as those of adults.

who might be useful in life, perish without being regard ed! Mankind are too apt to value things according t their present, not their future usefulness. Though thi is of all others the most erroneous method of estimation yet upon no other principle is it possible to account fo the general indifference with respect to the death of in fants.

Of Diseased Parents.

One great source of the diseases of children is, the UN HEALTHINESS OF PARENTS. It would be as reasonable to expect a rich crop from a barren soil, as that strong and healthy children should be born of parents whose constitutions have been worn out with intemperance or discase.

An ingenious writer * observes, that on the constitution of mothers depends originally that of their offspring. No one who believes this, will be surprised, on a view of the female world, to find diseases and death so frequent among children. A delicate female, brought up within doors, an utter stranger to exercise and open air, who lives on tea and other slops, may bring a child into the world, but it will hardly be fit to live. The first blast of disease will nip the tender plant in the bud : or, should it struggle through a few years existence, its feeble frame, shaken with convulsions from every trivial cause, will be unable to perform the common functions of life, and prove a burden to society.

If to the delicacy of mothers, we add the irregular lives of fathers, we shall see further cause to believe that children are often hurt by the constitution of their parents. A sickly frame may be originally induced by hardships or intemperance, but chiefly by the latter. It is impossible that a course of vice should not spoil the best constitution: and, did the evil terminate here, it would be a just punishment for the folly of the sufferer; but when once a disease is contracted and riveted in the habit, it is entailed on posterity. What a dreadful inheritance is the gout, the scurvy, or the King's evil, to transmit to our offspring!

* Rousseau.

how happy had it been for the heir of many a great estate had he been born a beggar, rather than to inherit his faher's fortunes at the expence of inheriting his diseases !

A person labouring under any incurable malady ought not to marry. He thereby not only shortens his own life, out transmits misery to others: but when both parties are ieeply tainted with the scrophula, the scurvy, or the like, he effects must be still worse. If such have any issue, hey must be miserable indeed. Want of attention to hese things, in forming connections for life, has rooted out nore families than plague, famine, or the sword; and as ong as these connections are formed from mercenary views, he evil will be continued *.

In our matrimonial contracts, it is amazing so little reard is had to the health, and form of the object. Our portsmen know, that the generous courser cannot be bred ut of the foundered jade, nor the sagacious spaniel out it he snarling cur. This is settled upon immutable laws. he man who marries a woman of a sickly constitution, id descended of unhealthy parents, whatever his views ay be, cannot be said to act a prudent part. A diseased oman may prove fertile; should this be the case, the faily must become an infirmary : what prospect of happiss the father of such a family has, we shall leave any one judge. †

Such children as have the misfortune to be born of dissed parents, will require to be nursed with greater care an others. This is the only way to make amends for e defects of constitution; and it will often go a great often go a great often go a great often go a great ercise, will do wonders. But when these are neglected, the is to be expected from any other quarter. The dets of constitution cannot be supplied by medicine.

The Lacedemonians condemned their King Archidamus for having ried a weak, puny woman; because, said they, instead of propagating ce of heroes, you will fill the throne with a progeny of changelings. The Jews, by their laws, were, in certain cases, forbid to have any ner of commerce with the diseased; and indeed to all this wise legirs ought to have a special regard. In some countries, diseased perhave actually been forbid to marry. This is an evil of a complicated , a natural deformity, and political mischief; and therefore requires a ic consideration.

Those who inherit any family disease ought to be very circumspect in their manner of living. They should consider well the nature of such disease, and guard against it by a proper regimen. It is certain, that family diseases have often, by proper care, been kept off for one generation; and there is reason to believe, that, by persisting in the same course, such diseases might at length be wholly eradicated. This is a subject very little regarded, though of the greatest importance. Family constitutions are as capable of improvement as family estates; and the libertine, who impairs the one, does greater injury to his posterity, than the prodigal who squanders away the other.

Of the Clothing of Children.

THE clothing of an infant is so simple a matter, that it is surprising how any person should err in it; yet many children lose their lives, and others are deformed, by inattention to this article.

Nature knows no use of clothes to an infant, but to keep it warm. All that is necessary for this purpose, i to wrap it in a soft loose covering. Were a mother lef to the dictates of Nature alone, she would certainly pur sue this course. But the business of dressing an infant ha long been out of the hands of mothers, and has at last be come a secret, which none but adepts pretend to under stand.

From the most early ages it has been thought necessary that a woman in labour should have some person to attend her. This in time became a business; and, as in all o thers, those who were employed in it strove to outdo on another in the different branches of their profession. Th dressing of a child came of course to be considered as th midwife's province, who no doubt imagined, that the mor dexterity she could shew in this article, the more her skil would be admired. Her attempts were seconded by th vanity of parents, who, too often desirous of making shew of the infant as soon as it was born, were ambitiou to have as much finery heaped upon it as possible. Thu it came to be thought as necessary for a midwife to exce in bracing and dressing an infant, as for a surgeon to b expert in applying bandages to a broken limb; and the poor child, as soon as it came into the world, had as many rollers and wrappers applied to its body, as if every bone had been fractured in the birth; while these were often so tight, as not only to gall and wound its tender frame, but even to obstruct the motion of the heart, lungs, and other organs necessary for life.

In most parts of Britain, the practice of rolling children with so many bandages is now, in some measure, laid aside; but it would still be a difficult task to persuade the generality of mankind, that the shape of an infant does not entirely depend on the care of the midwife. So far, however, are all her endeavours to mend the shape from being successful, that they constantly operate the contrary way, and mankind become deformed in proportion to the means used to prevent it. How little deformity of body is to be found among uncivilized nations ? So little indeed, that it is vulgarly believed they put all their deformed children to death. The truth is, they hardly know such a thing as a deformed child. Neither should we, if we followed their example. Savage nations never think of mancling their children. They allow them the full use of every organ, carry them abroad in the open air, wash cheir bodies daily in cold water, &c. By this management, heir children become so strong and hardy, that, by the ime our puny infants get out of the nurse's arms, theirs are able to shift for themselves *.

Among brute animals, no art is necessary to procure a ine shape. Though many of them are extremely delicate when they come into the world, yet we never find them row crooked for want of swaddling bands. Is nature less enerous to the human kind ? No : but we take the buiness out of Nature's hands.

Not only the analogy of other animals, but the very eelings of infants tell us, they ought to be kept easy and ee from all pressure. They cannot indeed tell their com-

* A friend of mine, who was several years on the coast of Africa, tells e, that the natives neither put any clothes upon their children, nor apply their bodies bandages of any kind, but lay them on a pallet, and suffer em to tumble about at pleasure; yet they are all straight, and seldont twe any disease. plaints; but they can shew signs of pain; and this they never fail to do, by crying when hurt by their clothes. No sooner are they freed from their bracings, than they seem pleased and happy; yet, strange infatuation! the moment they hold their peace, they are again committed to their chains.

If we consider the body of an infant as a bundle of soft pipes, replenished with fluids in continual motion, the danger of pressure will appear in the strongest light. Nature, in order to make way for the growth of children, has formed their bodies soft and flexible; and lest they should receive any injury from pressure in the womb, has surrounded the *fætus* every where with fluids. This shews the care which Nature takes to prevent all unequal pressure on the bodies of infants, and to defend them against every thing that might in the least cramp or confine their motions.

Even the bones of an infant are so soft and cartilaginous, that they readily yield to the slightest pressure, and easily assume a bad shape, which can never after be remedied. Hence it is, that so many people appear with high shoulders, crooked spines, and flat breasts, who were as well proportioned at their birth as others, but had the misfortune to be squeezed out of shape by the application of stays and bandages.

Pressure, by obstructing the circulation, likewise prevents the equal distribution of nourishment to the different parts of the body, by which means the growth becomes unequal. One part grows too large, while another remains too small; and thus in time the whole frame becomes disproportioned and mishapen. To this we must add, that when a child is cramped in its clothes, it naturally shrinks from the part that is hurt; and, by putting its body into unnatural postures it becomes deformed by habit.

Deformity of body may indeed proceed from weakness or disease; but, in general, it is the effect of improper clothing. Nine tenths, at least, of the deformity among mankind, must be imputed to this cause. A deformed body is not only disagreeable to the eye, but by a bad figure both the animal and vital functions must be impeded, and of course health impaired. Hence few people remarkably mishapen are strong or healthy.

The new motions which commence at the birth, as the circulation of the whole mass of blood through the lungs, respiration, the peristaltic motion, &c. afford another strong argument for keeping the body of an infant free from all pressure. These organs, not having been accustomed to move, are easily stopped; but when this happens, death must ensue. Hardly any method could be devised more effectually to stop these motions, than bracing the body too tight with rollers * and bandages. Were these to be applied in the same manner to the body of an adult for an equal length of time, they would hardly fail to hurt the digestion and make him sick. How much more hurtful they must prove to the tender bodies of infants, we shall leave any one to judge.

Whoever considers these things will not be surprised, that so many children die of convulsions soon after the birth. These fits are generally attributed to some inward cause; but in fact, they oftener proceed from our own imprudent conduct. I have known a child seized with convulsion-fits soon after the midwife had done swaddling it, who, upon taking off the rollers and bandages, was immediately relieved, and never had the disease afterwards. Numerous examples of this might be given, were they necessary.

It would be safer to fasten the clothes of an infant with strings than pins, as these often gall and irritate their tender skins, and occasion disorders. Pins have, been found sticking about half an inch into the body of a child, after it had died of convulsion fits, which, in all probability, proceeded from that cause.

Children are not only hurt by the tightness of their clothes, but also by the quantity. Every child has some degree of fever after the birth, and if it be loaded with too many clothes, the fever must be increased. But this is not all; the child is generally laid in bed with the mother, who is often likewise feverish; to which we may

* This is by no means inveighing against a thing that does not happen. In many parts of Britain at this day, a roller, eight or ten feet in length, is applied tightly round the child's body as soon as it is born. add the heat of the bed-chamber, the wines, and other heating things, too frequently given to children immediately after the birth. When all these are combined, which does not seldom happen, they must increase the fever to such a degree as will endanger the life of the infant.

The danger of keeping infants too hot will further appear, if we consider that, after they have been for some time in the situation mentioned above, they are often sent into the country to be nursed in a cold house. Is it any wonder, if a child, from such a transition, catches a mortal cold, or contracts some other fatal disease ? When an infant is kept too hot, its lungs, not being sufficiently expanded, are apt to remain weak and flaccid for life ; hence proceed coughs, consumptions, and other diseases of the breast.

It would answer little purpose to specify the particular species of dress proper for an infant. These will always vary in different countries, according to custom and the humour of parents. The great rule to be observed is, That a child have no more clothes than are necessary to keep it warm, and that they be quite easy for its body.

Stays are the very bane of infants. A volume would not suffice to point out all the bad effects of this ridiculous piece of dress both on children and adults. The madness in favour of stays seems, however, to be somewhat abated ; and it is to be hoped the world will, in time, become wise enough to know, that the human shape does not solely depend upon whale bone and bend-leather *.

I shall only add with respect to the clothes of children, that they ought to be kept thoroughly clean. Children perspire more than adults; and if their clothes be not frequently changed, they become very hurtful. Dirty clothes not only gall and fret the tender skins of infants, but like-

* Stays made of bend-leather are worn by all the women of lower station in many parts of England.

I am sorry to understand, that there are still mothers mad enough to lace their daughters very tight in order to improve their shape. As reasoning would be totally lost upon such people, I shall beg leave to ask them, Why there are ten deformed women for one man? and likewise to recommend to their perusal a short moral precept, which forbids us to deform the human body. wise occasion ill smells ; and, what is worse, tend to produce vermin and cutaneous diseases.

Cleanliness is not only agreeable to the eye, but tends greatly to preserve the health of children. It promotes the perspiration, and, by that means, frees the body from superfluous humours, which, if retained, could not fail to occasion diseases. No mother or nurse can have any excuse for allowing a child to be dirty. Poverty may oblige her to give it coarse clothes; but if she does not keep them clean, it must be her own fault.

Of the Food of Children.

NATURE not only points out the food proper for an inant, but actually prepares it. This, however, is not suficient to prevent some who think themselves wiser than Nature, from attempting to bring up their children without her provision. Nothing can shew the disposition which nankind have to depart from Nature, more than their ndeavouring to bring up children without the breast. The mother's milk, or that of a healthy nurse, is unquesionably the best food for an infant. Neither art nor naure can afford a proper substitute for it. Children hay seem to thrive for a few months without the breast ; ut, when teething, the small-pox, and other diseases inident to child-hood, come on, they generally perish.

A child, soon after the birth, shews an inclination to uck; and there is no reason why it should not be gratied. It is true, the mother's milk does not always come nmediately after the birth; but this is the way to bring it : esides, the first milk that the child can squeeze out of the reasts answers the purpose of cleansing, better than all the rugs in the apothecary's shop, and at the same time preents inflammations of the breast, fevers, and other diseases cident to mothers.

It is strange how people came to think that the first thing ven to a child should be drugs. This is beginning with edicine by times, and no wonder if they generally ended ith it. It sometimes happens, indeed, that a child does it discharge the *meconium* so soon as could be wished; is has induced physicians, in such cases, to give some-

thing of an opening nature to cleanse the first passages. Midwives have improved upon this hint, and never fail to give syrups, oils, &c. whether they be necessary or not. Cramming an infant with such indigestible stuff as soon as it is born, can hardly fail to make it sick, and is more likely to occasion diseases, than to prevent them. Children are seldom long after the birth without having passage both by stool and urine; though these evacuations may be wanting for some time without any danger. But if children must have something before they be allowed the breast, let it be a little thin water-pap, to which may be added an equal quantity of new milk; or rather water alone, with the addition of a little raw sugar. If this be given without any wines or spiceries, it will neither heat the blood, load the stomach, nor occasion gripes.

Upon the first sight of an infant, almost every person is struck with the idea of its being weak, feeble, and wanting support. This naturally suggests the need of cordials. Accordingly wines are universally mixed with the first food of children. Nothing can be more fallacious than this way of reasoning, or more hurtful to infants than the conduct founded upon it. Children require very little food for some time after the birth ; and what they receive should be thin, weak, light, and of a cooling quality. A very small quantity of wine is sufficient to heat and inflame the blood of an infant; but every person conversant in these matters must know, that most of the diseases of infants proceed from the heat of their humours.

If the mother or nurse has enough of milk, the child will need little or no other food before the third or fourth month. It will then be proper to give it, once or twice a-day, a little of some food that is easy of digestion, as water-pap, milk-pottage, weak broth with bread in it, and such like. This will ease the mother, will accustom the child by degrees to take food, and will render the weaning both less difficult and less dangerous. All great and sudden transitions are to be avoided in nursing. For this purpose, the food of children ought not only to be simple, but to resemble, as nearly as possible, the properties of milk. Indeed milk itself should make a principal part of their food, not only before they are weaned, but for some time after.

Next to milk, we would recommend good light bread. Bread may be given to a child as soon as it shews an inclination to chew; and it may at all times be allowed as nuch plain bread as it will eat. The very chewing of oread will promote the cutting of the teeth, and the disharge of saliva, while, by mixing with the nurse's milk n the stomach, it will afford an excellent nourishment. Children discover an early inclination to chew whatever s put into their hands. Parents observe the inclination, ut generally mistake the object. Instead of giving the hild something which may at once exercise its gums, and fford it nourishment, they commonly put into its hand a iece of hard metal, or impenetrable coral. A crust of read is the best gum-stick. It not only answers the purose better than any thing else, but has the additional roperties of nourishing the child, and carrying the saliva own to the stomach, which is too valuable a liquor to be st.

Bread, besides being used dry, may be many ways prered into food for children. One of the best methods is boil it in water, afterwards pouring the water off, and ixing with the bread a proper quantity of new milk uniled. Milk is both more wholesome and nourishing is way than boiled, and is less apt to occasion costivess. For a child farther advanced, bread may be mixed veal or chicken broth, made into puddings, or the like. ead is a proper food for children at all times, provided be plain, made of wholesome grain, and well fermented ; t when enriched with fruits, sugars, or such things, it comes very unwholesome.

It is soon enough to allow children animal food when y have got teeth to eat it. They should never taste it after they are weaned, and even then they ought to it sparingly. Indeed, when children live wholly on tetable food, it is apt to sour on their stomachs; but, the other hand, too much flesh heats the body, and ocions fevers, and other inflammatory diseases. This plainpoints out a due mixture of animal and vegetable food nost proper for children.

Few things prove more hurtful to infants, than the common method of sweetening their food. It entices them to take more than they ought to do, which makes them grow fat and bloated. It is pretty certain, if the food of children were quite plain, that they would never take more than enough. Their excesses are entirely owing to nurses. If a child be gorged with food at all hours, and enticed to take it, by making it sweet and agreeable to the palate, is it any wonder that such a child, should in time be induced to crave more food than it ought to have ?

Children may be hurt by too little as well as too much food. After a child is weaned, it ought to be fed four or five times a day; but should never be accustomed to eat in the night; neither should it have too much at a time. Children thrive best with small quantities of food frequently given. This neither overloads the stomach, nor hurts the digestion, and is certainly more agreeable to Nature.

Writers on nursing have inveighed with such vehemence against giving children too much food, that many parents, by endeavouring to shun that error, have run into the opposite extreme, and ruined the constitutions of their children. But the error of pinching children in their food is more hurtful than the other extreme. Nature has many ways of relieving herself when overcharged; but a child, who is pinched with hunger, will never become a strong or healthy man. That errors are frequently committed on both sides, we are ready to acknowledge; but where one child is hurt by the quantity of its food, ten suffer from the quality. This is the principal evil, and claims our strictest attention.

Many people imagine, that the food which they themselves love, cannot be bad for their children : but this notion is very absurd. In the more advanced periods of life we often acquire an inclination for food, which, when children, we could not endure. Besides, there are many things that by habit may agree very well with the stomach of a grown person, which would be hurtful to a child ; as high seasoned, salted, and smoke-dried provisions, &c. It would also be improper to feed children with fat meat, strong broths, rich soups, or the like. All strong liquors are hurtful to children. Some parents teach their children to guzzle ale, and other fermented liquors, at every meal. Such a practice cannot tail to do mischief. These children seldom escape the violence of the small-pox, measles, hooping-cough, or some inflammatory disorder. Milk, water, butter-milk, or whey, are the most proper for children to drink. If they have any thing stronger, it may be fine small beer, or a little wine mixed with water. The stomachs of children can digest well enough without the assistance of warm stimulants : besides, being naturally hot, they are easily hurt by every thing of a heating quality.

Few things are more hurtful to children than unripe fruits. They weaken the powers of digestion, and sour and relax the stomach, by which means it becomes a proper nest for insects. Children indeed shew a great inclination for fruit, and I am apt to believe, that if good ripe fruit were allowed them in proper quantity, it would have no bad effects. We never find a natural inclination wrong, if properly regulated. Fruits are generally of a cooling nature, and correct the heat and acrimony of the humours. This is what most children require; only care should be taken lest they exceed. Indeed the best way to prevent children from going to excess n the use of fruit, or eating that which is bad, is to allow them a proper quantity of what is good *.

Roots which contain a crude viscid jnice should be sparingly given to children. They fill the body with gross humours, and tend to produce eruptive diseases. This caution is peculiarly necessary for the poor; glad to obtain at a small price what will fill the bellies of heir children, they stuff them two or three times a lay with greasy potatoes, or other crude vegetables. Children had better eat a smaller quantity of food which yields a wholesome nourishment, than be cram-

* Children are always sickly in the fruit-season, which may be thus counted for: Two thirds of the fruit which comes to market in this ountry is really unripe; and children not being in a condition to judge or themselves, cat whatever they can lay their hands upon, which often roves little better than a poison to their tender bowels. Servants, and there who have the care of children, should be strictly forbid to give hem any fruit without the knowledge of their parents;

4.1

F

med with what their digestive powers are unable properly to assimilate.

Butter ought likewise to be sparingly given to children. It both relaxes the stomach, and produces gross humours. Indeed, most things that are fat or oily, have this effect. Butter, when salted, becomes still more hurtful. Instead of butter, so liberally given to children in most parts of Britain, we would recommend honey. Honey is not only wholesome, but cooling, cleansing, and tends to sweeten the humours. Children who eat honey are seldom troubled with worms : they are also less subject to cutaneous diseases, as itch, scabbed head, &c.

Many people err in thinking that the diet of children ought to be altogether moist. When children live entirely upon slops, it relaxes their solids, renders them weak, and disposes them to the rickets, the scrophula, and other glandular disorders. Relaxation is one of the most general causes of the diseases of children. Every thing therefore which tends to unbrace their solids, ought to be carefully avoided.

We would not be understood by these observations, as confining children to any particular kind of food. Their diet may be frequently varied, provided always that sufficient regard be had to simplicity.

Of the Exercise of Children.

OF all the causes which conspire to render the life of man short and miserable, none has greater influence than the want of proper EXERCISE: healthy parents, wholesome food, and proper clothing, will avail little, where exercise is neglected. Sufficient exercise will make up for several defects in nursing; but nothing can supply the want of it. It is absolutely necessary to the health, the growth, and the strength of children.

The desire of exercise is coeval with life itself. Were this principle attended to, many diseases might be prevented. But, while indolence and sedentary employments prevent two-thirds of mankind from either taking sufficient exercise themselves, or giving it to their children, what have we to expect but diseases and deformity among their

43

offspring? The rickets, so destructive to children, never appeared in Britain till Manufactures began to flourish, and people, attracted by the love of gain, left the country to follow sedentary employments in great towns. It is amongst these people that this disease chiefly prevails, and not only deforms, but kills many of their offspring.

The conduct of other young animals shews the propriety of giving exercise to children Every other animal makes use of its organs of motion as soon as it can, and many of them, even when under no necessity of moving in quest of food, cannot be restrained without force. This is evidently the case with the calf, the lamb, and most other young animals. If these creatures were not permitted to frisk about and take exercise, they would soon die or become diseased. The same inclination appears very early in the human species ; but as they are not able to take exercise themselves, it is the business of their parents and nurses to assist them.

Children may be exercised various ways. The best method, while they are light, is to carry them about in the nurse's arms *. This gives the nurse an opportunity of talking to the child, and of pointing out every thing that may please and delight its fancy. Besides, it is much safer than swinging an infant in a machine, or leaving it to the care of such as are not fit to take care of themselves. Nothing can be more absurd than to set one child to keep another; this conduct has proved fatal to many infants, and has rendered others miserable for life.

When children begin to walk, the safest and best method of leading them about, is by the hands. The comnon way, of swinging them in leading-strings fixed to heir backs, has several bad consequences. It makes them hrow their bodies forward, and press with their whole veight upon the stomach and breast; by this means the oreathing is obstructed, the breast flattened, and the bowels ompressed; which must hurt the digestion, and occasion onsumptions of the lungs, and other diseases.

* The nurse ought to be careful to keep the child in a proper posion; as deformity is often the consequence of inattention to this circumance. Its situation ought also to be frequently changed. I have known child's legs bent all on one side, by the nurse carrying it constantly on he arm. It is a common notion, that if children are set upon their feet too soon, their legs will become crooked. There is reason to believe, that the very reverse of this is true. Every member acquires strength in proportion as it is exercised. The limbs of children are weak indeed, but their bodies are proportionally light; and had they skill to direct themselves, they would soon be able to support their own weight. Whoever heard of any other animal that became crooked by using its legs too soon ? Indeed, if a child is not permitted to make any use of its legs till a considerable time after the birth, and be then set upon them with its whole weight at once, there may be some danger; but this proceeds entirely from the child's not having been accustomed to use its legs from the beginning.

Mothers of the poorer sort think they are great gainers by making their children lie or sit while they themselves work. In this they are greatly mistaken. By neglecting to give their children exercise, they are obliged to keep them a long time before they can do any thing for themselves, and to spend more on medicine than would have paid for proper care.

To take care of their children is the most useful business in which even the poor can be employed : but alas ! it is not always in their power. Poverty often obliges them to neglect their offspring, in order to procure the necessaries of life. When this is the case, it becomes the interest, as well as the duty of the public to assist them. Ten thousand times more benefit would accrue to the State, by enabling the poor to bring up their own children, than from all the hospitals * that ever can be erected for that purpose.

Whoever considers the structure of the human body

* If it were made the interest of the poor to keep their children alive, we should lose very few of them. A small premium given annually to each poor family, for every child they have alive at the year's end, would save more infant lives than if the whole revenue of the crown were expended on hospitals for this purpose. This would make the poor esteem fertility a blessing; whereas many of them think it the greatest curse that can befal them; and in place of wishing their children to live, so far does poverty get the better of natural affection, that they are often yery happy when they die. will soon be convinced of the necessity of exercise for the health of children. The body is composed of an infinite number of tubes, whose fluids cannot be pushed on without the action and pressure of the muscles. But, if the fluids remain inactive, obstructions must happen, and the humours will of course be vitiated, which cannot fail to occasion diseases. Nature has furnished both the vessels which carry the blood and lymph with numerous valves, in order that the action of every muscle might push forward their contents ; but without action, this admirable contrivance can have no effect. This part of the animal œconomy proves to a demonstration the necessity of exercise for the preservation of health.

Arguments to shew the importance of exercise might be drawn from every part of the animal œconomy ; without exercise, the circulation of the blood cannot be properly carried on, nor the different secretions duly performed ; without exercise the fluids cannot be properly prepared, nor the solids rendered strong or firm. The action of the heart, the motion of the lungs, and all the vial functions, are greatly assisted by exercise. But to point but the manner in which these effects are produced, would ead us farther into the œconomy of the human body, than most of those for whom this treatise is intended would be able to follow. We shall therefore only add, that, where exercise is neglected, none of the animal functions can be duly performed ; and when that is the case, the whole constitution must go to wreck.

A good constitution ought certainly to be our first obect in the management of children. It lays a foundation or their being useful and happy in life ; and whoever neclects it, not only fails in his duty to his offspring, but to ociety.

One very common error of parents, by which they hurt he constitutions of their children, is the sending them too oung to school. This is often done solely to prevent rouble. When the child is at school, he needs no keeper. Thus the school-master is made the nurse; and the poor hild is fixed to a seat seven or eight hours a day, which time ught to be spent in exercise and diversions. Sitting o long cannot fail to produce the worst effects upon the body; nor is the mind less injured. Early application weakens the faculties, and often fixes in the mind an aversion to books, which continues for life*.

But, suppose this were the way to make children scholars, it certainly ought not to be done at the expence of their constitutions. Our ancestors, who seldom went to school very young, were not less learned than we. But we imagine the boy's education will be quite marred, unless he be carried to school in his nurse's arms. No wonder if such hot-bed plants seldom become either scholars or men !

Not only the confinement of children in public schools, but their number, often proves hurtful. Children are much injured by being kept in crowds within doors ; their breathing not only renders the place unwholesome, but if any one of them happens to be diseased, the rest catch the infection. A single child has been often known to communicate the bloody flux, the hooping-cough, the itch, or other diseases, to almost every individual in a numerous school.

But, if fashion must prevail, and infants are to be sent to school, we would recommend it to teachers, as they value the interests of society, not to confine them too long at a time, but allow them to run about and play at such active diversions as may promote their growth, and strengthen their constitutions. Were boys, instead of being whipped for stealing an hour to run, ride, swim, or the like, encouraged to employ a proper part of their time in these manly useful exercises, it would have many excellent effects.

It would be of great service to boys, if, at a proper age, they were taught the military exercise. This would increase their strength, inspire them with courage, and when their country called for their assistance, would enable them to act in her defence, without being obliged to un-

* It is undoubtedly the duty of parents to instruct their children, at least till they are of an age proper to take some care of themselves. This would tend much to confirm the ties of parental tenderness and filial affection, of the want of which there are at present so many deplorable instances. Though few fathers have time to instruct their children, yet most mothers have ; and surely they cannot be better employed. lergo a tedious and troublesome course of instructions, at time when they are less fit to learn new motions, gesures, &c. *

An effeminate education will infallibly spoil the best natural constitution; and if boys are brought up in a more delicate manner than even girls ought to be, they ever will be men.

Nor is the common education of girls less hurtful to be constitution than that of boys. Miss is set down to er frame before she can put on her clothes; and is sught to believe, that to excel at the needle is the only ning that can entitle her to general esteem. It is unneessary here to insist upon the dangerous consequences of oliging girls to sit too much. They are pretty well nown, and are too often felt at a certain time of life. at supposing this critical period to be got over, greater angers still await them when they come to be mothers. Yomen who have been early accustomed to a sedentary e, generally run great hazard in child-bed; while those the have been used to romp about, and take sufficient ercise, are seldom in any danger.

One hardly meets with a girl who can at the same time past of early performances by the needle, and a good contution. Close and early confinement generally occasions ligestions, head-achs, pale complexions, pain of the stoach, loss of appetite, coughs, consumptions of the lungs, d deformity of body. The last of these indeed is not to wondered at, considering the awkward postures in nich girls sit at many kinds of needle-work, and the licate flexible state of their bodies in the early periods of

Would mothers, instead of having their daughters inucted in many trifling accomplishments, employ them in in work and housewifery, and allow them sufficient exise in the open air, they would both make them more ithy mothers, and more useful members of society. m no enemy to genteel accomplishments, but would

I am happy to find that the masters of academies now begin to put ractice this advice Each of them ought to keep a drill serjeant for ning the boys the military exercise. This, besides contributing to their th and vigour of body, would have many other happy effects.

have them only considered as secondary, and always dis regarded when they impair health.

Many people imagine it a great advantage for children t be early taught to earn their bread. This opinion is cer tainly right, provided they were so employed as not t hurt their health or growth; but, when these suffer, society instead of being benefited, is a real loser by their labou There are few employments, except sedentary ones, b which children can earn a livelihood; and if they be se to these too soon, it ruins their constitutions. Thus, by gain ing a few years from childhood, we generally lose twic as many in the latter period of life, and even render th person less useful while he does live.

In order to be satisfied of the truth of this observation we need only look into the great manufacturing towns where we shall find a puny degenerate race of people weak and sickly all their lives, seldom exceeding the mic dle period of life; or, if they do, being unfit for busines: they become a burden to society. Thus arts and manu factures, though they may increase the riches of a country are by no means favourable to the health of its inhabitants Good policy would therefore require, that such people a labour during life, should not be set too early to work Every person conversant in the breed of horses, or othe working animals, knows, that if they be set to hard la bour too soon, they never will turn out to advantage. This is equally true with respect to the human species.

There are nevertheless various ways of employing youn people without hurting their health. The easier parts of gardening, husbandry, or any business carried on withou doors, are most proper. These are employments which most young people are fond of, and some parts of then may always be adapted to their age, taste, and strength *

Such parents, however, as are under the necessity of employing their children within doors, ought to allow them sufficient time for active diversions without. This would both encourage them to do more work, and prevent their constitutions from being hurt.

* I have been told that in China, where the police is the best in the world, all the children are employed in the easier part of gardening and husbandry; as weeding, gathering stones off the land, and such like. Some imagine, that exercise within doors is sufficient ; but they are greatly mistaken. One hour spent in running, or any other exercise without doors, is worth ten within. When children cannot go abroad, they may indeed be exercised at home. The best method of doing this, is to make them run about in a long room, or dance. This last kind of exercise, if not carried to excess, is of excellent service to young people. It cheers the spirits, promotes perspiration, strengthens the limbs, &c. I know in eminent physician who used to say, that he made his children dance, instead of giving them physic. It were well if more people followed his example.

The COLD BATH may be considered as an aid to exercise. By it the body is braced and strengthened, the circulation and secretions promoted, and, were it conducted with prudence, many diseases, as the rickets, scrophua, &c. might thereby be prevented. The ancients, who ook every method to render children hardy and robust, vere no strangers to the use of the cold bath ; and, if we nay credit report, the practice of immersing children daiy in cold water must have been very common among our ncestors.

The greatest objection to the use of the cold bath arises om the superstitious prejudices of nurses. These are ofen so strong, that it is impossible to bring them to make proper use of it. I have known some of them who yould not dry a child's skin after bathing it, lest it should estroy the effect of the water. Others will even put loths dipt in the water upon the child, and either put it) bed, or suffer it to go about in that condition. Some beeve, that the whole virtue of the water depends upon its eing dedicated to a particular saint : while others place neir confidence in a certain number of dips, as three, ven, nine, or the like; and the world cannot persuade iem, if these do not succeed, to try it a little longer. hus, by the whims of nurses, children lose the benefit the cold bath, and the hopes of the physician from at medicine are often frustrated.

We ought not, however, entirely to set aside the cold uth, because some nurses make a wrong use of it. Every ild, when in health, should at least have its extremities

daily washed in cold water. This is a partial use of the cold bath, and is better than none. In winter this may suffice ; but, in the warm season, if a child be relaxed or seem to have a tendency to the rickets or scrophula, it whole body ought to be frequently immersed in cold wa ter. Care however must be taken not to do this when the body is hot, or the stomach full. The child should be dipt only once at a time, should be taken out immediately and have its skin well rubbed with a dry cloth.

The bad Effects of unwholesome Air upon Children.

Few things prove more destructive to children that confined or unwholesome air. This is one reason why so few of those infants, who are put into hospitals, or parish workhouses, live. These places are generally crowded with old, sickly, and infirm people; by which means the air is rendered so extremely pernicious, that it becomes a poison to infants.

Want of wholesome air is likewise destructive to many of the children born in great towns. There the poorer sort of inhabitants live in low, dirty, confined houses, to which the fresh air has hardly any access. Though grown people, who are hardy and robust, may live in such situations, yet they generally prove fatal to their offspring, few of whom arrive at maturity, and those who do are weak and deformed. As such people are not in a condition to carry their children abroad into the open air, we must lay our account with losing the greater part of them. But the rich have not this excuse. It is their business to see that their children be daily carried abroad, and that they be kept in the open air for a sufficient time. This will always succeed better if the mother goes along with them. Servants are often negligent in these matters, and allow the child to sit or lie on the damp ground, instead of leading or carrying it about. The mother surely needs air as well as her children; and how can she be better employed than in attending them ?

A very bad custom prevails, of making children sleep in small apartments, or crowding two or three beds into one chamber. Instead of this, the nursery ought always to be the largest and best aired room in the house. When children are confined in small apartments the air not only becomes unwholesome, but the heat relaxes their solids, renders them delicate, and disposes them to colds and many other disorders. Nor is the custom of wrapping them up too close in cradles less pernicious. One would think that nurses were afraid lest children should suffer by breathing free air, as many of them actually cover the child's face while asleep, and others wrap a covering over the whole cradle, by which means the child is forced to breathe the same air over and over all the time it sleeps. Cradles inleed are on many accounts hurtful to children, and it would be better if the use of them were totally laid aside *.

A child is generally laid to sleep with all its clothes on ; and if a number of others are heaped above them, it must be overheated ; by which means it cannot fail to catch cold on being taken out of the cradle, and exposed to the open air with only its usual clothing, which is too frequently the case.

Children who are kept within doors all day, and sleep Il night in warm close apartments, may, with great proriety, be compared to plants, nursed in a hot-house, intead of the open air. Though such plants may by this neans be kept alive for some time, they will never arrive t that degree of strength, vigour, and magnitude, which ney would have acquired in the open air, nor would they e able to bear it afterwards, should they be exposed to it. Children brought up in the country, who have been acustomed to open air, should not be too early sent to reat towns, where it is confined and unwholesome. This

* It is amazing how children escape suffocation, considering the manner which they are often rolled up in flannels, &c. I lately attended an fast, whom I found muffled up over head and ears in many folds of flannel, ough it was in the middle of June. I begged for a little free air to the or babe ; but though this indulgence was granted during my stay, I and it always on my return in the same situation. Death, as might be pected, soon freed the infant from all its miseries ; but it was not in my wer to free the minds of its parents from those prejudices which proved al to their child.

I was very lately called to see an infant which was said to be expiring convulsion fits. I desired the mother to strip the child, and wrap it in cose covering. It had no more convulsion fits. is frequently done with a view to forward their education, but proves very hurtful to their health. All schools and seminaries of learning ought, if possible, to be so situated as to have fresh, dry, wholesome air, and should never be too much crowded.

Without entering into a detail of the particular advantages of wholesome air, to children, or of the bad consequences which proceed from the want of it, I shall only observe, that, of several thousands of children which have been under my care, I do not remember one instance of a single child who continued healthy in a close confined situation; but have often known the most obstinate diseases cured by removing them from such a situation to an open free air.

Of Nurses.

It is not here intended to lay down rules for the choice of nurses. This would be wasting time. Common sense will direct every one to chuse a woman who is healthy, and has plenty of milk*. If she be at the same time cleanly, careful, and good-natured, she can hardly fail to make a proper nurse. After all, however, the only certain proof of a good nurse, is a healthy child upon her breast. But, as the misconduct of nurses often proves fatal to children, it will be of importance to point out a few of their most baneful errors, in order to rouse the attention of parents, and to make them look more strictly into the conduct of those to whom they commit the care of their infant offspring.

Though it admits of some exceptions, yet we may lay it down as a general rule, That every woman who nurses for hire should be carefully looked after, otherwise she will not do her duty. For this reason parents ought always to have their children nursed under their own eye, if possible; and where this cannot be done, they should be extremely circumspect in the choice of those persons to whom they intrust them. It is folly to imagine that any woman,

* I have often known people so imposed upon, as to give an infant to a nurse to be suckled who had not one drop of milk in her breast. who abandons her own child to suckle another for the sake of gain, should feel all the affection of a parent towards per nursling; yet so necessary are these affections in a nurse, that, but for them, the human race would soon be xtinct.

One of the most common faults of those who nurse for ire, is to dose the children with stupifactives, or such hings as lull them asleep. An indolent nurse, who does ot give a child sufficient exercise in the open air to make sleep, and does not chuse to be disturbed by it in the ight, will seldom fail to procure for it a dose of laudanm, diacodium, saffron, or what answers the same purose, a dose of spirits, or other strong liquors. These, hough they be certain poison to infants, are every day adinistered by many who bear the character of very good arses *.

A nurse who has not milk enough is apt to imagine nat this defect may be supplied by giving the child wines, ordial waters, or other strong liquors. This is an egreous mistake. The only thing that has any chance to pply the place of the nurse's milk, must be somewhat arly of the same quality, as cow's milk, ass's milk, or ef tea, with good bread. It never can be done by the lp of strong liquors. These, instead of nourishing an init, never fail to produce the contrary effect.

Children are often hurt by nurses suffering them to cry og and vehemently. This strains their tender bodies, d frequently occasions ruptures, inflammations of the oat, lungs, &c. A child never continues to cry long thout some cause, which might always be discovered by oper attention; and the nurse who can hear an infant till it has almost spent itself, without endeavouring to ase it, must be cruel indeed, and is unworthy to be insted with the care of an human creature.

Nurses who deal much in medicine are always to be bected. They trust to it, and neglect their duty. I er knew a good nurse who had her Godfrey's cordials, fy's elixirs, &c. at hand. Such generally imagine,

If a mother, on visiting her child at nurse, find it always asleep, I d advise her to remove it immediately; otherwise it will soon sleep its

that a dose of medicine will make up for all defects in food air, exercise, and cleanliness. By errors of this kind, will venture to say, that one half of the children who di annually in London lose their lives.

Allowing children to continue long wet, is another very pernicious custom of indolent nurses. This is not on ly disagreeable, but it gauls and frets the infant, and b relaxing the solids, occasions scrophulas, rickets, and other diseases. A dirty nurse is always to be suspected.

Nature often attempts to free the bodies of children from bad humours, by throwing them upon the skin: by this means fevers and other diseases are prevented. Nurse are apt to mistake such critical eruptions for an itch, of some other infectious disorder. Accordingly they tak every method to drive them in. In this way many child dren lose their lives; and no wonder, as Nature is oppose ed in the very method she takes to relieve them. It ough to be a rule, which every nurse should observe, never t stop any eruption without proper advice, or being well as sured that it is not of a critical nature. At any rate, it never to be done without previous evacuations.

Loose stools is another method by which Nature ofte prevents or carries off the diseases of infants. If thes proceed too far, no doubt they ought to be checked ; bu this is never to be done without the greatest caution. Nur ses, upon the first appearance of loose stools, fly to the us of astringents, or such things as bind the body. Henc inflammatory fevers, and other fatal diseases, are occasion ed. A dose of rhubarb, a gentle vomit, or some othe evacuation, should always precede the use of astringen medicines.

One of the greatest faults of nurses is, concealing the diseases of children from their parents. This they are extremely ready to do, especially when the disease is the effect of their own negligence. Many instances might be given of persons who have been rendered lame for life by a fall from their nurse's arms, which she, through fear, concealed till the misfortune was past cure. Every paren who intrusts a nurse with the care of a child, ought to give her the strictest charge not to conceal the most triffing disorder or misfortune that may befal it.

We can see no reason why a nurse, who conceals any nisfortune which happens to a child under her care, till r loses its life or limbs, should not be punished. A few xamples of this would save the lives of many infants; ut as there is little reason to expect that it ever will be he case, we would earnestly recommend it to all parents blook carefully after their children, and not to trust so aluable a treasure entirely into the hands of an hireling. No person ought to imagine these things unworthy of is attention. On the proper management of children epend not only their health and usefulness in life, but kewise the safety and prosperity of the state to which ey belong. Effeminacy ever will prove the ruin of any ate where it prevails; and, when its foundations are laid infancy, it can never afterwards be wholly eradicat-1. Parents who love their offspring, and wish well to eir country, ought therefore, in the management of eir children, to avoid every thing that may have a tenncy to make them weak or effeminate, and to take every sthod in their power to render their constitutions strong d hardy.

> By arts like these Laconia nurs'd of old her hardy sons; And Rome's unconquer'd legions urg'd their way, Unhurt, thro' every toil in every clime *.

CHAP. II.

THE LABORIOUS, THE SEDENTARY, AND THE STUDIOUS.

"HAT men are exposed to particular diseases from the occupations which they follow, is a fact well known; to remedy this evil, is a matter of some difficulty. Most ble are under the necessity of following those employts to which they have been bred, whether they be faable to health or not. For this reason, instead of ighing, in a general way, as some authors have done,

* Armstrong.

56 OF THE LABORIOUS, THE SEDENTARY,

against those occupations which are hurtful to health, we shall endeavour to point out the circumstances in each o them from which the danger chiefly arises, and to propose the most rational methods of preventing it.

Chymists, founders, forgers, glass-makers, and severa other artists, are hurt by the unwholesome air which the are obliged to breathe. This air is not only loaded with the noxious exhalations arising from metals and minerals but is so charged with phlogiston as to be rendered unfifor expanding the lungs sufficiently, and answering the other important purposes of respiration. Hence proceed asthmas, coughs, and consumptions of the lungs, so incident to persons who follow these employments.

To prevent such consequences, as far as possible, the places where these occupations are carried on, ought to be constructed in such a manner as to discharge the smoke and other exhalations, and admit a free current of fress air. Such artists ought never to continue too long a work; and when they give over, they should suffer them selves to cool gradually, and put on their clothes before they go into the open air. They ought never to drin large quantities of cold, weak, or watery liquors, while their bodies are hot, nor to indulge in raw fruits, sallads or any thing that is cold on the stomach *.

Miners, and all who work under ground, are likewis hurt by unwholesome air. The air, by its stagnation is deep mines, not only loses its proper spring and other qualities necessary for respiration, but is often loaded with such noxious exhalations as to become a most deadl poison.

The two kinds of air which prove most destructive to miners, are what they call the *fire damp*, and the *chok*, *damp*. In both cases the air becomes a poison, by it being loaded with phlogiston. The danger from the for mer may be obviated by making it explode before it accumulates in too great quantities; and the latter may be ge nerally carried off by promoting a free circulation of air is the mine.

Miners are not only hurt by unwholesome air, but like

* When persons heated with labour have drunk cold liquor, they ough to continue at work for some time after. rise by the particles of metal which adhere to their skin, lothes, &c. These are absorbed, or taken up into the ody, and occasion palsies, vertigoes, and other nervous ffections, which often prove fatal. Fallopius observes, nat those who work in mines of mercury seldom live aove three or four years. Lead, and several other metals, re likewise very pernicious to the health.

Miners ought never to go to work fasting, nor to connue too long at work. Their food ought to be nourishg, and their liquor generous; nothing more certainly urts them than living too low. They should by all means roid costiveness. This may either be done by chewing little rhubarb, or taking a sufficient quantity of sallad 1. Oil not only opens the body, but sheaths and defends the intestines from the ill effects of the metals. All who ork in mines or metals ought to wash carefully, and to mange their clothes as soon as they give over working. tothing would tend more to preserve the health of such ople than a strict, and almost religious regard to cleanlitics.

Plumbers, painters, gilders, smelters, makers of white dd, and many others who work in metals, are liable to same diseases as miners, and ought to observe the same rections for avoiding them.

Tallow-chandlers, boilers of oil, and all who work in trid animal substances, are likewise liable to suffer from unwholesome smells or effluvia of these bodies. They ght to pay the same regard to cleanliness as miners ; I when they are affected with nausea, sickness, or indition, we would advise them to take a vomit or a gentle ge. Such substances ought always to be manufactured soon as possible. When long kept, they not only bene unwholesome to those who manufacture them, but twise to people who live in the neighbourhood.

t would greatly exceed the limits of this part of our ject, to specify the disease peculiar to persons of every upation; we shall therefore consider mankind under general classes of *Laborious*, *Sedentary*, and *Studious*.

The Laborious.

THOUGH those who follow laborious employments are general the most healthy of mankind, yet the nature their occupations, and the places where they are carri on, expose them more particularly to some diseases. Hu bandmen, for example, are exposed to all the vicissitud of the weather, which, in this country, are often ve great and sudden, and occasion colds, coughs, quinsic rheumatisms, fevers, and other acute disorders. Th are likewise forced to work hard, and often to carry bu dens above their strength, which, by overstraining t vessels, occasion asthmas, ruptures, pleurisies, &c.

Those who labour without doors are often afflicted wi intermitting fevers or agues, occasioned by the freque vicissitudes of heat and cold, poor living, bad water, s ting or lying on the damp ground, evening dews, nig air, &c. to which they are frequently exposed.

Such as bear heavy burdens, as porters, labourers, & are obliged to draw in the air with much greater force, an also to keep their lungs distended with more violence the is necessary for common respiration: by this means to tender vessels of the lungs are overstretched, and offeburst, insomuch that a spitting of blood or fever ensue Hippocratus mentions an instance to this purpose, of man, who, upon a wager, carried an ass; but was soo after seized with a fever, a vomiting of blood, and a rup ture.

Carrying heavy burdens is generally the effect of me laziness, which prompts people to do at once what shou be done at twice. Sometimes it proceeds from vanity emulation. Hence it is, that the strongest men are mo commonly hurt by heavy burdens, hard labour, or feats activity. It is rare to find one who boasts of his strengt without a rupture, a spitting of blood, or some other da ease, which he reaps as the fruit of his folly. One woul imagine, the daily instances we have, of the fatal effec of carrying great weights, running, wrestling, and the like would be sufficient to prevent such practices.

There are indeed some employments which necessaril require a great exertion of strength, as porters, black niths, carpenters, &c. None ought to follow these but en of strong body; and they should never exert their ength to the utmost, nor work too long. When the uscles are violently strained, frequent rest is necessary, order that they may recover their tone; without this, e strength and constitution, will soon be worn out, and premature old age be induced.

The erisipelas, or St Anthony's fire, is a disease veryo cident to the laborious. It is occasioned by whatever ves a sudden check to the perspiration, as drinking cold ter when the body is warm, wet feet, keeping on wet thes, sitting or lying on the damp ground, &c. It is possible for those who labour without doors always to ard against these inconveniences; but it is known from perience, that their ill consequences might often be preited by proper care.

The iliac passion, the cholic, and other complaints of bowels, are often occasioned by the same causes as erisipelas; but they may likewise proceed from flatut and indigestible food. Labourers generally eat unfernted bread, made of pease, beans, rye, and other windy redients. They also devour great quantities of unripe ts, baked, stewed, or raw, with various kinds of roots herbs, upon which they often drink sour milk, stale Il beer, or the like. Such a mixture cannot fail to fill bowels with wind, and occasion diseases of those parts. nflammations, whitloes, and other diseases of the exnities are likewise common among those who labour nout doors. These are often attributed to venom, or e kind of poison; but they generally proceed either a sudden heat after cold, or the contrary. When labourmilk-maids, &c. come from the field, cold or wet, they to the fire, and often plunge their hands in warm waby which means the blood and other humours in those s are suddenly expanded, and, the vessels not yielding tickly, a strangulation happens, and an inflammation mortification ensues.

hen such persons come home cold, they ought to at a distance from the fire for some time, to wash hands in cold water, and to rub them well with a cloth. It sometimes happens, that people are so be-

H 2

60 OF THE LABORIOUS, THE SEDENTARY,

numbed with cold, as to be quite deprived of the use of their limbs. In this case, the only remedy is to rub the parts affected with snow, or where it cannot be had, with cold water. If they be held near the fire, or plunged into warm water, a mortification will generally ensue.

Labourers in the hot season are apt to lie down and sleep in the sun. This practice is so dangerous, that they often wake in a burning fever. These ardent fevers which prove so fatal about the end of summer and beginning of autumn, are frequently occasioned by this means When labourers leave off work, which they ought always to do during the heat of the day, they should go home, or at least, get under some cover, where they may repose themselves in safety.

Many people follow their employments in the fields from morning till night, without eating any thing. This can not fail to hurt their health. However homely their fare be, they ought to have it at regular times; and the harder they work, the more frequently they should eat. 1 the humours be not frequently replenished with fresh nourishment, they soon become putrid, and produce fevers of the very worst kind.

Many peasants are extremely careless with respect to what they eat or drink, and often, through mere indolence, use unwholesome food, when they might for the same expence have that which is wholesome. In some parts of Britain, the peasants are too careless even to take the trouble of dressing their own victuals. Such people would live upon one meal a day in indolence, rather than labour, though it were to procure them the greatest affluence.

Fevers of a very bad kind are often occasioned among labourers by poor living. When the body is not sufficiently nourished, the humours become vitiated, and the solids weak; from whence the most fatal consequences ensue. *Poor living* is likewise productive of many of those cutaneous diseases so frequent among the lower class of people. It is remarkable that cattle, when pinched in their food, are generally affected with diseases of the skin, which seldom fail to disappear, when they are put upon a good pasture. This shews how much a good state of the hur mours depends upon a sufficient quantity of proper nourishment.

Poverty not only occasions, but aggravates, many of the diseases of the laborious. Few of them have much foresight; and if they had, it is seldom in their power to save any thing. They are glad to make a shift to live from day to day; and, when any disease overtakes them, they are miserable indeed. Here the godlike virtue of charity ought always to exert itself. To relieve the industrious poor in distress, is surely the most exalted act of religion and humanity. They alone, who are witnesses of those scenes of calamity, can form a notion of what numbers perish in diseases, for want of proper assistance, and even for want of the necessaries of life.

Labourers are often hurt by a foolish emulation, which prompts them to vie with one another, till they overheat themselves to such a degree as to occasion a fever, or even to drop down dead. Such as wantonly throw away their vives in this manner, deserves to be looked upon in no beter light than self-murderers.

The office of a soldier, in time of war, may be ranked mong the laborious employments. Soldiers suffer many ardships from the inclemency of seasons, long marches, ad provisions, hunger, watching, unwholesome climates, ad water, &c. These occasion fevers, fluxes, rheumasms, and other fatal diseases, which generally do greater xecution than the sword, especially when campaigns are ontinued too late in the season. A few weeks of cold ainy weather will often prove more fatal than an engagenent.

Those who have the command of armies should take are that their soldiers be well clothed and well fed. hey ought also to finish their campaigns in due season, and to provide their men with dry and well aired winter marters. These rules, taking care, at the same time, to eep the sick at a proper distance from those in health, ould tend greatly to preserve the lives of the soldiery *.

* It is indeed to be regretted, that soldiers suffer not less from indoice and intemperance in time of peace, than from hardships in time of ir. If men are idle they will be vicious. It would therefore be of eat importance, could a scheme be formed for rendering the military times of peace, both more healthy and more useful. These desirable

62 OF THE LABORIOUS, THE SEDENTARY,

Sailors may also be numbered among the laborious. They undergo great hardships from change of climate, the violence of weather, hard labour, bad provisions, &c. Sailors are of so great importance both to the trade and safety of this kingdom, that too much pains can never be bestowed in pointing out the means of preserving their lives.

One great source of the diseases of sea-faring people is excess. When they get on shore, after having been long at sea, without regard to the climate, or their own constitutions, they plunge headlong into all manner of riot, and often persist till a fever puts an end to their lives. Thus intemperance, and not the climate, is often the cause why so many of our brave sailors die on foreign coasts. Such people ought not to live too low; but they will find moderation the best defence against fevers, and many other maladies.

Sailors, when on duty, cannot avoid sometimes getting wet. When this happens, they should change their clothes as soon as they are relieved, and take every method to restore the perspiration. They should not, in this case, make too free with spirits or other strong liquors, but should rather drink them diluted with warm water, and go immediately to bed, where a sound sleep and a gentle sweat would set all to rights.

But the health of sailors suffers most from unwholesome food. The constant use of salted provisions vitiates their humours, and occasions the scurvy, and other obstinate

objects might, in our opinion, be obtained, by employing them for some hours every day, and advancing their pay accordingly. By this means, idleness, the mother of vice, might be prevented, the price of labour lowered, public works, as harbours, canals, turnpike roads, &c. might be made without hurting manufactures; and soldiers might be enabled to marry, and bring up children. A scheme of this kind might easily be conducted, so as not to depress the martial spirit, provided the men were only to work four or five hours every day, and always to work without doors : no soldier should be suffered to work too long, or to follow any sedentary employment. Sedentary employments render men weak and effeminate, quite unfit for the hardships of war : whereas, working for a few hours every day without doors would inure them to the weather, brace their nerves, and increase their strength and courage. maladies. It is no easy matter to prevent this disease in long voyages; yet we cannot help thinking, that much might be done towards effecting so desirable an end, were due pains bestowed for that purpose. For example, various roots, greens, and fruits, might be kept a long time at sea, as onions, potatoes, cabbages, lemons, oranges, tamarinds, apples, &c. When fruits cannot be kept, the juices of them, either fresh or fermented, may. With these all the drink, and even the food of the ship's company, ought to be acidulated in long voyages.

Stale bread and beer likewise contribute to vitiate the numours. Flour will keep for a long time on board, of which fresh bread might frequently be made. Malt too night be kept, and infused with boiling water at any time. This liquor, when drunk even in form of wort, is very wholesome, and is found to be an antidote against the curvy. Small wines and cyder might likewise be plentiially laid in; and should they turn sour, they would still be useful as vinegar. Vinegar is a great antidote against liseases, and should be used by all travellers, especially t sea. It may either be mixed with the water they drink, tr taken in their food.

Such animals as can be kept alive, ought likewise to be arried on board, as hens, ducks, pigs, &c. Fresh broths hade of portable soup, and puddings made of peas, or ther vegetables, ought to be used plentifully. Many ther things will readily occur to people conversant in nese matters, which would tend to preserve the health of hat brave and useful set of men *.

We have reason to believe, if due attention were paid the diet, air, clothing, and above all things, to the eanliness of sea-faring people, they would be the most

* Our countryman, the celebrated Captain COOK, has shewn how far, proper care and attention, the diseases formerly so fatal to seamen may prevented. In a voyage of three years and eighteen days, during which was exposed to every climate, from the 52 north to the 71 of south itude, of one hundred and eighteen men composing the ship's company, lost only one, who died of a *phthicis pulmonalis*. The principal means used were, to preserve a strict attention to cleanliness, to procure abunnce of vegitables and fresh provisions, especially good water, and to al-

64 OF THE LABORIOUS, THE SEDENTARY,

healthy set of men in the world; but when these are neglected, the very reverse will happen.

The best medical antidote that we can recommend to sailors, or soldiers, on foreign coasts, especially where dampness prevails, is the Peruvian bark. This will often prevent fevers, and other fatal diseases. About a drachm of it may be chewed every day; or if this should prove disagreeable, an ounce of bark, with half an ounce of orange peel, and two drachms of snake-root coarsely powdered, may be infused for two or three days in an English quart of brandy, and half a wine-glass of it taken twice or thrice a-day, when the stomach is empty. This has been found to be an excellent antidote against fluxes, putrid, intermitting, and other fevers, in unhealthy climates. It is not material in what form this medicine is taken. It may either be infused in water, wine, or spirits, as recommended above, or made into an electuary with syrup of lemons, oranges, or the like ...

The Sedentary.

THOUGH nothing can be more contrary to the nature of man than a sedentary life, yet this class comprehends by far the greater part of the species. Almost the whole female world, and in manufacturing countries, the major part of the males may be reckoned sedentary *.

Agriculture, the first and most healthful of all employments, is now followed by few who are able to carry on any other business. But those who imagine that the culture of the earth is not sufficient to employ all its inhabitants are greatly mistaken. An ancient Roman, we are told, could maintain his family from the produce of one acre of ground. So might a modern Briton, if he would be contented to live like a Roman. This shews what an immense increase of inhabitants Britain might admit

* The appellation of sedentary has generally been given only to the studious; we can see no reason, however, for restricting it to them alone. Many artificers may with as much propriety, be denominated sedentary as the studious, with this particular disadvantage, that they are often obliged to sit in very awkward postures, which the studious need not do, unless they please. f, and all of them live by the culture of the ground. Agriculture is the great source of domestic riches. Where it is neglected, whatever wealth may be imported rom abroad, poverty and misery will abound at home. uch is, and ever will be, the fluctuating state of trade nd manufactures, that thousands of people may be full f employment to day, and in beggary to-morrow. This an never happen to those who cultivate the ground. 'hey can eat the fruit of their labour, and can always by idustry obtain at least the necessaries of life.

Though sedantary employments are necessary, yet here seems to be no reason why any person should be conned for life to these alone. Were such employments inrmixed with the more active and laborious, they would ever do hurt. It is constant confinement that ruins the ealth. A man may not be hurt by sitting five or six ours a-day; but if he is obliged to sit ten or twelve, he ill soon become diseased.

But it is not want of exercise alone which hurts sentary people; they likewise suffer from the confined which they breathe. It is very common to see ten a dozen taylors, * or staymakers, for example, crowded to one small apartment, where there is hardly room for e person to breathe freely. In this situation they genely continue for many hours at a time, often with the dition of several candles, which tend likewise to waste e air, and render it less fit for respiration. Air that is eathed repeatedly becomes unfit for expanding the less. This is one cause of the phthisical coughs, and er complaints of the breast, so incident so sedentary ficers.

Even the perspiration from a great number of pers pent up together, renders the air unwholesome. e danger from this quarter will be greatly increased,

A person of observation in that line of life told me, that most taydie of consumptions; which he attributed chiefly to the unfavourpostures in which they sit, and the unwholesomeness of those places their business is carried on. If more attention was not paid to t than to the preservation of human lives, this evil might be easily died; but while masters only mind their own interest, nothing will one for the safety of their servants.

66 OF THE LABORIOUS, THE SEDENTARY.

if any one of them happens to have bad lungs, or te be otherwise diseased. Those who sit near him, being forced to breathe the same air, can hardly fail to be infected. It would be a rare thing, however, to find a dozen of sedentary people all in good health. The danger of crowding them together must therefore be evident to every one.

Many of those who follow sedentary employments are constantly in a bending posture, as shoemakers, taylors, cutlers, &c. Such a situation is extremely hurtful. A bending posture obstructs all the vital motions, and of course must destroy the health. Accordingly we find such artificers generally complaining of indigestions. flatulencies, head-achs, pains of the breast, &c.

The aliment in sedentary people, instead of being pushed forwards by an erect posture, and the action of the muscles, is in a manner confined in the bowels. Hence indigestions, costiveness, wind, and other hypochondriacal affections, are the constant companions of the sedentary. Indeed none of the excretions can be duly performed where exercise is wanting; and when the matter which ought to be discharged in this way is retained too long in the body, it must have bad effects, as it is again taken up into the mass of humours.

A bending posture is likewise hurtful to the lungs. When this organ is compressed, the air cannot have free access into all its parts, so as to expand them properly. Hence tubercles, adhesions, &c. are formed, which often end in consumptions. Besides, the proper action of the lungs being absolutely necessary for making good blood, when that organ fails, the humours soon become universally depraved, and the whole constitution goes to wreck.

Sedentary artificers are not only hurt by pressure on the bowels, but also on the inferior extremities, which obstructs the circulation in these parts, and renders them weak and feeble. Thus taylors, shoemakers. &c. frequently lose the use of their legs altogether; besides, the blood and humours are, by stagnation, vitiated, and the perspiration is obstructed: from whence proceed the scab, ulcerous sores, foul blotches, and other cutaneous diseases, so common among sedentary artificers. A bad figure of body is a very common consequence of close application to sedentary employments. The spine, or example, by being continually bent, puts on a crooked shape, and generally remains so ever after. But a bad figure of body has already been observed to be hurtful to health, as the vital functions are thereby impeded.

A sedentary life seldom fails to occasion an universal relaxation of the solids. This is the great source from whence most of the diseases of sedentary people flow. The crophula, consumption, hysterics, and nervous diseases, now so common, were very little known in this country pefore sedentary artificers became so numerous ; and they are very little known still among such of our people as folow active employments without doors, though in great owns at least two-thirds of the inhabitants are afflicted with them.

It is very difficult to remedy those evils, because many who have been accustomed to a sedentary life, like rickety children, lose all inclination for exercise ; we shall, howver, throw out a few hints with respect to the most likely means for preserving the health of this useful set of beople, which some of them, we hope, will be wise enough to take.

It has been already observed, that sedentary artificers re often hurt by their bending posture. They ought herefore to stand or sit as erect as the nature of their emloyments will permit. They should likewise change their osture frequently, and should never sit too long at a time, ut leave off work, and walk, ride, run, or do any thing hat will promote the vital functions.

Sedentary artificers are generally allowed too little time or exercise; yet, short as it is, they seldom employ it roperly. A journeyman taylor or weaver, for example, istead of walking abroad for exercise and fresh air, at his ours of leisure, chuses often to spend them in a publicouse, or in playing at some sedentary game, by which he enerally loses both his time and money.

The awkward postures in which many sedentary articers work, seem rather to be the effect of custom than ecessity. For example, a table might surely be contrivl for ten or a dozen taylors to sit round, with liberty for their legs either to hang down, or rest upon a footboard, as they should chuse. A place might likewise be cut out for each person, in such a manner that he might sit as conveniently for working as in the present mode of sitting crosslegged.

All sedentary artificers ought to pay the most religious regard to cleanliness. Both their situation and occupations render this highly necessary. Nothing would contribute more to preserve their health, than a strict attention to it; and such of them as neglect it, not only run the hazard of losing health, but of becoming a nuisance to their neighbours.

Sedentary people ought to avoid food that is windy, or hard of digestion, and should pay the strictest regard to sobriety. A person who works hard without doors will soon throw off a debauch; but one who sits has by no means an equal chance. Hence it often happens, that sedentary people are seized with fevers after hard drinking. When such persons feel their spirits low, instead of running to the tavern for relief, they should ride, or walk in the fields. This would remove the complaint more effectually than strong liquor, and would never hurt the constitution.

Instead of multiplying rules for preserving the health of the sedentary, we shall recommend to them the following general plan, viz. That every person who follows a sedentary employment should cultivate a piece of ground with his own hands. This he might dig, plant, sow, and weed at leisure hours, so as to make it both an exercise and amusement, while it produced many of the necessaries of life. After working an hour in a garden, a man will return with more keenness to his employment within doors, than if he had been all the while idle.

Labouring the ground is every way conducive to health. It not only gives exercise to every part of the body, but the very smell of the earth and fresh herbs revives and cheers the spirits, whilst the perpetual prospect of something coming to maturity, delights and entertains the mind. We are so formed as to be always pleased with somewhat in prospect, however distant or however trivial. Hence the happiness that most men feel in planting, sowng, building. &c. Those seem to have been the chief emoloyments of the more early ages : and, when kings and onquerors cultivated the ground, there is reason to believe hat they knew as well wherein true happiness consisted as we do.

It may seem romantic to recommend gardening to maufacturers in great towns; but observation proves that he plan is very practicable. In the town of Sheffield, in orkshire, where the great iron manufacture is carried on, nere is hardly a journeyman cutler who does not possess piece of ground, which he cultivates as a garden. This actice has many salutary effects. It not only induces ese people to take exercise without doors, but also to eat any greens, roots, &c. of their own growth, which they ould never think of purchasing. There can be no reason hy manufacturers in any other town in Great Britain ould not follow the same plan. It is indeed to be reretted, that in such a place as London a plan of this kind not practicable; yet even there sedentary artificers may d opportunities of taking air and exercise, if they chuse embrace them.

Mechanics are too much inclined to crowd into great vns. The situation may have some advantages; but it s likewise many disadvantages. All mechanics who live the country have it in their power to cultivate a piece of bund; which indeed most of them do. This not only es them exercise, but enables them to live more comtably. So far at least my observation extends, mechas who live in the country are far more happy than those great towns. They enjoy better health, live in greater uence, and seldom fail to rear a healthy and numerous pring.

in a word, exercise without doors, in one shape or aner, is absolutely necessary to health. Those who neit it, though they may for a while drag out life, can ily be said to enjoy it. Weak and effeminate, they uish for a few years, and soon drop into an untimely e.

The Studious.

INTENSE thinking is so destructive to health, that few in stances can be produced of studious persons who are stron; and healthy. Hard study always implies a sedentary life and when intense thinking is joined to the want of exercise the consequences must be bad. We have frequently know even a few months of close application to study ruin a excellent constitution, by inducing a train of nervous com plaints which could never be removed. Man is evidentl not formed for continual thought more than for perpetuz action, and would be as soon worn out by the one as b the other.

So great is the power of the mind over the body, that by its influence, the whole vital motions may be accele rated or retarded, to almost any degree. Thus cheerful ness and mirth quicken the circulation, and promote all th secretions; whereas sadness and profound thought neve fail to retard them. Hence it would appear, that even degree of thoughtlessness is necessary to health. Indeed the perpetual thicker seldom enjoys either health or spirits while the person who can hardly be said to think at al generally enjoys both.

Perpetual thinkers, as they are called, seldom think long In a few years they generally become quite stupid, and exhibit a melancholy proof how readily the greatest blessing may be abused. Thinking, like every thing else, when car ried to extreme, becomes a vice : nor can any thing affor a greater proof of wisdom, than for a man frequently an seasonably to unbend his mind. This may generally b done by mixing in cheerful company, active diversions of the like.

Instead of attempting to investigate the nature of the connection which subsists between the mind and body, o to inquire into the manner in which they mutually affect each other, we shall only mention those diseases to which the learned are more peculiarly liable, and endeavour to point out the means of avoiding them.

Studious persons are very subject to the gout. In painful disease in a great measure proceeds from indigestion and an obstructed perspiration. It is impossible that the

AND THE STUDIOUS.

han who sits from morning till night should either digest is food, or have any of the secretions in due quantity. but when that matter which should be thrown off by the kin, is retained in the body, and the humours are not uly prepared, diseases must ensue.

The studious are likewise very liable to the stone and ravel. Exercise greatly promotes both the secretions and discharge of urine; consequently a sedentary life must ave the contrary effect. Any one may be satisfied of this y observing, that he passes much more urine by day an in the night, and also when he walks or rides, than hen he sits.

The circulation in the liver being slow, obstructions in at organ can hardly fail to be the consequence of inactity. Hence sedentary people are frequently afflicted ith schirrous livers. But the proper secretion and disarge of the bile is so necessary a part of the animal œcomy, that where these are not duly performed, the health ist soon be impaired. Jaundice, indigestion, loss of aptite, and a wasting of the whole body, seldom fail to the consequences of a vitiated state of the liver, or obuctions of the bile.

Few diseases prove more fatal to the studious than connptions of the lungs. It has already been observed, t this organ cannot be duly expanded in those who not take proper exercise; and where that is the case, tructions and adhesions will ensue. Not only want of rcise, but the posture in which studious persons generalsit, is very hurtful to the lungs. Those who read or te much are ready to contract a habit of bending fords, and often press with their breast upon a table or ch. This posture cannot fail to hurt the lungs.

The functions of the heart may likewise by this means njured. I remember to have seen a man opened, whose cardium adhered to the breast-bone in such a manner o obstruct the motion of the heart, and occasion his h. The only probable cause that could be assigned for singular symptom was, that the man, whose business writing, used constantly to sit in a bending posture, his breast pressing upon the edge of a plain table. o person can enjoy health who does not properly div gest his food. But intense thinking and inactivity neve fail to weaken the powers of digestion. Hence the hu mours become crude and vitiated, the solids weak and re laxed, and the whole constitution goes to ruin,

Long and intense thinking often occasions grievou head-achs, which bring on virtigoes, apoplexies, palsies and other fatal disorders. The best way to prevent thes is, never to study too long at one time, and to keep th body regular, either by proper food, or taking frequently a little of some opening medicine.

Those who read or write much are often afflicted wit sore eyes. Studying by candle light is peculiarly hurth to the sight. This ought to be practised as seldom as possible. When it is unavoidable, the eyes should be shad ed, and the head should not be held too low. When th eyes are weak or painful, they should be bathed ever night and morning in cold water, to which a little brand may be added.

It has already been observed, that the excretions ar very defective in the studious. The dropsy is often occa sioned by the retention of those humours which ought to be carried off in this way. Any person may observe, tha sitting makes his legs swell, and that this goes off by ex ercise; which clearly points out the method of prevention

Fevers, especially of the nervous kind, are often the effect of study. Nothing effects the nerves so much as intense thought. It in a manner unhinges the whole human frame, and not only hurts the whole vital motions but disorders the mind itself. Hence a delirium, melancholy, and even madness, are often the effect of close application to study. In fine, there is no disease which can proceed either from a bad state of the humours, a defect of the usual secretions, or a debility of the nervous system, which may not be induced by intense thinking.

But the most afflicting of all the diseases which attack the studious is the hypochondriac. This disease seldom fails to be the companion of deep thought. It may rather be called a complication of maladies than a single one. To what a wretched condition are the best of men often reduced by it! Their strength and appetite fail; a perpetual gloom hangs over their minds; they live in the constant

78

read of death, and are continually in search of relief om medicine, where, alas ! it is not to be found. Those ho labour under this disorder, though they are often ade the subject of ridicule, justly claim our highest symthy and compassion.

Hardly any thing can be more preposterous than for a rson to make study his sole business. A mere student seldom an useful member of society. He often neglects e most important duties of life, in order to pursue stues of a very trifling nature. Indeed it rarely happens, at any useful invention is the effect of mere study. The ther men dive into profound researches, they generaldeviate the more from common sense, and too often e sight of it altogether. Profound speculations, inad of making men wiser or better, generally render m absolute sceptics, and overwhelm them with doubt i uncertainty. All that is necessary for man to know order to be happy, is easily obtained ; and the rest, like forbidden fruit, serves only to increase his misery.

otudious persons, in order to relieve their minds, must only discontinue to read and write, but engage in some oloyment or diversion, that will so far occupy the right as to make them forget the business of the closet. In the set of the or walk are so far from relaxing the mind, they rather encourage thought. Nothing can divert mind, when it gets into a train of serious thinking, but nation to subjects of a more trivial nature. These prove and of play to the mind, and consequently relieve it. earned men often contract a contempt for what they triffing compared to the mind of the set of t

trifling company. They are ashamed to be seen with but philosophers. This however is no proof of their g philosophers themselves. No man deserves that e who is ashamed to unbend his mind, by associating the cheerful and the gay. Even the society of chilwill relieve the mind, and expel the gloom which aption to study is too apt to occasion.

should make choice of a large and well aired place udy. This would not only prevent the bad effects attend confined air, but would cheer the spirits, and a most happy influence both on the body and mind. If is said of Euripides the tragedian, that he used to retire to dark cave to compose his tragedies, and of Demosthene the Grecian orator, that he chose a place for study whe nothing could be heard or seen. With all deference to such venerable names, we cannot help condemning the taste. A man may surely think to as good purpose in a elegant apartment as in a cave ; and may have as happ conceptions where the all-cheering rays of the sun rende the air wholesome, as in places where they never enter.

Those who read or write much should be very attentive to their posture. They ought to sit and stand by turn always keeping as nearly in an erect posture as possible Those who dictate, may do it walking. It has an excer lent effect frequently to read or speak aloud. This ne only exercises the lungs, but almost the whole body Hence studious people are greatly benefited by deliver in discourses in public. Public speakers, indeed, some times hurt themselves by overacting their part; but the is their own fault. The martyr to mere vociferation mere rits not our sympathy.

The morning has, by all medical writers, been reckone the best time for study. It is so. But it is also the most preper season for exercise, while the stomach is empty, and the spirits refreshed with sleep. Studious people should therefor sometimes spend the morning in walking, riding, or son manly diversions without doors. This would make them n turn to study with greater alacrity, and would be of more sevice than twice the time after their spirits are worn out wit fatigue. It is not sufficient to take diversion only whe we can think no longer. Every studious person shoul make it a part of his business, and should let nothing in terrupt his hours of recreation more than those of study.

Music has a very happy effect in relieving the min when fatigued with study. It would be well if every studious person were so far acquainted with that science as a amuse himself after severe thought, by playing such an as have a tendency to raise the spirits, and inspire cheef fulness and good humour.

It is a reproach to Learning, that any of her votarie to relieve the mind after study, should betake themselve to the use of strong liquors. This indeed is a remedy

at it is a desperate one, and always proves destructive. Yould such persons, when their spirits are low, get on prseback, and ride ten or a dozen miles, they would find a more effectual remedy than any cordial medicine in e apothecary's shop, or all the strong liquors in the orld.

The following is my plan, and I cannot recommend a tter to others. When my mind is fatigued with study, other serious business, I mount my horse, and ride ten twelve miles into the country, where I spend a day, and metimes two, with a cheerful friend ; after which I never I to return to town with new vigour, and to pursue my idies or business with fresh alacrity.

It is much to be regretted, that learned men, while in alth, pay so little regard to these things! There is not y thing more common than to see a miserable object overn with nervous diseases, bathing, walking, riding, and a word, doing every thing for health after it is gone; t, if any one had recommended these things to him by y of prevention, the advice would, in all probability, the been treated with contempt, or, at least, with netct. Such is the weakness and folly of mankind, and the the want of foresight, even in those who ought to be the treated with contempt.

With regard to the diet of the studious, we see no reawhy they should abstain from any kind of food that wholesome, provided they use it in moderation. They ght, however, to be sparing in the use of every thing t is windy, rancid, or hard of digestion. Their suppers uld always be light, or taken soon in the evening. eir drink may be water, fine malt liquor, not too strong, d cyder, wine and water, or, if troubled with acidities, er mixed with a little brandy, rum, or any other gene spirit.

Ve shall only observe, with regard to those kinds of reises, which are most proper for the studious, that they uld not be too violent, nor ever carried to the degree of essive fatigue. They ought likewise to be frequently ed so as to give action to all the different parts of the y: and should, as often as possible, be taken in the n air. In general, riding on horseback, walking,

OF ALIMENT.

working in a garden, or playing at some active diversions are the best.

We would likewise recommend the use of the cold bath to the studious. It will in some measure, supply the place of exercise, and should not be neglected by person of a relaxed habit, especially in the warm season.

No person ought either to take violent exercise, or to study immediately after a full meal.

CHAP. III.

OF ALIMENT.

UNWHOLESOME food, and irregularities in diet, occasion many diseases. There is no doubt but the whole constitution of body may be changed by diet alone. The fluids may be thereby attenuated or condensed, rendered mild or acrimonious, coagulated or diluted, to almost any degree. Nor are its effects upon the solids less considerable. They may be braced or relaxed, have their sensibility, motions, &c. greatly increased or diminished by different kinds of aliment. A very small attention to these things will be sufficient to shew, how much the preservation of health depends upon a proper regimen of the diet.

Nor is an attention to diet necessary for the preservation of health only: it is likewise of importance in the cure of diseases. Every intention is the cure of diseases, may be answered by diet alone. Its effects, indeed, are not always so quick as those of medicine, but they are generally more lasting: besides, it is neither so disagreeable to the patient, nor so dangerous as medicine, and is always more easily obtained.

Our intention here is not to inquire minutely into the nature and properties of the various kinds of aliment in use among mankind; nor to shew their effects upon the different constitutions of the human body; but to mark some of the most pernicious errors which people are apt to fall into, with respect both to the quantity and qualities of their food, and to point out their influence upon health.

It is not indeed an easy matter to ascertain the exact uantity of food proper for every age, sex, and constituion : but a scrupulous nicety here is by no means necesury. The best rule is to avoid all extremes. Mankind rere never intended to weigh and measure their food. lature teaches every creature when it has enough, and he calls of thirst and hunger are sufficient to inform them hen more is necessary.

Though moderation is the chief rule with regard to the nantity, yet the quality of food merits a farther considerion. There are many ways by which provisions may be ndered unwholesome. Bad seasons may either prevent e ripening of grain, or damage it afterwards. These, deed, are acts of Providence, and we must submit to em; but surely no punishment can be too severe for ose who suffer provisions to spoil by hoarding them, on urpose to raise the price, or who promote their own inest by adulterating the necessaries of life *.

Animal, as well as vegetable food, may be rendered unolesome, by being kept too long. All animal substances re a constant tendency to putrefaction ; and when that proceeded too far, they not only become offensive to senses, but hurtful to health. Diseased animals, and h as die of themselves, ought never to be eaten. It is pmmon practice, however, in some grazing countries, for ants and poor people to eat such animals as die of any ease, or are killed by accident. Poverty, indeed, may ige people to do this ; but they had better eat a smaller intity of what is sound and wholesome ; it would both rd a better nourishment, and be attended with less ger.

he injunctions given to the Jews, not to eat any creawhich died of itself, seem to have a strict regard to th; and ought to be observed by Christians as well as s. Animals never die themselves without some pres disease; but how a diseased animal should be whole-

The poor, indeed, are generally the first who suffer by unsound ions; but the lives of the labouring poor are of great importance to ite; besides, diseases occasioned by unwholesome food often proves ous, by which means they reach people in every station. It is thereie interest of all to take care that no spoilt provisions of any kind be id to sale.

OF ALIMENT.

some food is inconceivable : even those which die by accident must be hurtful, as their blood is mixed with the flesh, and soon turns putrid.

Animals which feed grossly, as tame ducks, hogs, &c are neither so easily digested, nor afford such wholesom nourishment as others. No animal can be wholesom which does not take sufficient exercise. Most of our stal led cattle are crammed with gross food, but not allowed exercise nor free air; by which means they indeed grow fat, but their juices not being properly prepared or assimilated, remain crude, and occasion indigestions, gross humours, and oppression of the spirits, in those who feed upon them.

Animals are often rendered unwholesome by being over heated. Excessive heat causes a fever, exalts the animasalts, and mixes the blood so intimately with the flesh, tha it cannot be separated. For this reason, butchers should be severely punished who over-drive their cattle. No per son would chuse to eat the flesh of an animal which had died in a high fever; yet that is the case with all over drove cattle; and the fever is often raised even to the degree of madness.

But this is not the only way by which butchers rendemeat unwholesome. The abominable custom of filling the cellular membrane of animals with air, in order to make them appear fat, is every day practised. This no only spoils the meat, and renders it unfit for keeping, but is such a dirty trick, that the very idea of it is sufficient to disgust a person of any delicacy at every thing which comes from the shambles. Who can bear the thought of eating meat which has been blown up with air from the lungs of a dirty fellow, perhaps labouring under the very worst of diseases?

Butchers have likewise a method of filling the cellular membranes of animals with blood. This makes the meat seem fatter, and likewise weigh more, but is notwithstanding a very pernicious custom, as it both renders the meat unwholesome and unfit for keeping. I seldom see a piece of meat from the shambles, where the blood is not diffused through the cellular texture. I shall not say that this is always the effect of design ; but I am certain it is not the case with animals that are killed for domestic use, and operly blooded. Veal seems to be most frequently poilt in this way. Perhaps that may in some measure be ving to the practice of carrying calves from a great disnce to market, by which means their tender flesh is uised, and many of their vessels burst.

No people in the world eat such quantities of animal od as the English, which is one reason why they are so nerally tainted with the scurvy and its numerous train consequences, indigestion, low spirits, hypochondriasm, &c. Animal food was surely designed for man, and, th a proper mixture of vegetables, it will be found the ost wholesome; but to gorge beef, mutton, pork, fish, d fowl, twice or thrice a day, is certainly too much.— I who value bealth ought to be contented with making e meal of flesh in the twenty-four hours, and this ought consist of one kind only.

The most obstinate scurvy has often been cured by a getable diet; nay, milk alone will frequently do more that disease than any medicine. Hence it is evident, t if vegetables and milk were more used in diet, we huld have less scurvy, and likewise fewer putrid and innmatory fevers. Fresh vegetables, indeed, come to be ly more used in diet: this laudable practice we hope l continue to gain ground.

Our aliment ought neither to be too moist nor too dry. ist aliment relaxes the solids, and renders the body ole. Thus we see females, who live much on tea and er watery diet, generally becomes weak, and unable to est solid food : hence proceed hysterics, and all their udful consequences. On the other hand, food that is dry, renders the solids in a manner rigid, and the huirs viscid, which disposes the body to inflammatory fe-, scurvies, and the like.

Iuch has been said on the ill effects of tea in diet. y are, no doubt, numerous ; but they proceed rather i the imprudent use of it, than from any bad qualities ie tea itself. Tea is now the universal breakfast in this of the world ; but the morning is surely the most imper time of the day for drinking it. Most delicate per-, who, by the bye, are the greatest tea-drinkers, can-

OF ALIMENT.

not eat any thing in the morning. If such persons, afte fasting ten or twelve hours, drink four or five cups of te without eating almost any bread, it must hurt them. Goo tea, taken in moderate quantity, not too strong, not to hot, nor drunk upon an empty stomach, will seldom d harm ; but if it be bad, which is often the case, or substituted in the room of solid food, it must have many i effects.

The arts of cookery render many things unwholesome which are not so in their own nature. By jumbling to gether a number of different ingredients, in order to mak a poignant sauce or rich soup, the composition proves al most a poison. All high seasoning, pickles, &c. are onl incentives to luxury, and never fail to hurt the stomach It were well for mankind, if cookery, as an art were entirely prohibited. Plain roasting or boiling is al that the stomach requires. These alone are sufficien for people in health, and the sick have still less need of cook.

The liquid part of our aliment likewise claims our at tention. Water is not only the basis of most liquors, bu also composes a great part of our solid food. Good wa ter must therefore be of the greatest importance in diet .-The best water is that which is most pure, and free from any mixture of foreign bodies. Water takes up parts o most bodies with which it comes into contact ; by this means it is often impregnated with metal or minerals of hurtful or poisonous nature. Hence the inhabitants of some hilly countries have peculiar diseases, which in all probability proceed from the water. Thus the people who live near the Alps in Switzerland, and the inhabitants of the Peak of Derby in England, have large tumours or wens on their necks. This disease is generally imputed to the snow water ; but there is more reason to believe it 15 owing to the minerals in the mountains through which the waters pass.

When water is impregnated with foreign bodies, it generally appears by its weight, colour, taste, smell, heat, or some other sensible quality. Our business therefore is to chuse such water, for common use as is lightest, and without any particular colour, taste, or smell. In most

81

aces of Britain the inhabitants have it in their power to ake choice of their water; and few things would contriate more to health than a due attention to this article ut mere indolence often induces people to make use of e water that is nearest to them, without considering its ialities.

Before water is brought into great towns, the strictest tention ought to be paid to its qualities, as many diseases ay be occasioned or aggravated by bad water ; and when ce it has been procured at a great expence, people are willing to give it up.

The common methods of rendering water clear by filtion, or soft, by exposing it to the sun and air, &c. are generally known; that it is unnecessary to spend time explaining them. We shall only; in general, advise all avoid waters which stagnate long in small lakes; ponds, the like, as such waters often become putrid, by the corption of animal and vegetable bodies with which they aund: Even cattle frequently suffer by drinking, in dry sons, water which has stood long in small reservoirs; thout being supplied by springs, or freshened with owers. All wells ought to be kept clean, and to have a e communication with the air.

As fermented liquors, notwithstanding they have been laimed against by many writers, still continue to be common drink of almost every person who can afford m; we shall rather endeavour to assist people in the pice of these liquors, than pretend to condemn what tom has so firmly established. It is not the moderate of sound fermented liquors which hurts mankind : it xcess, and using such as are ill prepared or vitiated. 'ermented liquors, which are too strong, hurt diges-

i; and the body is so far from being strengthened by m, that it is weakened and relaxed. Many imagine t hard labour could not be supported without drinking ing liquors : this is a very erroneous notion. Men o never taste strong liquors are not only able to endure t fatigue, but also live much longer, than those who them daily. But, suppose strong liquors did enable a n to do more work, they must nevertheless waste the vers of life, and occasion premature old age. They

OF ALIMENT.

keep up a constant fever, which exhausts the spirits, in flames the blood, and disposes the body to numberle: diseases.

But fermented liquors may be too weak as well as to strong : when that is the case, they must either be drun new, or they become sour and dead : when such liquo are drunk new, the fermentation not being over, they ge nerate air in the bowels, and occasion flatulencies ; and when kept till stale, they turn sour on the stomach, and hu digestion. For this reason all malt-liquors, cyder, & ought to be of such strength as to keep till they be ripe and then they should be used. When such liquors ar kept too long, though they should not become sour, ye they generally contract a hardness, which renders ther unwholesome.

All families, who can, ought to prepare their own I quors. Since preparing and vending of liquors becam one of the most general branches of business, every me thod has been tried to adulterate them. The great object both to the makers and venders of liquor is, to render i intoxicating, and give it the appearance of age. But it i well known that this may be done by other ingredient than those which ought to be used for making it strong .-It would be imprudent even to name those things which are daily made use of to render liquors heady. Suffice it to say, that the practice is very common, and that all the in gredients used for this purpose are of a narcotic or stupe factive quality. But as all opiates are poisonous, it is easy to see what must be the consequence of their general use Though they do not kill suddenly, yet they hurt the nerves relax and weaken the stomach, and spoil the digestion.

Were fermented liquors faithfully prepared, kept to a proper age, and used in moderation, they would prove reablessings to mankind. But, while they are ill prepared various ways adulterated, and taken to excess, they must have many pernicious effects.

We would recommend it to families, not only to prepare their own liquors, but likewise their bread. Bread is so necessary a part of diet, that too much care cannot be bestowed in order to have it sound and wholesome.— For this purpose, it is not only necessary that it be made

83

good grain, but likewise properly prepared, and kept e from all unwholesome ingredients. This, however, have reason to believe is not always the case with bread epared by those who make a trade of vending it. Their ject is rather to please the eye, than to consult the health. he best bread is that which is neither too course nor too e; well fermented and made of wheat flour, or rather wheat and rye mixed together.

To specify the different kinds of aliment, to explain ir nature and properties, and to point out their effects different constitutions, would far exceed the limits of design. Instead of a detail of this kind, which would be generally understood, and of course little attended we shall only mention the following easy rules with pect to the choice of aliment.

Persons, whose solids are weak and relaxed, ought to id all vicid food, or such things as are hard of diges-. Their diet, however, ought to be nourishing ; and y should take sufficient exercise in the open air.

such as abound with blood should be sparing in the of every thing that is highly nourishing, as fat meat, wines, strong ale, and such like. Their foods should sist chiefly of bread and other vegetable substances; their drink ought to be water, whey, or small beer. at people should not eat freely of oily nourishing diet. y ought frequently to use raddish, garlic, spices, or things as are heating and promote perspiration and e. Their drink should be water, coffee, tea, or the ; and they ought to take much exercise and little sleep. se who are too lean must follow an opposite course. ich as are troubled with acidities, or whose food is apt ur on the stomach, should live much on animal food ; those who are afflicted with hot alkaline eructations, it to use a diet consisting chiefly of acid vegetables. ople who are affected with the gout, low spirits, hyondriac or hysteric disorders, ought to avoid all flat food, every thing that is viscid, or hard of digesall salted or smoke-dried provisions, and whatever stere, acid, or apt to turn sour on the stomach. food should be light, spare, cool, and of an open-

OF ALIMENT.

The diet ought not only to be suited to the age and constitution, but also to the manner of life: a sedentary or studious person should live more sparingly than on who labours hard without doors. Many kinds of foor will nourish a peasant very well which would be almost indigestible to a citizen; and the latter will live upon: diet on which the former would starve.

Diet ought not to be too uniform. The constant us of one kind of food might have some bad effects. Nature teaches us this, by the great variety of aliment which she ha provided for man, and likewise by giving him an appetit for different kinds of food.

Those who labour under any particular disease, ough to avoid such aliments as have a tendency to increase it for example, a gouty person should not indulge in rich wines, strong soups, or gravies, and should avoid all acids One who is troubled with the gravel ought to shun al austere and astringent aliments; and those who an scorbutic should be sparing in the use of salted provisions, &c.

In the first period of life, our food ought to be light but nourishing, and frequently taken. Food that is solid with a sufficient degree of tenacity, is most proper for the state of manhood. The diet suited to the last period o life, when nature is upon the decline, approaches nearly to that of the first. It should be lighter and more succulent than that of vigorous age, and likewise more frequently taken.

It is not only necessary for health that our diet be wholesome, but also that it be taken at regular periods. Some imagine that long fasting will atone for excess; but this, instead of mending the matter, generally makes it worse. When the stomach and intestines are over distended with food, they lose their proper tone, and, by long fasting, they become weak, and inflated with wind. Thus either gluttony or fasting destroys the powers of digestion.

The frequent repetition of aliment is not only necessary for repairing the continual waste of our bodies, but likewise to keep the fluids sound and sweet. Our humours, even in the most healthy state, have a constant tendency to putrefaction, which can only be prevented by frequent

pplies of fresh nourishment : when that is wanting too ig, the putrefaction often proceeds so far as to occasion ry dangerous fevers. From hence we may learn the nesity of regular meals. No person can enjoy a good state health, whose vessels are either frequently overcharged, the humours long deprived of fresh supplies of chyle. Long fasting is extremely hurtful to young people ; it conly vitiates their humours, but prevents their growth. r is it less injurious to the aged. Most persons, in the line of life, are afflicted with wind ; this complaint is only increased, but even rendered dangerous, and offatal, by long fasting. Old people, when their stochs are empty, are frequently seized with giddiness, d-achs, and faintness. These complaints may geney be removed by a piece of bread and a glass of ne, or taking any other solid food ; which plainly ints out the method of preventing them.

t is more than probable, that many of the sudden ths, which happen in the advanced periods of life, are asioned by fasting too long, as it exhausts the spirits, fills the bowels with wind ; we would therefore advise ple, in the decline of life, never to allow their stomachs be too long empty. Many people take nothing but a cups of tea and a little bread, from nine o'clock at it till two or three next afternoon. Such may be said ast almost three-fourths of their time. This can hardul to ruin the appetite, vitiate the humours, and fill the els with wind ; all which might be prevented by a solid kfast.

is a very common practice to eat a light breakfast and avy supper. This custom ought to be reversed. When ole sup late, their supper should be very light; but breakfast ought always to be solid. If any one eats a supper, goes soon to bed, and rises betimes in the ning, he will be sure to find an appetite for his breakand he may freely indulge it.

he strong and healthy do not indeed suffer so much fasting, as the weak and delicate; but they run great rd from its opposite, viz. repletion. Many diseases, cially fevers, are the effects of a plethora, or too great ress of the vessels. Strong people, in high health.

OF ALIMENT.

have generally a great quantity of blood and other himours. When these are suddenly increased, by an ove charge of rich and nourishing diet, the vessels become to much distended, and obstructions, and inflammations er sue. Hence so many people are seized with inflammator and eruptive fevers after a feast or debauch.

All great and sudden changes in diet are dangerou What the stomach has been long accustomed to diges though less wholesome, will agree better with it than foc of a more salutary nature which it has not been used to When therefore a change becomes necessary, it ought a ways to be made gradually; a sudden transition from poor and low, to a rich and luxurious diet, or the contra ry, might so disturb the functions of the body as to endar ger health, or even to occasion death itself.

When we recommend regularity in diet, we would no be understood as condemning every small deviation from in It is next to impossible for people at all times to avoid som degree of excess, and living too much by rule might mak even the smallest deviation dangerous. It may therefor be prudent to vary a little, sometimes taking more, some times less, than the usual quantity of meat and drink, prowided always that a due regard be had to moderation.

C H A P. IV. OF AIR.

UNWHOLESOME air is a very common cause of diseases. Few are aware of the danger arising from it. People generally pay some attention to what they eat and drink, but seldom regard what goes into the lungs, though the latter proves more suddenly fatal than the former.

Air, as well as water, takes up parts of most bodies with which it comes in contact, and is often so replenished with those of a noxious quality, as to occasion immediate death. But such violent effects seldom happen, as people are generally on their guard against them. The less perceptible influences of bad air prove more generally hurtful to mankind; we shall therefore endeavour to point

\$6

some of these, and to shew from whence the danger efly arises.

Air may become noxious many ways. Whatever greatalters its degree of heat, cold, moisture, &c. renders inwholesome : for example, that which is too hot distes the watery parts of the blood, exalts the bile, and lers the whole humours adust and thick. Hence eed bilious and inflammatory fevers, cholera mor-&c. Very cold air obstructs the perspiration, conges the solids, and condenses the fluids. It occasions matisms, coughs, and catarrhs, with other diseases of hroat and breast. Air that is too moist destroys the icity or spring of the solids, induces phlegmatic or lax titutions, and disposes the body to agues, or intermitfevers, dropsies, &c.

herever great numbers of people are crowded into one , if the air has not a free circulation, it soon becomes holesome. Hence it is that delicate persons are so o turn sick or faint in crowded churches, assemblies, ny place where the air is injured by breathing, fires, es, or the like.

great cities, so many things tend to contaminate the that it is no wonder it proves so fatal to the inhabi-The air in cities is not only breathed repeatedly but it is likewise loaded with sulphur, smoke, and exhalations, besides the vapours continually arising innumerable putrid substances, as dunghills, slanghouses, &c. All possible care should be taken to the streets of large towns open and wide, that the ay have a free current through them. They ought se to be kept very clean. Nothing tends more to e and contaminate the air of a city than dirty streets. s very common in this country to have church-yards middle of populous cities. Whether this be the of ancient superstition, or owing to the increase of owns, is a matter of no consequence. Whatever ise to the custom, it is a bad one. It is habit alone reconciles us to these things; by means of which ost ridiculous, nay pernicious customs, often become Certain it is, that thousands of putrid carcasses, r the surface of the earth, in a place where the air

OF AIR.

is confined, cannot fail to taint it; and that such air, when breathed into the lungs, must occasion diseases.*

Burying within churches is a practice still more detestable. The air in churches is seldom good, and the effluvia from putrid carcasses must render it still worse.— Churches are commonly old buildings with arched roofs. They are seldom open above once a week, are never ventilated by fires nor open windows, and rarely kept clean. This occasions that damp, musty, unwholesome smell which one feels upon entering a church, and renders it a very unsafe place for the weak and valetudinary. These inconveniences might, in a great measure, be obviated, by prohibiting all persons from burying within churches, by keeping them clean, and permitting a stream of fresh air to pass frequently through them, by opening opposite doors and windows. †

Wherever air stagnates long, it becomes unwholesome. Hence the unhappy persons confined in jails not only contract malignant fevers themselves, but often communicate them to others. Nor are many of the holes, for we cannot call them houses, possessed by the poor in great towns, much better than jails. These low dirty habitations are the very lurking places of bad air and contagious diseases. Such as live in them seldom enjoy good health ; and their children commonly die young. In the choice of a house, those who have it in their power ought always to pay the greatest attention to open free air.

The various methods which luxury has invented to make houses close and warm, contribute not a little to render them unwholesome. No house can be wholesome unless the air has a free passage through it. For which reason houses ought daily to be ventilated, by opening opposite windows, and admitting a current of fresh air into every room. Beds, instead of being made up as soon as people rise out of them, ought to be turned down,

* In most eastern countries it was customary to bury the dead at some distance from any town. As this practice obtained among the Jews, the Greeks, and also the Romans, it is strange that the western parts of Europe should not have followed their example in a custom so truly laudable.

+ One cannot pass through a large church or cathedral, even in summer, without feeling quite chilly. and exposed to the fresh air from the open windows through the day. This would expel any noxious vapour, and could not fail to promote the health of the inhabitants.

89

In hospitals, jails, ships, &c. where that cannot be conveniently done, ventilators should be used. The method of expelling foul, and introducing fresh air, by means of ventilators, is a most salutary invention, and is indeed the most useful of all our modern medical improvements. It is capable of universal application, and is fraught with numerous advantages, both to those in health and sickness. In all places, where numbers of people are crowded together, ventilation becomes absolutely necessary.

Air which stagnates in mines, wells, cellars, &c. is extremely noxious. That kind of air is to be avoided as the most deadly poison. It often kills almost as quickly as lightning. For this reason, people should be very cautious, in opening cellars that have been long shut, or going down into deep wells or pits, especially if they have been kept close covered *.

Many people who have splendid houses, chuse to sleep in small apartments. This conduct is very imprudent. A bed-chamber ought always to be well-aired; as it is generally occupied in the night only, when all doors and winldows are shut. If a fire be kept in it, the danger from a small room becomes still greater. Numbers have been stifled when asleep, by a fire in a small apartment, which is always hurtful.

Those who are obliged, on account of business, to spend the day in close towns, ought, if possible, to sleep in the country. Breathing free air in the night will, in some measure, make up for the want of it through the day. This practice would have a greater effect in preserving the health of citizens than is commonly imagined

Delicate persons ought, as much as possible. to avoid the air of great towns. It is peculiarly hurtful to the asthmatic and consumptive. Such persons should avoid

^{*} We have daily accounts of persons who lose their lives by going down into deep wells and other places where the air stagnates; all these accidents might be prevented by only letting down a lighted candle before them, and stopping when they perceive it go out; yet this precaution simple as it is, is seldom used.

cities as they would the plague. The hypochondriac are likewise hurt by it. I have often seen persons so much afflicted with this malady while in town, that it seemed impossible for them to live, who, upon being removed to the country, were immediately relieved. The same observation holds with regard to nervous and hysteric women. Many people, indeed, have it not in their power to change their situation in quest of better air. All we can say to such persons is, that they should go as often abroad into the open air as they can, that they should admit fresh air frequently into their houses, and take care to keep them very clean.

It was necessary in former times, for safety, to surround cities, colleges, and even single houses, with high walls. These, by obstructing the free current of air, never fail to render such places damp and unwholesome. As such walls are now, in most parts of this country, become useless, they ought to be pulled down, and every method taken to admit a free passage to the air. Proper attention to AIR and CLEANLINESS would tend more to preserve the health of mankind, than all the endeavours of the faculty.

Surrounding houses too closely with planting, or thick woods, likewise tends to render the air unwholesome. Wood not only obstructs the free current of the air, but sends forth great quantities of moist exhalations, which render it constantly damp. Wood is very agreeable at a proper distance from a house, but should never be planted too near it, especially in a flat country. Many of the gentlemen's seats in England are rendered very unwholesome from the great quantity of wood which surrounds them.

Houses situated in low marshy countries, or near large lakes of stagnating water, are likewise unwholesome. Waters which stagnate not only render the air damp, but load it with putrid exhalations, which produce the most dangerous and fatal diseases. Those who are obliged to inhabit marshy countries, ought to make choice of the dryest situations they can find, to live generously, and to pay the strictest regard to cleanliness.

If fresh air be necessary for those in health, it is still

more so for the sick, who often lose their lives for want of it. The notion that sick people must be kept very hot, is so common, that one can hardly enter the chamber where a patient lies, without being ready to faint, by reason of the hot suffocating smell. How this must affect the sick, any one may judge. No medicine is so beneficial to the sick as fresh air: It is the most reviving of all cordials, if it be administered with prudence. We are not, however, to throw open doors and windows at random upon the sick. Fresh air is to be let into the chamber gradually, and if possible, by opening the windows of some other apartment.

The air of a sick person's chamber may be greatly freshened and the patient much revived, by sprinkling the floor, bed, &c. frequently with vinegar, juice of lemon, or any other strong vegetable acid.

In places where numbers of sick are crowded into the same house, or, which is often the case, into the same partment, the frequent admission of fresh air becomes absolutely necessary. Infirmaries, hospitals, &c. are often endered so noxious, for want of proper ventilation, that he sick run more hazard from them than from the disease. This is particularly the case when putrid fevers, dysenteries, nd other infectious diseases prevail.

Physicians, surgeons, and others who attend hospitals, ought, for their own safety, to take care that they be properly ventilated. Such persons as are obliged to spend nost of their time amongst the sick, run great hazard of eing themselves infected when the air is bad. All hositals, and places of reception for the sick, ought to have n open situation, at some distance from any great town, nd such patients as labour under any infectious disease ught never to be suffered to come near the rest *.

* A year seldom passes that we do not hear of some hospital physician surgeon having lost his life by an hospital fever caught from his paents. For this they have themselves alone to blame. Their patients are her in an improper situation, or they are too careless with regard to eir own conduct.

OF EXERCISE.

CHAP. V.

OF EXERCISE.

MANY people look upon the necessity man is under of earning his bread by labour, as a curse. Be this as it may, it is evident from the structure of the body, that exercise is not less necessary than food for the preservation of health : those whom poverty obliges to labour for daily bread, are not only the most healthy, but generally the most happy part of mankind. Industry seldom fails to place them above want, and activity serves them instead of physic. This is peculiarly the case with those who live by the culture of the ground. The great increase of inhabitants in infant colonies, and the longevity of such as follow agriculture every where, evidently prove it to be the most healthful as well as the most useful employment.

The love of activity shews itself very early in man. So strong is this principle, that a healthy youth cannot be restrained from exercise, even by the fear of punishment. Our love of motion is surely a strong proof of its utility. Nature implants no disposition in vain. It seems to be a catholic law throughout the whole animal creation, that no creature without exercise, should enjoy health, or be able to find subsistence. Every creature, except man, takes as much of it as is necessary. He alone, and such animals as are under his direction, deviate from this original law, and they suffer accordingly.

Inactivity never fails to induce an universal relaxation of the solids, which disposes the body to innumerable diseases. When the solids are relaxed, neither the digestion, nor any of the secretions, can be duly performed. In this case, the worst consequences must ensue. How can persons who loll all day in easy chairs, and sleep all night on beds of down, fail to be relaxed ? Nor do such greatly mend the matter, who never stir abroad but in a coach, sedan or such like. These elegant pieces of luxury are become so common, that the inhabitants of great towns seem to be in some danger of losing the use of their limbs altogether. It is now below any one to walk, who can afford to be carried. How ridiculous would it seem, to a person unacquainted with modern luxury, to behold the young and healthy swinging along on the shoulders of their fellowcreatures ! or to see a fat carcase, over-run with diseases occasioned by inactivity, dragged through the streets by half a dozen horses *!

Glandular obstructions, now so common, generally proceed from inactivity. These are the most obstinate of maladies. So long as the liver, kidneys, and other glands, duly perform their functions, health is seldom impaired; but, when they fail, nothing can restore it. Exercise is almost the only cure we know for glandular obstructions; indeed, it does not always succeed as a remedy; but there is reason to believe that it would seldom fail to prevent these complaints, were it used in due time. One thing is certain, that, amongst those who take sufficient exercise, glandular diseases are very little known; whereas the indolent and inactive are seldom free from them.

Weak nerves are the constant companions of inactivity. Nothing but exercise and open air can brace and strengthen the nerves, or prevent the endless train of diseases which proceed from a relaxed state of these organs. We seldom hear the active or laborious complain of nervous diseases; these are reserved for the sons of ease and affluence. Many have been completely cured of these disorders by being reduced, from a state of opulence, to labour for their daily bread. This plainly points out the sources from whence nervous diseases flow, and the means by which they may be prevented.

It is absolutely impossible to enjoy health, where the perspiration is not duly carried on ; but that can never be the case where exercise is neglected. When the matter which ought to be thrown off by perspiration is retained in the body, it vitiates the humours, and occasions the gout,

* It is not necessity, but fashion, which makes the use of carriages to common. There are many people who have not exercise enough to keep their humours wholesome, who yet dare not venture to make a risit to their next neighbours, but in a coach or sedan, lest they should be looked down upon. Strange, that men should be such fools as to be aughed out of the use of their limbs, or to throw away their health, in order to gratify a piece of vanity, or to comply with a ridiculous fashion ! fevers, rheumatism, &c. Exercise alone would prevent many of those diseases which cannot be cured, and would remove others where medicine proves ineffectual.

A late author, * in his excellent treatise on health, says; that the weak and valetudinary ought to make exercise a partof their religion. We would fecommend this, not only to the weak and valetudinary, but to all whose business does not oblige them to take sufficient exercise, as sedentary artificers, † shop-keepers, studious persons, &c. Such ought to use exercise as regularly as they take food. This might generally be done without any interruption to business or real loss of time.

No piece of indolence hurts the health more than the modern custom of lying a bed too long in a morning. This is the general practice in great towns. The inhabitants of cities seldom rise before eight or nine o'clock ; but the morning is undoubtedly the best time for exercise, while the stomach is empty, and the body refreshed with sleep. Besides, the morning air braces and strengthens the nerves, and, in some measure, answers the purpose of a cold bath. Let any one who has been accustomed to lie a-bed till eight or nine o'clock, rise by six or seven. spend a couple of hours in walking, riding, or any active diversion without doors, and he will find his spirits cheerful and serene through the day, his appetite keen, and his body braced and strengthened. Custom soon renders early rising agreeable, and nothing contributes more to the preservation of health.

* Cheyne.

+ Sedentary occupations ought chiefly to be followed by women. They bear confinement much better than men, and are fitter for every kind of business which does not require much strength. It is ridiculous enough to see a lusty fellow making pins, needles, or watch-wheels, while many of the laborious parts of husbandry are carried on by the other sex. The fact is, we want men for laborious employments, while one half of the other sex are rendered useless for want of occupations suited to their strength, &c. Were girls bred to mechanical employments, we should not see such numbers of them prostitute themselves for bread, nor find such a want of men for the important purposes of navigation, agriculture, &c. An eminent silk manufacturer told me, that he found women answer better for that business, than men; and that he had lately taken a great many girls apprentices as silk-weavers. I hope his example will be followed by many others. The inactive are continually complaining of pains of the stomach, flatulencies, indigestions, &c. These complaints which pave the way to many others, are not to be removed by medicines. They can only be cured by a vigorous course of exercise, to which indeed they seldom fail to yield. Exercise, if possible, ought always to be taken in the open air. When that cannot be done, various methods may be contrived for exercising the body within doors, as the dumb bell, dancing, fencing, &c. It is not necessary to adhere strictly to any particular kind of exercise. The best way is to take them by turns, and to use that longest which is most suitable to the strength and constitution. Those kinds of exercise which give action to most of the bodily organs, are always to be preferred, as walking, running, riding, digging, swimming, and such like.

It is much to be regretted, that active and manly diversions are now so little practised. Diversions make people take more exercise than they otherwise would do, and are of the greatest service to such as are not under the necessity of labouring for their bread. As active diversions lose ground, those of a sedentary kind seem to prevail. Selentary diversions are of no other use but to consume ime. Instead of relieving the mind, they often require nore thought than either study or business. Every thing hat induces people to sit still, unless it be some necessary mployment, ought to be avoided.

The diversions which afford the best exercise are, huntng, shooting, playing at cricket, hand-ball, golf*, &c. These exercise the limbs, promote perspiration, and the ther secretions. They likewise strengthen the lungs, ive firmness and agility to the whole body.

Such as can, ought to spend two or three hours a-day n horseback; those who cannot ride, should employ the ime time in walking. Exercise should never be continud too long. Over-fatigue prevents the benefit of exercise, and instead of strengthening the body tends to weaken it.

* Golf is a diversion very common in North Britain. It is well calcuted for exercising the body, and may always be taken in such modera. on, as neither to overheat nor fatigue. It has greatly the preference er cricket, tennis, or any of those games which cannot be played without olence.

OF EXERCISE.

Every man should lay himself under some sort of necessity to take exercise. Indolence, like other vices when indulged, gains ground, and at length becomes agreeable. Hence many who were fond of exercise in the early part of life, become quite averse from it afterwards. This is the case of most hypochondriac and gouty people, which renders their diseases in a great measure incurable.

In some countries laws have been made, obliging every man, of whatever rank, to learn some mechanical employment. Whether such laws were designed for the preservation of health, or the encouragement of manufacture, is a question of no importance. Certain it is, that if gentlemen were frequently to amuse and exercise themselves in this way, it might have many good effects. They would at least derive as much honour from a few masterly specimens of their own workmanship, as from the character of having ruined most of their companions by gaming or drinking. Besides, men of leisure, by applying themselves to the mechanical arts, might improve them, to the great benefit of society.

Indolence not only occasions diseases, and renders men useless to society, but promotes all manner of vice. To say a man is idle, is little better than to call him vicious. The mind, if not engaged in some useful pursuit, is constantly in quest of ideal pleasures, or impressed with the apprehension of some imaginary evil. From these sources proceed most of the miseries of mankind. Certainly man was never intended to be idle. Inactivity frustrates the very design of his creation; whereas an active life is the best guardian of virtue, and the greatest preservative of health.

CHAP. VI.

OF SLEEP AND CLOTHING.

SLEEP, as well as diet, ought to be duly regulated. Too little sleep weakens the nerves, exhausts the spirits, and occasions diseases; and too much renders the mind dull, the body gross, and disposes to apoplexies, lethargies, and other complaints of a similar nature. A medium

97

ought therefore to be observed; but this is not easy to fix. Children require more sleep than grown persons, the laborious than the idle, and such as eat and drink freely than those who live abstemiously. Besides, the real quantity of sleep cannot be measured by time; as one person will be more refreshed by five or six hours sleep, than another by eight or ten.

Children may always be allowed to take as much sleep is they please; but, for adults, six or seven hours is cerainly sufficient, and no one ought to exceed eight. Those who lie a-bed more than eight hours may slumber, but hey can hardly be said to sleep; such generally toss and lream away the fore part of the night, sink to rest towards norning, and dose till noon. The best way to make leep sound and refreshing is to rise betimes. The custom of lying a-bed for nine or ten hours, not only makes the leep less refreshing, but relaxes the solids, and greatly veakens the constitution.

Nature points out night as the proper season for sleep. Nothing more certainly destroys the constitution than ight-watching. It is great pity that a practice so destrucve to health should be so much in fashion. How quickly he want of rest in due season will blast the most blooming complexion, or ruin the best constitution, is evident from he ghastly countenances of those who, as the phrase is, im day into night, and night into day.

To make sleep refreshing, the following things are reuisite: First, to take sufficient exercise in the open air; avoid strong tea or coffee; next. to eat a light supper; id lastly, to lie down with a mind as cheerful and serene possible.

It is certain that too much exercise will prevent sleep, well as too little. We seldom however hear the active d laborious complain of restless nights. It is the indolent d slothful who generally have these complaints. Is it y wonder that a bed of down should not be refreshing a person who sits all day in an easy chair ? A great rt of the pleasure of life consists in alternate rest and moin; but they who neglect the latter can never relish the mer. The labourer enjoys more true luxury in plain food and sound sleep, than is to be found in sumptuous tables and downy pillows, where exercise is wanting.

That light suppers cause sound sleep, is true even to a proverb. Many persons, if they exceed the least at that meal, are sure to have uneasy nights; and, if they fall asleep, the load and oppression on their stomach and spirits occasion frightful dreams, broken and disturbed repose, the night-mare, &c. Were the same persons to go to bed with a light supper, or sit up till that meal was pretty well digested, they would enjoy sound sleep, and rise refreshed and cheerful. There are indeed some people who cannot sleep unless they have ate some solid food at night, but this does not imply the necessity of a heavy supper; besides, these are generally persons who have accustomed themselves to this method, and who do not take a sufficient quantity of solid food and exercise.

Nothing more certainly disturbs our repose than anxiety. When the mind is not at ease, one seldom enjoys sound sleep. The greatest of human blessings flies the wretched, and visits the happy, the cheerful, and the gay. This is a sufficient reason why every man should endeavour to be as easy in his mind as possible when he goes to rest. Many, by indulging grief and anxious thought, have banished sound sleep so long, that they could never afterwards enjoy it.

Sleep, when taken in the fore part of the night, is generally reckoned most refreshing. Whether this be the effect of habit or not, is hard to say; but as most people are accustomed to go to bed early when young, it may be presumed that sleep, at this season, will prove most refreshing to them ever after. Whether the fore-part of the night be best for sleep or not, surely the fore-part of the day is fittest both for business and amusement. I hardly ever knew an early riser who did not enjoy a good state of health *.

* Men of every occupation, and in every situation of life have lived to a good old age; nay, some have enjoyed this blessing, whose plan of living was by no means regular; but it consists with observation, that all very old men have been early risers. This is the only circumstance attending longevity, to which I never knew an exception.

99

Of Clothing.

The clothing ought to be suited to the climate. Custom has no doubt a very great influence in this article; but no custom can ever change the nature of things so far, as to render the same clothing fit for an inhabitant of Nova Zembla and the island of Jamaica. It is not indeed necessary to observe an exact proportion between the quantity of clothes we wear, and the degree of latitude which we inhabit; but, at the same time, proper attention ought to be paid to it, as well as the openness of the country, the frequency and violence of storms, &c.

In youth, while the blood is hot and the perspiration free, it is less necessary to cover the body with a great quantity of clothes; but, in the decline of life, when the skin becomes rigid and the humours more cool, the clothing should be increased. Many diseases in the latter period of life proceed from a defect of perspiration: these may, in some measure, be prevented by a suitable addition to the clothing, or by wearing such as are better calculated for promoting the discharge from the skin, as clothes made of cotton, flannel, &c.

The clothing ought likewise to be suited to the season of the year. Clothing may be warm enough for summer, which is by no means sufficient for winter. The greatest caution, however, is necessary in making these changes. We ought neither to put off our winter clothes too soon, nor to wear our summer ones too long. In this country, the winter often sets in very early with great rigour, and we have frequently cold weather even after the commencement of the summer months. It would likewise be prulent not to make the change all at once, but to do it gralually; and indeed the changes of apparel in this climate ought to be very inconsiderable, especially among those who have passed the meridian of life *.

* That colds kill more than plagues, is an old observation; and with egard to this country, it holds strictly true. Every person of discerntent, however, will perceive, that most of the colds which prove so deractive to the inhabitants of Britain are owing to their imprudence in hanging clothes. A few warm days in March or April induce them to now off their winter garments, without considering that our most pene. Clothes often become hurtful by their being made subservient to the purposes of pride or vanity. Mankind in all ages seem to have considered clothes in this view; accordingly their fashion and figure have been continually varying, with very little regard either to health, the climate, or conveniency: a farthingale, for example, may be very necessary in hot southern climates, but surely nothing can be more ridiculous in the cold regions of the north.

Even the human shape is often attempted to be mended by dress, and those who know no better believe that mankind would be monsters without its assistance. All attempts of this nature are highly pernicious. The most destructive of them in this country is that of squeezing the stomach and bowels into as narrow a compass as possible, to procure, what is falsely called, a fine shape *. By this practice the action of the stomach and bowels, the motion of the heart and lungs, and almost all the vital functions, are obstructed. Hence proceed indigestions, syncopes, or fainting fits, coughs, consumptions of the lungs, and other complaints so common among females.

The feet, likewise, often suffer by pressure. How a small foot came to be reckoned genteel, I will not pretend to say; but certain it is, that this notion has made many persons lame. Almost nine tenths of mankind are troubled with corns: a disease that is seldom or never occasioned but by strait shoes. Corns are not only very troublesome, but by rendering people unable to walk, they may likewise be considered as the remote cause of other diseases \dagger .

The size and figure of the shoe ought certainly to be adapted to the foot. In children the feet are as well shaped as the hands, and the motion of the toes as free and easy as that of the fingers ; yet few persons in the advanced periods of life are able to make any use of their toes. They are generally, by narrow shoes, squeezed all of a heap, and often

* This madness seems to have pervaded the minds of mothers in every age and country. Terence, in his Comedy of the Eunuch, ridicules the Roman matrons for attempting to mend the shape of their daughters. + We often see persons, who are rendered quite lame by the nails of their toes having grown into the flesh, and frequently hear of mortifications proceeding from this cause. All these, and many other inconveniencies attending the feet, must be imputed solely to the use of short and strait shoes. laid over one another in such a manner as to be rendered altogether incapable of motion. Nor is the high heel less hurtful than the narrow toe. A lady may seem taller for walking on her tiptoes, but she will never walk well in this manner. It strains her joints, distorts her limbs, makes her stoop, and utterly destroys all her ease and gracefulness of motion: it is entirely owing to shoes with high heels and narrow toes, that not one female in ten can be said to walk well.

In fixing on the clothes, due care should be taken to avoid all tight bandages. Garters, buckles, &c. when drawn too tight, not only prevent the free motion and use of the parts about which they are bound, but likewise obstruct the circulation of the blood, which prevents the equal nourishment and growth of these parts, and occasion various diseases. Tight bandages about the neck, as stocks, cravats, necklaces, &c. are extremely dangerous. They obstruct the blood in its course from the brain, by which means headachs, vertigos, apoplexies, and other fatal diseases are often occasioned.

The perfection of dress is to be easy and clean. Nothing can be more ridiculous, than for any one to make himself a slave to fine clothes. Such a one, and many such there are, would rather remain as fixt as a statue from morning till night, than discompose a single hair or alter the position of a pin. Were we to recommend any particular pattern for dress, it would be that which is worn by the people called Quakers. They are always neat, clean, and often elegant, without any thing superfluous. What others lay out upon tawdry laces, ruffles, and ribands, they bestow upon superior cleanliness. Finery is only the affectation of dress, and very often covers a great deal of dirt.

We shall only add, with regard to clothing, that it bught not only to be suited to the climate, the season of he year, and the period of life; but likewise to the temperature and constitution. Robust persons are able to enlure either cold or heat better than the delicate; conseuently may be less attentive to their clothing. But the precise quantity of clothes necessary for any person cannot be determined by reasoning. It is entirely a matter of

OF INTEMPERANCE.

experience, and every man is the best judge for himself what quantity of clothes is necessary to keep him warm *.

CHAP. VII.

OF INTEMPERANCE.

MODERN author † observes, that temperance and exercise are the two best physicians in the world. He might have added, that if these were duly regarded, there would be little occasion for any other. Temperance may justly be called the parent of health ; yet numbers of mankind act as if they thought diseases and death too slow in their progress, and by intemperance and debauch seem as it were to solicit their approach.

The danger of intemperance appears from the very construction of the human body. Health depends on that state of the solids and fluids which fits them for the due performance of the vital functions; and, while these go regularly on, we are sound and well; but whatever disturbs them, necessarily impairs health. Intemperance never fails to disorder the whole animal œconomy; it hurts the digestion, relaxes the nerves, renders the different secretions irregular, vitiates the humours, and occasions numberless diseases.

The analogy between the nourishment of plants and animals afford a striking proof of the danger of intemperance. Moisture and manure greatly promote vegetation; yet an over-quantity of either will entirely destroy it. The best things become burtful, nay destructive, when carried to excess. Hence we learn, that the highest degree of human wisdom consists in regulating our appetites and pas-

102

OF INTEMPERANCE.

sions so as to avoid all extremes. It is that chiefly which entitles us to the character of rational beings. The slave of appetite will ever be the disgrace of human nature.

The Author of Nature hath endued us with various passions, for the propagation of the species, the preservation of the individual, &c. Intemperance is the abuse of these passions; and moderation consists in the proper regulation of them. Men, not contented with satisfying the simple calls of Nature, created artificial wants, and are perpetually in search of something that may gratify them; but imaginary wants can never be gratified. Nature is content with little; but luxury knows no bounds. Hence the epicure, the drunkard, and the debauchee, seldom top in their career, till their money or their constitution ails; then indeed they generally see their error when too ate.

It is impossible to lay down fixt rules with regard to diet, on account of the different constitutions of mankind. The most ignorant person, however, certainly knows what is meant by excess: and it is in the power of every man, if an chuses, to avoid it.

The great rule of diet is to study simplicity. Nature elights in the most plain and simple food, and every aninal, except man, follows her dictates. Man alone riots t large, and ransacks the whole creation in quest of luxries, to his own destruction. An elegant writer * of the ist age speaks thus of intemperance in diet: "For my part, when I behold a fashionable table set out in all its magnificence, I fancy that I see gouts and dropsies, fevers and lethargies, with other innumerable distempers, lying in ambuscade among the dishes."

Nor is intemperance in other things less destructive than diet. How quickly does the immoderate pursuit of caral pleasures, or the abuse of intoxicating liquors, ruin best constitution! Indeed these vices generally go and in hand. Hence it is that we so often behold the otaries of Bacchus and Venus, even before they have arved at the prime of life, worn out with diseases, and hastg with swift pace to an untimely grave. Did men reict on the painful diseases and premature deaths, which

neut and muanic

are daily occasioned by intemperance, it would be sufficient to make them shrink back with horror from the indulgence even of their darling pleasures.

Intemperance does not hurt its votaries alone ; the innocent too often feel the direful effects of it. How many wretched orphans, are to be seen embracing dunghills, whose parents, regardless of the future, spent in riot and debauch what might have served to bring up their offspring in a decent manner? How often do we behold the miserable mother, with her helpless infants, pining in want, while the cruel father is indulging his insatiate appetites ?

Families are not only reduced to misery, but even extirpated by intemperance. Nothing tends so much to prevent propagation, and to shorten the lives of children, as the intemperance of parents. The poor man who labours all day, and at night lies down contented with his humble fare, can boast a numerous offspring, while his pampered lord, sunk in ease and luxury, often languishes without an heir to his ample fortunes. Even states and empires feel the influence of intemperance, and rise or fall as it prevails.

Instead of mentioning the different kinds of intemperance, and pointing out their influence upon health, we shall only, by way of example, make a few observations on one particular species of that vice, viz. the abuse of intoxicating liquors.

Every act of intoxication puts Nature to the expence of a fever, in order to discharge the poisonous draught. When this is repeated almost every day, it is easy to foresee the consequences. That constitution must be strong indeed, which is able long to hold out under a daily fever ! but fevers occasioned by drinking do not always go off in a day; they frequently end in an inflammation of the breast, liver, or brain, and produce fatal effects.

Though the drunkard should not fall by an acute disease, he seldom escapes those of a chronic kind. Intoxicating liquors, when used to excess, weaken the bowels and spoil the digestion; they destroy the power of the nerves, and occasion paralytic and convulsive disorder; they likewise heat and inflame the blood, destroy its balsamic quality, render it unfit for circulation, and the nourishment of the body. Hence obstructions, atrophies, dropsies, and consumptions of the lungs. These are the common ways in which drunkards make their exit. Diseases of this kind, when brought on by hard drinking, seldom admit of a cure.

Many people injure their health by drinking, who seldom get drunk. The continual habit of soaking, as it is called, though its effects be not so violent, is not less pernicious. When the vessels are kept constantly full and upon the stretch, the different digestions can neither be duly performed, nor the humours properly prepared. Hence most people of this character are afflicted with the gout, the gravel, ulcerous sores in the legs, &c. If these disorders do not appear, they are seized with low spirits, hypochondriacal affections, and other symptoms of indigestion.

Consumptions are now so common, that it is thought one-tenth of the inhabitants of great towns die of that disase. Hard drinking is no doubt one of the causes to which we must impute the increase of consumptions. The great quantities of viscid malt liquor drunk by the common beople of England, cannot fail to render the blood sizy and infit for circulation; from whence proceed obstructions, and inflammations of the lungs. There are few great alelrinkers who are not phthisical: nor is that to be wondered it, considering the glutinous and almost indigestible naure of strong ale.

Those who drink ardent spirits or strong wines run still greater hazard; these liquors heat and inflame the blood, and tear the tender vessels of the lungs to pieces; yet so great is the consumption of them in this country, that one vould almost be induced to think that the inhabitants lived upon them *.

* We may form some notion of the immense quantity of ardent spirits onsumed in Great Britain from this circumstance, that in the city of idinburgh and its environs, besides the great quantity of foreign spirits uly entered, and the still greater quantity which is supposed to be smugled, it is computed that above two thousand private stills are constantly inployed in preparing a poisonous liquor called *Molarses*. The common cople have got so universally into the habit of drinking this base spirit, that when a porter or labourer is seen reeling along the streets, they say, that molassed.

0

The habit of drinking proceeds frequently from misfortunes in life. The miserable fly to it for relief. It affords them indeed a temporary ease. But, alas ! this solace is short lived ; and when it is over, the spirits sink as much below their usual tone as they had before been raised above it. Hence a repetition of the dose becomes necessary, and every fresh dose makes way for another, till' the unhappy wretch becomes a slave to the bottle, and at length falls a sacrifice to what at first perhaps was taken only as a medicine. No man is so dejected as the drunkard when his debauch is gone off. Hence it is, that those who have the greatest flow of spirits while the glass circulates freely, are of all others the most melancholy when sober, and often put an end to their own miserable existence in a fit of spleen or ill humour.

Drunkenness not only proves destructive to health, but likewise to the faculties of the mind. It is strange that creatures who value themselves on account of a superior degree of reason to that of brutes, should take pleasure in sinking so far below them. Were such as voluntarily deprive themselves of the use of reason, to continue ever after in that condition, it would seem but a just punishment. Though this be not the consequence of one act of intoxication, it seldom fails to succeed a course of it. By a habit of drinking, the greatest genius is often reduced to a mere idiot *.

Intoxication is peculiarly hurtful to young persons. It heats their blood, impairs their strength, and obstructs their growth; besides, the frequent use of strong liquors

* It is amazing that our improvements in arts, learning, and politeness, have not put the barbarous custom of drinking to excess out of fashion. It is indeed less common in South Britain than it was formerly; but it still prevails very much in the North, where this relic of barbarity is mistaken for hospitality. There no man is supposed to entertain his guests well, who does not make them drunk. Forcing people to drink, is certainly the greatest piece of rudeness that any man can be guilty of. Manliness, complaisance, or mere good-nature, may induce a man to take his glass, if urged to it, at a time when he might as well take poison. The custom of drinking to excess has long been out of fashion in France; and, as it begins to lose ground among the politer part of the English, we hope it will soon be banished from every part of this island.

OF INTEMPERANCE.

in the early part of life destroys any benefit that might arise from them afterwards. Those who make a practice of drinking generous liquors when young, cannot expect to reap any benefit from them as a cordial in the decline of life.

Drunkenness is not only itself a most abominable vice, but is an inducement to many others. There is hardly any crime so horrid that the drunkard will not perpetrate for the love of liquor. We have known mothers sell their children's clothes, the food that they should have eaten, and afterwards even the infants themselves, in order to purchase the accursed draught.

CHAP. VIII.

OF CLEANLINESS.

THE want of cleanliness is a fault which admits of no excuse. Where water can be had for nothing, it is surely in the power of every person to be clean. The continual discharge from our bodies by perspiration, renders frequent change of apparel necessary. Changing apparel greatly promotes the secretion from the skin, so necessary for health. When that matter which ought to be carried off by perspiration, is either retained in the body, or resorbed from dirty clothes, it must occasion diseases.

Diseases of the skin are chiefly owing to want of cleanliness*. They may indeed be caught by infection, or brought on by poor living, unwholesome food, &c. but they will seldom continue long where cleanliness prevails. To the same cause must we impute the various kinds of vernin which infest the human body, houses, &c. These may

* Mr Pot, in his surgical observations, mentions a disease which he calls the chimney-sweeper's cancer, as it is almost peculiar to that unhappy et of people. This he attributes to neglect of cleanliness, and with great justice. I am convinced, that if that part of the body which is the eat of this cruel disease was kept clean by frequent washing, it would never happen. The climbing boys, as they are called, are certainly the nost miserable wretches on the face of the earth; yet for cleaning, chimness no such persons are necessary.

107

always be banished by cleanliness alone, and wherever they abound, we have reason to believe it is neglected.

One common cause of putrid and malignant fevers, is the want of cleanliness. These fevers commonly begin among the inhabitants of close dirty houses, who breathe unwholesome air, take little exercise, and wear dirty clothes. There the infection is generally hatched, which often spreads far and wide, to the destruction of many. Hence cleanliness may be considered as an object of public attention. It is not sufficient that I be clean myself while the want of it in my neighbour affects my health as well as his own. If dirty people cannot be removed as a common nuisance, they ought at least to be avoided as infectious. All who regard their health should keep at a distance even from their habitations.

In places where great numbers of people are collected, cleanliness becomes of the utmost importance. It is well known that infectious diseases are communicated by tainted air. Every thing, therefore, which tends to pollute the air, or spread the infection, ought, with the utmost care to be guarded against. For this reason, in great towns, no filth, of any kind, should be permitted to lie upon the streets. Nothing is more apt to convey infection than the excrements of the diseased.

In many great towns the streets are little better than dunghills, being frequently covered with ashes, dung, and nastiness of every kind. Even slaughter-houses, or killing shambles, are often to be seen in the very centre of great towns. The putrid blood, excrements, &c. with which these places are generally covered, cannot fail to taint the air, and render it unwholesome. How easily might this be prevented by active magistrates, who have it always in their power to make proper laws relative to things of this nature, and to enforce the observance of them ?

We are sorry to say, that the importance of general cleanliness does not seem to be sufficiently understood by the magistrates of most great towns in Britain; though health, pleasure, and delicacy, all conspire to recommend attention to it. Nothing can be more agreeable to the senses, more to the honour of the inhabitants, or more conducive to their health, than a clean town; nor can any thing impress a stranger with a more disrespectful idea of any people than its opposite. Whatever pretensions people may make to learning, politeness, or civilization, we will venture to affirm, that while they neglect cleanliness, they are in a state of barbarity *.

The peasants in most countries seem to hold cleanliness in a sort of contempt. Were it not for the open situation of their houses, they would often feel the bad effects of this disposition. One seldom sees a farm-house without a dunghill before the door, and frequently the cattle and their masters lodge under the same roof. Peasants are likewise extremely careless with respect to change of apparel, keeping their houses, &c. clean. This is merely the effect of indolence and a dirty disposition. Habit may indeed render it less disagreeable to them, but no habit can ever make it salutary to wear dirty clothes or breathe unwholesome air.

As many articles of diet come through the hands of peasants, every method should be taken to encourage and promote habits of cleanliness among them. This, for eximple, might be done by giving a small premium to the person who brings the cleanest and best article of any kind o market, as butter, cheese, &c. and by punishing seterely those who bring it dirty. The same method should be taken with butchers, bakers, brewers, and all who are unployed in preparing the necessaries of life.

In camps the strictest regard should be paid to cleanlitess. By negligence in this matter, infectious diseases are often spread amongst a whole army; and frequently more ie of these than by the sword. The Jews during their neampments in the wilderness, received particular instrucions with respect to cleanliness \ddagger . The rules enjoined them

* In ancient Rome the greatest men did not think cleanliness an obct unworthy of their attention. Pliny says, the *Cloacæ*, or common wers for the conveyance of filth and nastiness from the city, were the eatest of all the public works; and bestows higher encomiums upon arquinius, Agrippa, and others who made and improved them, than on ose who atchieved the greatest conquests.

How traly great does the emperor Trajan appear, when giving direcons to Pliny, his proconsul, concerning the making of a common sewer r the health and convenience of a conquered city ?

+ Thou shalt have a place also without the camp, whither thou shalt

ought to be observed by all in the like situation. Indeed the whole system of laws delivered to that people has a manifest tendency to promote cleanliness. Whoever considers the nature of their climate, the diseases to which they were liable, and their dirty disposition, will see the propriety of such laws.

It is remarkable that, in most eastern countries, cleanliness makes a great part of their religion. The Mahometan, as well as the Jewish religion, enjoins various bathings, washings, and purifications. No doubt these might be designed to represent inward purity ; but they were at the same time calculated for the preservation of health. However whimsical these washings may appear to some, few things would tend more to prevent diseases than a proper attention to many of them. Were every person, for example, after visiting the sick, handling a dead bedy, or touching any thing that might convey infection, to wash before he went into company, or sat down to meat, he would run less hazard either of catching the infection himself, or of communicating it to others.

Frequent washing not only removes the filth and sordes which adhere to the skin, but likewise promotes the perspiration, braces the body, and enlivens the spirits. How refreshed, how cheerful, and agreeable does one feel on being shaved, washed, and shifted ; especially when these offices have been neglected longer than usual !

The eastern custom of washing the feet, though less necessary in this country, is nevertheless a very agreeable piece of cleanliness, and contributes greatly to the preservation of health. The sweat and dirt with which these parts are frequently covered, cannot fail to obstruct the perspiration. This piece of cleanliness would often prevent colds and fevers. Were people careful to bathe their feet and legs in lukewarm water at night, after being exposed to cold or wet through the day, they would seldom experience the ill effects which often proceed from these causes.

A proper attention to cleanliness is no where more ne-

go forth abroad; and thou shalt have a paddle upon thy weapon: and it shall be when thou shalt ease thyself abroad, thou shalt dig therewith, and shalt turn back, and cover that which cometh from thee, &c. Deut. xxii, 12, 13. cessary than on shipboard. If epidemical distempers break out there, no one can be safe. The best way to prevent them, is to take care that the whole company be cleanly in their clothes, bedding, &c. When infectious diseases do break out, cleanliness is the most likely means to prerent their spreading : it is likewise necessary to prevent heir returning afterwards, or being conveyed to other blaces. For this purpose, the clothes, bedding, &c. of he sick ought to be carefully washed, and fumigated with primstone. Infection will lodge a long time in dirty lothes, and afterwards break out in the most terrible maner.

In places where great numbers of sick people are colected together, cleanliness ought to be most religiously bserved. The very smell in such places is often sufficient o make one sick. It is easy to imagine what effect that likely to have upon the diseased. In an hospital or inrmary, where cleanliness is neglected, a person in perct health has a greater chance to become sick, than a ck person has to get well.

Few things are more unaccountable than that neglect, rather dread of cleanliness, which appears among those ho have the care of the sick; they think it almost crimilil to suffer any thing that is clean to come near a person a fever, for example, and would rather allow him to walw in all manner of filth, than change the least bit of his nen. If cleanliness be necessary for persons in health, is certainly more so for the sick. Many diseases may cured by cleanliness alone; most of them might be migated by it; and, where it is neglected, the slightest disders are often changed into the most malignant. The me mistaken care which prompted people to prevent the st admission of fresh air to the sick, seems to have inced them to keep them dirty. Both these destructive judices will, we hope, be soon entirely eradicated.

Cleanliness is certainly agreeable to our nature. We mot help approving it in others, even though we should practise it ourselves. It sooner attracts our regard n even finery itself, and often gains esteem where that s. It is an ornament to the highest as well as the lowstation, and cannot be dispensed with in either. Few

OF CLEANLINESS.

virtues are of more importance to society than general cleanliness. It ought to be carefully cultivated every where; but in populous cities it should be almost revered *.

CHAP. IX.

OF INFECTION.

MANY diseases are infectious. Every person ought therefore, as far as he can, to avoid all communication with the diseased. The common practice of visiting the sick, though often well meant, has many ill consequences. Far be it from us to discourage any act of charity or benevolence, especially towards those in distress ; but we cannot help blaming such as endanger their own or their neighbours lives by a mistaken friendship or an impertinent curiosity.

The houses of the sick, especially in the country, are generally crouded from morning till night with idle visitors. It is customary, in such places, for servants and young people to wait upon the sick by turns, and even to sit up with them all night. It would be a miracle indeed should such always escape. Experience teaches us the danger of this conduct. People often catch fevers in this way, and communicate them to others, till at length they become epidemic.

It would be thought highly improper, for one who had not had the small-pox, to wait upon a patient in that disease; yet many other fevers are almost as infectious as the small-pox, and not less fatal. Some imagine that fer

* As it is impossible to be thoroughly clean without a sufficient quantity of water, we would earnestly recommend it to the magistrates of great towns to be particularly attentive to this article. Most great towns in Britain are so situated as to be easily supplied with water; and those persons who will not make a proper use of it, after it is brought to their hand, certainly deserve to be severely punished. The streets of great towns, where water can be had, ought to be washed every day. This is the only effectual method for keeping them thoroughly clean; and, upon trial, we are persuaded it will be found the cheapest.

Some of the most dreadful diseases incident to human nature might, in my opinion, be entirely eradicated by cleanliness. vers prove more fatal in villages than in great towns, for want of proper medical assistance. This may sometimes be the case; but we are inclined to think it oftener proceeds from the cause above mentioned.

Were a plan to be laid down for communicating infecion, it could not be done more effectually than by the common method of visiting the sick. Such visitors not only endanger themselves and their connections, but likevise hurt the sick. By crowding the house, they render the ir unwholesome, and by their private whispers and dismal countenances disturb the imagination of the patient, and depress his spirits. Persons who are ill, especially in fevers, ught to be kept as quiet as possible. The sight of strange aces, and every thing that disturbs the mind, hurts them.

The common practice in country-places of inviting great numbers of people to funerals, and crowding them into he same apartment where the corpse lies, is another way t spreading infection. The infection does not always die with the patient. Every thing that comes into contact with is body while alive, receives the contagion, and some of nem, as clothes, blankets, &c. will retain it for a long time. Persons who die of infectious disorders ought not to lie ong unburied ; and people should keep as much as possible t a distance from them.

It would tend greatly to prevent the spreading of infecous diseases, if those in health were kept at a proper disance from the sick. The Jewish Legislator, among may other wise institutions for preserving health, has been eculiarly attentive to the means of preventing infection, r defilement as it is called, either from a diseased person r a dead body. In many cases the diseased were to be parated from those in health ; and it was deemed a crime ven to approach their habitations. If a person only touchi a diseased or dead body, he was appointed to wash himif in water, and to keep for some time at a distance from priety.

Infectious diseases are often communicated by clothes. is extremely dangerous to wear apparel which has been orn by the deceased, unless it has been well washed and migated, as infection may lodge a long time in it, and terwards produce very tragical effects. This shews the danger of buying at random the clothes which have been worn by other people.

Infectious disorders are frequently imported. Commerce, together with the riches of foreign climes, bring us also their diseases. These do often more than counterbalance all the advantages of that trade by means of which they are introduced. It is to be regretted, that so little care is commonly bestowed, either to prevent the introduction or spreading of infectious maladies. Some attention indeed is generally paid to the plague; but other diseases pass unregarded.*

Infection is often spread through cities, by jails, hospitals, &c. These are frequently situated in the very middle of populous towns; and when infectious diseases break out in them, it is impossible for the inhabitants to escape. Did magistrates pay any regard to the health of the people, this evil might be easily remedied.

Many are the causes which tend to diffuse infection through populous cities. The whole atmosphere of a large town is one contaminated mass, abounding with various kinds of infection; and must be pernicious to health. The best advice that we can give to such as are obliged to live in large cities is, to chuse an open situation; to avoid narrow, dirty, crowded streets; to keep their own house and offices clean; and to be as much abroad in the open air as their time will permit.

It would tend greatly to prevent the spreading of infectious diseases, were proper nurses every where employed to take care of the sick. This might often save a family;

* Were the tenth part of the care taken to prevent the importation of diseases, that there is to prevent smuggling, it would be attended with many happy consequences. This might easily be done by appointing a physician at every considerable sea-port, to inspect the ship's company, passengers, &c. before they came ashore, and, if any fever or other infectious disorder prevailed, to order the ship to perform a short quarantine, and to send the sick to some hospital or proper place to be cured. He might likewise order all the clothes, bedding, &c. which had been used by the sick during the voyage, to be either destroyed, or thoroughly cleansed by fumigation, &c. before any of it were sent ashore. A scheme of this kind, if properly conducted, would prevent many fevers, and other infectious diseases, from being brought by sailors into sea-port towns, and by this means diffused all over the country.

115

r even a whole town, from being infected by one person. Ve do not mean that people should abandon their friends r relations in distress, but only to put them on their guard gainst being too, much in company with those who are fflicted with diseases of an infectious nature.

Such as wait upon the sick in infectious diseases run ery great hazard. They should stuff their noses with toacco, or some other strong smelling herb, as rue, tansy, r the like. They ought likewise to keep the patient very lean, to sprinkle the room where he lies with vinegar, or ther strong acids, frequently to admit a stream of fresh r into it, and to avoid the smell of his breath as much as ney can. They ought never to go into company without aving changed their clothes and washed their hands; otherise, if the disease be infectious, they will in all probabity carry the contagion along with them. *

However trifling it may appear to inconsiderate persons, e will venture to affirm, that a due attention to those ings which tend to diffuse infection, would be of great aportance in preventing diseases. As most diseases are some degree infectious, no one should continue long ith the sick, except the necessary attendants. I mean ot, however, by this caution, to deter those whose duty office leads them to wait upon the sick, from such a udable and necessary employment.

Many things are in the power of the magistrate which ould tend to prevent the spreading of infection; as the romoting of public cleanliness; removing jails, hospitals, urying grounds, and other places where infection may be enerated, at a proper distance from great towns; † widen-

* There is reason to believe that infection is often conveyed from one ace to another by the carelessness of the faculty themselves. Many ysicians affect a familiar way of sitting upon the patient's bedside, and lding his arm for a considerable time. If the patient has the small-pox, any other infectious disease, there is no doubt but the doctor's hands, othes, &c. will carry away some of the infection ; and, if he goes directto visit another patient without washing his hands, changing his clothes, being exposed to the open air, which is not seldom the case, is it any onder that he should carry the disease along with him? Physicians not ly endanger others, but also themselves, by this practice. And indeed by sometimes suffer for their want of care.

+ The ancients would not suffer even the temples of their gods, where e sick resorted, to be built within the walls of a city.

OF INFECTION.

ing the streets; pulling down useless walls, and taking all methods to promote a free circulation of air through every part of the town, &c. Public hospitals, or proper places of reception for the sick, provided they were kept clean, well ventilated, and placed in an open situation, would likewise tend to prevent the spreading of infection. Such places of reception would prevent the poor, when sick, from being visited by their idle or officious neighbours. They would likewise render it unnecessary for sick servants to be kept in their master's houses. Masters had better pay for having their servants taken care of in an hospital, than run the hazard of having an infectious disease diffused among a numerous family. Sick servants and poor people, when placed in hospitals, are not only less apt to diffuse infection among their neighbours, but have likewise the advantage of being well attended.

We are not, however, to learn that hospitals, instead of preventing infection, may become the means of diffusing it. When they are placed in the middle of great towns; when numbers of patients are crowded together in small apartments; when there is a constant communication kept up between the citizens and the patients; and when cleanliness and ventilation are neglected, they become nests for hatching diseases, and every one who goes into them not only runs a risk of receiving infection himself, but likewise of communicating it to others. This however is not the fault of the hospitals, but of those who have the management of them. It were to be wished, that they were both more numerous, and upon a more respectable footing, as that would induce people to go into them with less reluctance. This is the more to be desired, because most of the putrid fevers and other infectious disorders break out among the poor, and are by them communicated to the better sort. Were proper attention paid to the first appearances of such disorders, and the patients early conveyed to an hospital, we should seldom see a putrid fever, which is almost as infectious as the plague, become epidemic.

116

OF THE PASSIONS.

СНАР. Х.

OF THE PASSIONS.

THE passions have great influence both in the cause and cure of disease. How the mind affects the body, will in all probability ever remain a secret. It is sufficient for us to know, that there is established a reciprocal influence between the mental and corporeal parts, and that whatever injures the one, disorders the other.

Of Anger.

THE passion of *anger* ruffles the mind, distorts the countenance, hurries on the circulation of the blood, and disorders the whole vital and animal functions. It often occasions fevers, and other acute diseases; and sometimes even sudden death. This passion is peculiarly hurtful to the delicate, and those of weak nerves. I have known such persons frequently lose their lives by a violent fit of anger, and would advise them to guard against the excess of this passion with the utmost care.

It is not indeed always in our power to prevent being angry; but we may surely avoid harbouring resentment in our breast. Resentment preys upon the mind, and occasions the most obstinate chronical disorders, which gradually waste the constitution. Nothing shews true greatness of mind more than to forgive injuries; it promotes the peace of society, and greatly conduces to our own ease, health, and felicity.

Such as value health should avoid violent gusts of anger, is they would the most deadly poison. Neither ought they o indulge resentment, but to endeavour at all times to keep heir minds calm and serene. Nothing tends so much to the health of the body as a constant tranquillity of mind.

Of Fear.

THE influence of *fear*, both in occasioning and agravating diseases, is very great. No man ought to be blamed for a decent concern about life; but too great a desire to preserve it is often the cause of losing it. Fear and anxiety, by depressing the spirits, not only dispose us to diseases, but often render those diseases fatal which an undaunted mind would overcome.

Sudden fear has generally violent effects. Epileptic fits, and other convulsive disorders, are often occasioned by it. Hence the danger of that practice, so common among young people, of frightening one another. Many have lost their lives, and others have been rendered miserable, by frolics of this kind. It is dangerous to tamper with the human passions. The mind may easily be thrown into such disorder as never again to act with regularity.

But the gradual effects of fear prove most hurtful.— The constant dread of some future evil, by dwelling upon the mind, often occasions the very evil itself. Hence it comes to pass, that so many die of those very diseases of which they long had a dread, or which had been impressed on their minds by some accident, or foolish prediction. This, for example, is often the case with women in childbed. Many of those who die in that situation are impressed with the notion of their death a long time before it happens; and there is reason to believe that this impression is often the cause of it.

The methods taken to impress the minds of women with the apprehensions of the great *pain* and *peril* of childbirth, are very hurtful. Few women die in labour, though many lose their lives after it; which may be thus accounted for: A woman after delivery, finding herself weak and exhausted, immediately apprehends she is in danger; but this fear seldoms fails to obstruct the necessary evacuations upon which her recovery depends. Thus the sex often fall a sacrifice to their own imaginations, when there would be no danger, did they apprehend none.

It seldom happens that two or three women in a great town die in child-bed, but their death is followed by many others. Every woman of their acquaintance who is with child dreads the same fate, and the disease becomes epidemical by the mere force of imagination. This should induce pregnant women to despise fear, and by all means to avoid those tattling gossips who are continually buzzing in their ears the misfortunes of others. Every thing that may in the least alarm a pregnant or child-bed woman, ought with the greatest care to be guarded against.

Many women have lost their lives in child-bed by the old superstitious custom, still kept up in most parts of Britain, of tolling the parish bell for every person who dies. People who think themselves in danger are very nquisitive; and if they come to know that the bell tolls or one who died in the same situation with themselves, what must be the consequence? At any rate they are upt to suppose that this is the case, and it will often be ound a very difficult matter to persuade them of the conrary.

But this custom is not pernicious to child-bed women only. It is hurtful in many other cases. When low feers, in which it is difficult to support the patient's spirits orevail, what must be the effect of a funeral peal sounding we or six times a day in his ears? No doubt his imaination will suggest that others died of the same disease nder which he labours. This apprehension will have a reater tendency to depress his spirits, than all the cordiis of which medicine can boast will have to raise them.

If this useless piece of ceremony cannot be abolished, to ought to keep the sick as much from hearing it as ossible, and from every other thing that may tend to aurm them. So far however is this from being generally ttended to, that many make it their business to visit the ck, on purpose to whisper dismal stories in their ears. uch may pass for sympathizing friends, but they ought ther to be considered as enemies. All who wish well to the sick ought to keep such persons at the greatest disnce from them.

A custom has long prevailed among physicians, of ognosticating, as they call it, the patient's fate, or forelling the issue of the disease. Vanity no doubt introdud this practice, and still supports it, in spite of common nse and the safety of mankind. I have known a phyian barbarous enough to boast, that he pronounced ore sentences than all his Majesty's judges. Would to God that such sentences were not often equally fatal! It may indeed be alledged, that the doctor does not declare his opinion before the patient. So much the worse. A sensible patient had better hear what the doctor says, than learn it from the disconsolate looks, the watery eyes, and the broken whispers of those about him. It seldom happens, when the doctor gives an unfavourable opinion, that it can be concealed from the patient. The very embarrassment which the friends and attendants shew in diguising what he has said, is generally sufficient to discover the truth.

Kind Heaven has, for the wisest ends, concealed from mortals their fate; and we do not see what right any man has to announce the death of another, especially if such a declaration has a chance to kill him. Mankind are indeed very fond of prying into future events, and seldom fail to solicit the physician for his opinion. A doubtful answer, however, or one that may tend rather to encourage the hopes of the sick, is surely the most safe. This conduct would neither hurt the patient nor the physician. Nothing tends more to destroy the credit of physic than those bold prognosticators, who, by the bye, are generally the most ignorant of the faculty. The mistakes which daily happen in this way are so many standing proofs of human vanity, and the weakness of science.

We readily admit, that there are cases where the physician ought to give intimation of the patient's danger to some of his near connections; though even this ought always to be done with the greatest caution : but it never can be necessary in any case that the whole town and country should know, immediately after the doctor has made his first visit, that he has no hopes of his patient's recovery. Persons whose impertinent curiosity leads them to question the physician, with regard to the fate of his patient, certainly deserve no other than an evasive answer.

The vanity of foretelling the fate of the sick is not peculiar to the faculty. Others follow their example, and those who think themselves wiser than their neighbours often do much hurt in this way. Humanity surely calls upon every one to comfort the sick, and not to add to their affliction by alarming their fears. A friend or even a physician,

OF THE PASSIONS.

nay often do more good by a mild and sympathizing benaviour than by medicine, and should never neglect to dminister that greatest of all cordials, HOPE.

Of Grief.

GRIEF is the most destructive of all the passions. Its ffects are permanent, and when it sinks deep into the nind, it generally proves fatal. Anger and fear, being f a more violent nature, seldom last long; but grief ofen changes into a fixed melancholy, which preys upon ne spirits, and wastes the constitution. This passion light not to be indulged. It may generally be conquered the beginning; but when it has gained strength, all atmpts to remove it are vain.

No person can prevent misfortunes in life : but it shews ue greatness of mind to bear them with serenity. Many ersons make a merit of indulging grief, and when misfornes happen, they obstinately refuse all consolation, till e mind, overwhelmed with melancholy, sinks under e load. Such conduct is not only destructive to health, it inconsistent with reason, religion, and common use.

Change of ideas is as necessary for health as change of osture. When the mind dwells long upon one subject, pecially of a disagreeable nature, it hurts the whole nctions of the body. Hence grief indulged spoils the gestion and destroys the appetite; by which means the irits are depressed, the nerves relaxed, the bowels inted with wind, and the humours, for want of fresh pplies of chyle, vitiated. Thus many an excellent contution has been ruined by a family misfortune, or any ng that occasions excessive grief.

It is utterly impossible, that any person of a dejected nd should enjoy health. Life may indeed be dragged t for a few years; but whoever would live to a good age, must be good-humoured and cheerful. This indeed not altogether in our own power; yet our temper of nd, as well as our actions, depend greatly upon ourres: We can either associate with cheerful or melanily companions, mingle in the amusements and offices

OF THE PASSIONS.

of life, or sit still and brood over our calamities as we choose. These, and many such things, are certainly in our power, and from these the mind generally takes its cast.

The variety of scenes which present themselves to the senses, were certainly designed to prevent our attention from being too long fixed upon any one object. Nature abounds with variety, and the mind, unless fixed down by habit, delights in contemplating new objects. This at once points out the method of relieving the mind in distress. Turn the attention frequently to new objects. Examine them for some time. When the mind begins to recoil, shift the scene. By this means a constant succession of new ideas may be kept up, till the disagreeable ones entirely disappear. Thus travelling, the study of any art or science, reading or writing on such subjects as deeply engage the attention, will sooner expel grief than the most sprightly amusements.

It has already been observed, that the body cannot be healthy unless it be exercised; neither can the mind. Indolence nourishes grief. When the mind has nothing else to think of but calamities, no wonder that it dwells there. Few people who pursue business with attention are hurt by grief. Instead therefore of abstracting ourselves from the world or business, when misfortunes happen, we ought to engage in it, with more than usual attention, to discharge with double diligence the functions of our station, and to mix with friends of a cheerful and social temper.

Innocent amusements are by no means to be neglected. These, by leading the mind insensibly to the contemplation of agreeable objects, help to dispel the gloom which misfortunes cast over it. They make time seem less tedious, and have many other happy effects.

Some persons, when overwhelmed with grief, betake themselves to drinking. This is making the cure worse than the disease. It seldom fails to end in the ruin of fortune, character, and constitution.

Of Love.

LOVE is perhaps the strongest of all the passions; at least, when it becomes violent, it is less subject to the controul either of the understanding or will, than any of the rest. Fear, anger, and several other passions, are necessary for the preservation of the individual, but love is necessary for the continuation of the species itself: it was therefore proper that this passion should be deeply rooted in the human breast.

Though love be a strong passion, it is seldom so rapid n its progress as several of the others. Few persons fall desperately in love all at once. We would therefore advise every one, before he tampers with this passion, to consider well the probability of his being able to obtain the object of his passion. When that is not likely, he should avoid every occasion of increasing it. He ought mmediately to fly the company of the beloved object; to apply his mind attentively to business or study; to take every kind of amusement; and above all, to endeavour, f possible, to find another object which may engage his effections, and which it may be in his power to obtain.

There is no passion with which people are so ready to amper as love, although none is more dangerous. Some nen make love for amusement, others from mere vanity, or on purpose to shew their consequence with the fair. This is perhaps the greatest piece of cruelty which any one can be guilty of. What we eagerly wish for, we easiy credit. Hence the too credulous fair are often betrayed nto a situation which is truly deplorable, before they are ble to discover that the pretented lover was only in jest. But there is no jesting with this passion. When love is ot to a certain height, it admits of no other cure b t he possession of its object, which, in this case, ought always possible to be obtained.*

* The conduct of parents with regard to the disposal of their chilcen in marriage is often very blameable. An advantageous match is the onstant aim of parents; while their children often suffer a real martyrom betwixt their inclinations and duty. The first thing which parents ight to consult in disposing their children, is certainly their inclinations. Vere due regard always paid to these, there would be fewer unhappy

OF THE PASSIONS.

Of Religious Melancholy.

MANY persons of a religious turn of mind behave as if they thought it a crime to be cheerful. They imagine the whole of religion consists in certain mortifications, or denying themselves the smallest indulgence, even of the most innocent amusements. A perpetual gloom hangs over their countenances, while the deepest melancholy preys upon their minds. At length the fairest prospects vanish, every thing puts on a dismal appearance, and those very objects which ought to give delight afford nothing but disgust. Life itself becomes a burden, and the unhappy wretch, persuaded that no evil can equal what he feels, often puts an end to his own miserable existence.

It is great pity that ever religion should be so far perverted, as to become the cause of those very evils which it was designed to cure. Nothing can be better calculated than *True Religion*, to raise and support the mind of its votaries under every affliction that can befal them. It teaches them that even the sufferings of this life are preparatory to the happiness of the next; and that all who persist in a course of virtue shall at length arrive at complete felicity.

Persons whose business it is to recommend religion to others, should beware of dwelling too much on gloomy subjects. That peace and tranquillity of mind, which true religion is calculated to inspire, is a more powerful argument in its favour than all the terrors that can be uttered. Terror may indeed deter men from outward acts of wickedness, but can never inspire them with that love of God, and real goodness of heart, in which alone true religion consists.

To conclude; the best way to counteract the violence of any passion, is to keep the mind closely engaged in some useful pursuit.

couples, and parents would not have so often cause to repent the severity of their conduct, after a ruined constitution, a lost character, or a distracted mind, has shewn them into mistake.

CHAP. XI.

OF THE COMMON EVACUATIONS.

THE principal evacuations from the human body are those by stool, urine, and insensible perspiration. None of those can be long obstructed without impairing the health. When that which ought to be thrown out of the body is oo long retained, it not only occasions a *plethora*, or too great fulness of the vessels, but acquires qualities which re hurtful to health, as acrimony, putrescence, &c.

Of the Evacuation by Stool.

Few things conduce more to health than keeping the ody regular. When the *fieces* lie too long in the bowels, hey vitiate the humours; and when they are too soon ischarged, the body is not sufficiently nourished. A nedium is therefore to be desired, which can only be obnined by regularity in diet, sleep, and exercise. Whenwer the body is not regular, there is reason to suspect a nult in one or other of these.

Persons who eat and drink at irregular hours, and who at various kinds of food, and drink of several different quors at every meal, have no reason to expect either nat their digestion will be good, or their discharges reguur. Irregularity in eating and drinking disturbs every art of the animal œconomy, and never fails to occasion iseases. Either too much or too little will have this efict. The former indeed generally occasions looseness, and the latter costiveness; but both have a tendency to urt the health.

It would be difficult to ascertain the exact number of ools which may be consistent with health, as these difr in the different periods of life, in different constitutions, and even in the same constitution under a different regimen diet, exercise, &c. It is however generally allowed, at one stool a day is sufficient for an adult, and that ss is hurtful. But this, like most general rules, admits of any exceptions. I have known persons in perfect health,

OF THE COMMON EVACUATIONS.

126

who did not go to stool above once a-week. Such a degree of costiveness however is not safe; though the person who labours under it may for some time enjoy tolerable health, yet at length it may occasion diseases.

One method of procuring a stool every day is to rise betimes and go abroad in the open air. Not only the posture in bed is unfavourable to regular stools, but also the warmth. This, by promoting the perspiration, lessens all the other discharges.

The method recommended for this purpose by Mr Locke is likewise very proper, viz. to solicit nature, by going regularly to stool every morning whether one has a call or not.— Habits of this kind may be acquired, which will in time become natural.

Persons who have frequent recourse to medicines for preventing costiveness seldom fail to ruin their constitution. Purging medicines frequently repeated weaken the bowels, hurt the digestion, and every dose makes way for another, till at length they become as necessary as daily bread. Those who are troubled with costiveness ought rather, if possible to remove it by diet than drugs. They should likewise go thinly clothed, and avoid every thing of an astringent or of an heating nature. The diet and other regimen necessary in this case will be found under the article *Costiveness*, where this state of the bowels is treated as a disease.

Such persons as are troubled with a habitual looseness ought likewise to suit their diet to the nature of their complaint. They should use food which braces and strengthens the bowels, and which is rather of an astringent quality, as wheat-bread made of the finest flour, cheese, eggs, rice boiled in milk, &c. Their drink should be red port, claret, brandy and water, in which toasted bread has been boiled, and such like.

As a habitual looseness is often owing to an obstructed perspiration, persons affected with it ought to keep their feet warm, to wear flannel next their skin, and take every other method to promote the perspiration. Further directions with regard to the treatment of this complaint will be found under the article Looseness.

Of Urine.

So many things tend to change both the quantity and ppearances of the urine, that it is very difficult to lay down ny determined rules for judging of either. * Dr Cheyne tys, the urine ought to be equal to three-fourths of the quid part of our aliment. But suppose any one were to the the trouble of measuring both, he would find that very thing which altered the degree of perspiration, would ter this proportion, and likewise the different kinds of iment would afford very different quantities of urine. hough for these, and other reasons, no rule can be given r judging the precise quantity of urine which ought to discharged, yet a person of common sense will seldom the tax a loss to know when it is in either extreme.

As a free discharge of urine not only prevents but actuy cures many diseases, it ought by all means to be prooted; and every thing that may obstruct it should be refully avoided. Both the secretion and discharge of ine are lessened by a sedentary life, sleeping on beds that too soft and warm, food of a dry and heating quality, uors which are astringent and heating, as red port, claret, d such like. Those who have reason to suspect that eir urine is in too small quantity, or who have any symp-

* It has long been an observation among physicians, that the appeares of the urine are very uncertain, and very little to be depended No one will be surprised at this who considers how many ways it y be affected, and consequently have its appearances altered. The sions, the state of the atmosphere, the quantity and quality of the d, the exercise, the clothing, the state of the other evacuations, and aberless other causes, are sufficient to induce a change, either in the ntity or appearance of the urine. Any one who attends to this, will astonished at the impudence of those daring quacks, who pretend to out diseases, and prescribe to patients from the bare inspection of r urine. These impostors, however, are very common all over Britain, by the amazing credulity of the populace, many of them amass conrable fortunes. Of all the medical prejudices which prevail in this atry, that in favour of urine dectors is the strongest. The common ble have still an unlimited faith in their skill, although it has been destrated that no one of them is able to distinguish the urine of a horse, ny other animal, from that of a man.

toms of the gravel, ought not only to avoid these things, but whatever else they find has a tendency to lessen the quantity of their urine.

When the urine is too long retained, it is not only resorbed, or taken up again into the mass of fluids, but by stagnating in the bladder it becomes thicker, the more watery parts flying off first, and the more gross and earthy remaining behind. By the constant tendency which these have to concrete, the formation of stones and gravel in the bladder is promoted. Hence it comes to pass, that indolent and sedentary people are much more liable to those diseases, than persons of a more active life.

Many persons have lost their lives, and others have brought on very tedious, and even incurable disorders, by retaining their urine too long, from a false delicacy. When the bladder has been over-distended, it often loses its power of action altogether, or becomes paralytic, by which means it is rendered unable either to retain the urine, or expet it properly. The calls of Nature ought never to be postponed. Delicacy is doubtless a virtue, but that can never be reckoned true delicacy, which induces any one to risk his health or hazard his life.

But the urine may be in too great as well as too small a quantity. This may be occasioned by drinking large quantities of weak watery liquors, by the excessive use of alkaline salts, or any thing that stimulates the kidnies, dilutes the blood, &c. This disorder very soon weakens the body, and induces a consumption. It is difficult to cure, but may be mitigated by strengthening diet and astringent medicines, such as are recommended under the article Diabetes, or excessive discharge of urine.

Of the Perspiration.

INSENSIBLE perspiration is generally reckoned the greatest of all the discharges from the human body. It is of so great importance to health, that few diseases attack us while it goes properly on; but when it is obstructed, the whole frame is soon disordered. This discharge, however, being less perceptible than any of the rest, is consequently less attended to. Hence it is, that acute fevers, rheuma-

128

•

PART II.

DISEASES.

OF

CHAP. XII.

F THE KNOWLEDGE AND CURE OF DISEASES.

HE knowledge of diseases does not depend so much upon scientific principles as many imagine. It is chiefly e result of experience and observation. By attending e sick, and carefully observing the various occurrences diseases, a great degree of accuracy may be acquired, oth in distinguishing their symptoms, and in the applicaon of medicines. Hence sensible nurses, and other perins who wait upon the sick, often discover a disease soont than those who have been bred to physic. We do not wever mean to insinuate that a medical education is of use : it is doubtless of the greatest importance ; but it n never supply the place of observation and experience. Every disease may be considered as an assemblage of mptoms, and must be distinguished by those which : most obvious and permanent. Instead, therefore, of ving a classical arrangement of diseases, according to e systematic method, it will be more suitable, in a permance of this nature, to give a full and accurate descripn of each particular disease as it occurs; and, where y of the symptoms of one disease have a near resemblance those of another, to take notice of that circumstance, and the same time to point out the peculiar or characteristic nptoms by which it may be distinguished. By a due ention to these, the investigation of diseases will be found be a less difficult matter than most people would at first ready to imagine.

A proper attention to the patient's age, sex, temper of nd, constitution, and manner of life, will likewise greatassist, both in the investigation and treatment of dises.

 \mathbf{S}

In childhood the fibres are lax and soft, the nerves extremely irritable, and the fluids thin; whereas in old age the fibres are rigid, the nerves become almost insensible, and many of the vessels imperviable. These and other peculiarities render the diseases of the young and aged very different, and of course they must require a different method of treatment.

Females are liable to many diseases which do not afflict the other sex : besides, the nervous system being more irritable than in men, their diseases require to be treated with greater caution. They are less able to bear large evacuations; and all stimulating medicines ought to be administered to them with a sparing hand.

Particular constitutions not only dispose persons to peculiar diseases, but likewise render it necessary to treat these diseases in a peculiar manner. A delicate person, for example, with weak nerves, who lives mostly within doors, must not be treated, under any disease, precisely in the same manner as one who is hardy and robust, and who is much exposed to the open air.

The temper of mind ought to be carefully attended to in diseases. Fear, anxiety, and a fretful temper, both occasion and aggravate diseases. In vain do we apply medicines to the body to remove maladies which proceed from the mind. When it is affected, the best medicine is to sooth the passions, to divert the mind from anxious thought, and to keep the patient as easy and cheerful as possible.

Attention ought likewise to be paid to the climate, or place where the patient lives, the air he breathes, his diet, &c. Such as live in low marshy situations are subject to many diseases which are unknown to the inhabitants of high countries. Those who breathe the impure air of cities, have many maladies to which the more happy, rustics are entire strangers. Persons who feed grossly, and indulge in strong liquors, are liable to diseases which do not affect the temperate and abstemious, &c.

It has already been observed, that the different occupations and situations in life dispose men to peculiar diseases. It is therefore necessary to inquire into the patient's occupation, manuer of life, &c. This will not only assist us

AND CURE OF DISEASES.

i finding out the disease, but will likewise direct us in the eatment of it. It would be very imprudent to treat the borious and the sedentary precisely in the same manner, ren supposing them to labour under the same disease.

It will likewise be proper to inquire, whether the disease constitutional or accidental; whether it has been of long short duration; whether it proceeds from any great and dden alteration in the diet, manner of life, &c. The state the patient's body, and of the other evacuations, ought so to be inquired into; and likewise whether he can with se perform all the vital and animal functions, as breathg, digestion, &c.

Lastly, it will be proper to inquire what diseases the pant has formerly been liable to, and what medicines were ost beneficial to him; if he has a strong aversion to any rticular drug, &c.

As many of the indications of cure may be answered by et alone, it is always the first thing to be attended to in e treatment of diseases. Those who know no better, imane that every thing which goes by the name of a medicine ssesses some wonderful power or secret charm, and think, the patient swallows enough of drugs, that he must do II. This mistake has many ill consequences ; it makes ople trust to drugs, and neglect their own endeavours ; sides, it discourages all attempts to relieve the sick where bdicines cannot be obtained.

Medicines are no doubt useful in their place; and, when ministered with prudence, they may do much good; but ien they are put in the place of every thing else, or admitered at random, which is not seldom the case, they must mischief. We would therefore wish to call the attenn of mankind from the pursuit of secret medicines, to the things as they are acquainted with. The proper relation of these may often do much good, and there is le danger of their ever doing hurt.

Every disease weakens the digestive powers. The diet ght therefore, in all diseases, to be light and of easy estion. It would be as prudent for a person with a ken leg to attempt to walk, as for one in a fever to the same kind of food, and in the same quantity, as en he was in perfect health. Even abstinence alone

S 2

139

will often cure a fever, especially when it has been occasioned by excess in eating or drinking.

In all fevers attended with inflammation, as pleurisies, peripneumonies, &c. thin gruels, wheys, watery infusions of mucilaginous plants, roots, &c. are not only proper for the patient's food, but they are likewise the best medicines which can be administered.

In fevers of a slow, nervous, or putrid kind, where there are no symptoms of inflammation, and where the patient must be supported with cordials, that intention can always be more effectually answered by nourishing diet and generous wines, than by any medicines yet known.

Nor is a proper attention to diet of less importance in chronic than in acute diseases. Persons afflicted with low spirits, wind, weak nerves, any other hypochondriacal affections, generally find more benefit from the use of solic food and generous liquors, than from all the cordial and carminitive medicines which can be administered to them.

The scurvy, that most obstinate malady, will soone yield to a proper vegetable diet, than to all the boasted an tiscorbutic remedies of the shops.

In consumptions, when the humours are vitiated, and the stomach so much weakened as to be unable to diges the solid fibres of animals, or even to assimilate the juic of vegetables, a diet consisting chiefly of *milk* will not only support the patient, but will often cure the disease afte every other medicine has failed.

Nor is an attention to other things of less importance than to diet. The strange infatuation which has long in duced people to shut up the sick from all communication with the external air, has done great mischief. Not only in fevers, but in many other diseases, the patient will re ceive more benefit from having the fresh air prudently ad mitted into his chamber, than from all the medicines which can be given him.

Exercise may likewise in many cases be consider ed as a medicine. Sailing, or riding on horseback for example, will be of more service in the cure o consumptions, glandular obstructions, &c. than any me dicine yet known. In diseases which proceed from a re axed state of the solids, the cold bath, and other parts of the gymnastic regimen, will be found equally beneficial.

Few things are of greater importance in the cure of dieases than cleanliness. When a patient is suffered to lie n dirty clothes, whatever perspires from his body is again esorbed, or taken up into it, which serves to nourish the lisease and increase the danger. Many diseases may be ured by cleanliness alone : most of them may be mitigated by it, and in all of them it is highly necessary, both for he patient and those who attend him.

Many other observations, were it necessary, might be dduced to prove the importance of a proper regimen in liseases. Regimen will often cure diseases without melicine, but medicine will seldom succeed where a proper egimen is neglected. For this reason, in the treatment of diseases, we have always given the first place to reginen. Those who are ignorant of medicine may confine hemselves to it only. For others who have more knowedge, we have recommended some of the most simple out approved forms of medicine in every disease. These owever are never to be administered but by people of beter understanding; nor even by them without the greatst precaution.

CHAP. XIII.

OF FEVERS IN GENERAL.

A S more than one half of mankind is said to perish by fevers, it is of importance to be acquainted with their auses. The most general causes of fevers are, infection, rors in diet, unwholesome air, violent emotions of the mind, rcess, or suppression of useful evacuations, external or interal injuries, and extreme degrees of heat or cold. As most f these have already been treated of at considerable length, nd their effects shewn, we shall not now resume the conderation of them, but shall only recommend it to all, as they would wish to avoid fevers and other fatal diseases, to pay the most punctual attention to these articles.

Fevers are not only the most frequent of all diseases, but they are likewise the most complex. In the most simple species of fever there is always a combination of several different symptoms. The distinguishing symptoms of fever are, *increased heat*, *frequency of pulse*, *loss of appetite*, *general debility*, *pain in the head*, and *a difficulty in performing some of the vital or animal functions*. The other symptoms usually attendant on fevers are, nauseau, thirst, anxiety, delirium, weariness, wasting of the flesh, want of sleep, or the sleep disturbed and not refreshing.

When the fever comes on gradually, the patient generally complains first of langour or listlessness, soreness of the flesh, or the bones, as the country people express it, heaviness of the head, loss of appetite, sickness, with clamminess of the mouth; after some time come on, excessive heat, violent thirst, restlessness, &c.

When the fever attacks suddenly, it always begins with an uneasy sensation of excessive cold, accompanied with debility and loss of appetite; frequently the cold is attended with shivering, oppression about the heart, and sickness at stomach, or vomiting.

Fevers are divided into continual, remitting, intermitting, and such as are attended with cutaneous eruption or topical inflammation, as the small pox, erysipelas, &c. By a continual fever is meant that which never leaves the patient during the whole course of the disease, or which shews no remarkable increase or abatement in the symptoms. This kind of fever is likewise divided into acute, slow, and malignant. The fever is called *acute* when its progress is quick, and the symptoms violent; but when these are more gentle, it is generally denominated *slow*. When livid or petechial spots shew a putrid state of the humours, the fever is called *malignant*, *putrid*, *petechial*.

A remitting fever differs from a continual only in a degree. It has frequent increases and decreases, or exacerbations and remissions, but never wholly leaves the patient during the course of the disease. Intermitting fevers or agues are those which, during the time that the patient may be said to be ill, have evident intervals or remissions of the symptoms.

As a fever is only an effort of Nature to free herself from in offending cause, it is the business of those who have he care of the sick to observe with diligence which way Nature points, and to endeavour to assist her operations. Our bodies are so framed, as to have a constant tendency o expel or throw off whatever is injurious to health. This s generally done by urine, sweat, stool, expectoration, yomit, or some other evacuation.

There is reason to believe, if the efforts of Nature, at he beginning of a fever, were duly attended to and pronoted, it would seldom continue long; but when her atempts are either neglected or counteracted, it is no wonler if the disease proves fatal. There are daily instances of persons who, after catching cold, have all the symptoms of a beginning fever; but by keeping warm, drinking diuting liquors, bathing their feet in warm water, &c. the ymptoms in a few hours disappear, and the danger is prevented. When fevers of a putrid kind threaten, the oest method of obviating their effects is by repeated vomits. Our design is not to enter into a critical inquiry into he nature and immediate causes of fevers, but to mark heir most obvious symptoms, and to point out the proper reatment of the patient with respect to his diet, drink, air, aze. in the different stages of the disease. In these articles he inclinations of the patient will in a great measure diect our conduct.

Almost every person in a fever complains of great thirst, nd calls out for drink, especially of a cooling nature. This at once points out the use of water, and other coolng liquors. What is so likely to abate the heat, attenuate he humours, remove spasms and obstructions, promote erspiration, increase the quantity of urine, and in short roduce every salutary effect in an ardent or inflammatory ever, as drinking plentifully of water, thin gruel, or any ther weak liquor, of which water is the basis? The neessity of diluting liquors is pointed out by the dry tongue, he parched skin, and the burning heat, as well as by the inquenchable thirst of the patient.

Many cooling liquors, which are extremely grateful to

patients in a fever, may be prepared from fruit, as decoctions of tamarinds, apple-tea, orange-whey, and the like. Mucilaginous liquors might also be prepared from marshmallow roots, linseed, lime-tree buds, and other mild vegetables. These liquors, especially when acidulated, are highly agreeable to the patient, and should never be denied him.

At the beginning of a fever the patient generally complains of great lassitude or weariness, and has no inclination to move. This evidently shews the propriety of keeping him easy, and if possible in bed. Lying in bed relaxes the spasms, abates the violence of the circulation, and gives nature an opportunity of exerting all her force to overcome the disease. The bed alone would often remove a fever at the beginning; but when the patient struggles with the disease, instead of driving it off, he only fixes it the deeper, and renders it more dangerous. This observation is too often verified in travellers, who happen when on a journey to be seized with a fever. Their anxiety to get home induces them to travel with the fever upon them, which conduct seldom fails to render it fatal.

In fevers, the mind as well as the body should be kept easy. Company is seldom agreeable to the sick. Indeed every thing that disturbs the imagination increases the disease; for which reason every person in a fever ought to be kept perfectly quiet, and neither allowed to see nor hear any thing that may in the least affect or discompose his mind.

Though the patient in a fever has the greatest inclination for drink, yet he seldom has any appetite for solid food; hence the impropriety of urging him to take victuals is evident. Much solid food in a fever is every way hurtful. It oppresses nature, and instead of nourishing the patient, serves only to feed the disease. What food the patient takes should be in small quantity, light, and of easy digestion. It ought to be chiefly of the vegetable kind, as panada, roasted apples, gruels, and such like.

Poor people, when any of their family are taken ill, run directly to their rich neighbours for cordials, and pour wine, spirits, &c. into the patient, who perhaps never had been accustomed to taste such liquors when in health.

OF THE COMMON EVACUATIONS.

isms, agues, &c. often proceed from obstructed perspiraion before we are aware of its having taken place.

On examining patients, we find most of them impute heir diseases either to violent colds which they had caught, or to slight ones which had been neglected. For this reaon, instead of a critical inquiry into the nature of the perpiration, its difference in different seasons, climates, con titutions, &c. we shall endeavour to point out the causes which most commonly obstruct it, and to shew how far ney may be either avoided or have their influence counpracted by timely care. The want of a due attention to nese, costs Britain annually some thousands of useful lives.

Changes in the Atmosphere.

ONE of the most common causes of obstructed perspiraon, or catching cold, in this country, is the changeableess of the weather, or state of the atmosphere. There is place where such changes happen more frequently than Great Britain. With us the degrees of heat and cold ee not only very different in the different seasons of the par, but often change almost from one extreme to another a few days, and sometimes even in the course of one y. That such changes must affect the state of the periration is obvious to every one *.

The best method of fortifying the body against the chans of the weather, is to be abroad every day. Those no keep most within doors are most liable to catch cold. ch persons generally render themselves so delicate as to el even the slightest changes in the atmosphere, by their ins, coughs, and oppressions of the breast, &c. they beme a kind of living barometers.

^{*} I never knew a more remarkable instance of the uncertainty of the ther in this country, than happened while I was writing these notes. is morning, August 14. 1783. the thermometer in the shade was down ifty-three degrees, and a very few days ago it stood above eighty. No who reflects on such great and sudden changes in the atmosphere, will surprised to find colds, coughs, rheums, with other affections of the ast and bowels, so common in this country.

It is very agreeable after a warm day to be abroad and

Wet Clothes.

WET clothes not only by their coldness obstruct the perspiration, but their moisture, by being absorbed, or taken up into the body, greatly increases the danger. The most robust constitution is not proof against the danger arising from wet clothes; they daily occasion fevers, rheumatisms, and other fatal disorders, even in the young and healthy.

It is impossible for people who go frequently abroad to avoid sometimes being wet. But the danger might generally be lessened, if not wholly prevented, by changing their clothes soon; when this cannot be done, they should keep in motion till they be dry. So far are many from taking this precaution, that they often sit or lie down in the fields with their clothes wet, and frequently sleep even whole nights in this condition. The frequent instances which we have of the fatal effects of this conduct, ought certainly to deter others from being guilty of it.

Wet Feet.

EVEN wet feet often occasion fatal diseases. The colic, inflammations of the breast and of the bowels, the iliac passion, *cholera morbus*, &c. are often occasioned by wet feet. Habit will, no doubt, render this less dangerous; but it ought, as far as possible, to be avoided. The delicate, and those who are not accustomed to have their clothes and feet wet, should be peculiarly careful in this respect.

Night Air.

THE perspiration is often obstructed by night air ; even in summer, this ought to be avoided. The dews which fall plentifully after the hottest day, make the night more dangerous than when the weather is cool. Hence, in warm countries, the evening dews are more hurtful than where the climate is more temperate.

It is very agreeable after a warm day to be abroad in the

cool evening; but this is a pleasure to be avoided by all who value their health. The effects of evening dews are gradual, indeed, and almost imperceptible; but they are not the less to be dreaded : we would therefore advise travellers, labourers, and all who are much heated by day, carefully to avoid them. When the perspiration has been great, these become dangerous in proportion. By not attending to this, in flat marshy countries, where the exhalations and dews are copious, labourers are often seized with intermitting fevers, quinseys, and other dangerous liseases.

Damp Beds.

BEDS become damp, either from their not being used, standing in damp houses, or in rooms without fire. Nohing is more to be dreaded by travellers than damp beds, which are very common in all places where fuel is scarce. When a traveller, cold and wet, arrives at an inn, he may py means of a good fire, warm diluting liquor, and a dry oed, have the perspiration restored ; but if he be put into cold room, and laid on a damp bed, it will be more obtructed, and the worst consequences will ensue. Travelers should avoid inns which are noted for damp beds, as hey would a house infected with the plague, as no man, nowever robust, is proof against the danger arising from hem.

But inns are not the only places where damp beds are o be met with. Beds kept in private families for the eception of strangers are often equally dangerous. All inds of linen and bedding, when not frequently used, ecome damp. How then is it possible that beds, which re not slept in above two or three times a year, should e safe? Nothing is more common than to hear people omplain of having caught cold by changing their bed. The reason is obvious : were they careful never to sleep in bed but what was frequently used, they would seldom nd any ill consequences from a change.

Nothing is more to be dreaded by a delicate person then on a visit, than being laid in a bed which is kept on urpose for strangers. That ill-judged piece of complai-

sance becomes a real injury. All the bad consequences from this quarter might easily be prevented in private families, by causing their servants to sleep in the spare beds, and resign them to strangers when they come. In inns where the beds are used almost every night, nothing else is necessary than to keep the rooms well seasoned by frequent fires, and the linen dry.

That baneful custom said to be practised in many inns, of damping sheets, and pressing them in order to save washing, and afterwards laying them on the beds, ought, when discovered, to be punished with the utmost severity. It is really a species of murder, and will often prove as fatal as poison or gun-shot. Indeed, no linen, especially if it has been washed in winter, ought to be used till it has been exposed for some time to the fire; nor is this operation less necessary for linen washed in summer, provided it has lain by for any length of time. This caution is the more needful, as gentlemen are often exceedingly attentive to what they eat or drink at an inn, yet pay no regard to a circumstance of much more importance *.

Damp Houses.

DAMP houses frequently produce the like ill consequences; for this reason, those who build should be careful to chuse a dry situation. A house which stands on a damp marshy soil or deep clay, will never be thoroughly dry. All houses, unless where the ground is exceeding dry, should have the first floor a little raised. Servants and others, who are obliged to live in cellars and sunk stories, seldom continue long in health : masters ought surely to pay some regard to the health of their servants, as well as to their own.

Nothing is more common than for people, merely to avoid some trifling inconveniency, to hazard their lives, by inhabiting a house almost as soon as the masons,

* If a person suspects that his bed is damp, the simple precaution of taking off the sheets and lying in the blankets, with all, or most of his clothes on, will prevent all the danger. I have practised this for many years, and never have been hurt by damp beds, though no constitution, without care, is proof against their baneful influence.

plasterers, &c. have done with it : such houses are not nly dangerous from their dampness, but likewise from he smell of lime, paint, &c. The asthmas, consumptions, nd other diseases of the lungs, so incident to people who york in these articles, are sufficient proofs of their being nwholesome.

Rooms are often rendered damp by an unseasonable siece of cleanliness; I mean the pernicious custom of vashing them immediately before company is put into hem. Most people catch cold, if they sit but a very short me in a room that has been lately washed; the delicate aught carefully to avoid such a situation, and even the obust are not always proof against its influence.*

Sudden Transitions from Heat to Cold.

THE perspiration is commonly obstructed by SUDDEN RANSITIONS from heat to cold. Colds are seldom aught, unless when people have been too much heated. leat rarifies the blood, quickens the circulation, and inceases the perspiration; but when these are suddenly necked, the consequences must be bad. It is indeed impossible for labourers not to be too hot upon some occasions; aut it is generally in their power to let themselves cool gramally, to put on their clothes when they leave off work, a make choice of a dry place to rest themselves in, and avoid sleeping in the open fields. These easy rules, if oserved, would often prevent fevers and other fatal disrders.

It is very common for people, when hot, to drink freeof cold water, or small liquors. This conduct is exemely dangerous. Thirst indeed is hard to bear, and the inclination to gratify that appetite frequently gets the etter of reason, and makes us do what our judgment disproves. Every peasant, however, knows, if his horse is permitted to drink his bellyfull of cold water after olent exercise, and be immediately put into the

* People imagine if a good fire is made in a room after it has been wash, that there is no danger from sitting in it; but they must give me we to say, that this increases the danger. The evaporation excited the fire generates cold, and renders the damp more active.

stable, or suffered to remain at rest, that it will kill him. This they take the utmost care to prevent. It were well if they were equally attentive to their own safety.

Thirst may be quenched many ways without swallowing large quantities of cold liquor. The fields afford variety of acid fruits and plants, the very chewing of which would abate thirst. Water kept in the mouth for some time, and spit out again, if frequently repeated, will have the same effect. If a bit of bread be caten along with a few mouthfuls of water, it will quench thirst more effectually. and make the danger less. When a person is extremely hot, a mouthful of brandy, or other spirits, if it can be obtained, ought to be preferred to any thing else. But if any one has been so foolish, when hot, as to drink freely of cold liquor, he ought to continue his exercise at least till what he drank be thoroughly warmed upon his stomach.

It would be tedious to enumerate all the bad effects which flow from drinking cold liquors when the body is hot. Sometimes this has occasioned immediate death.— Hoarseness, quinseys, and fevers of various kinds, are its common consequences. Neither is it safe, when warm, to eat freely of raw fruits, sallads, or the like. These, indeed, have not so sudden an effect on the body as cold liquors, but they are notwithstanding dangerous, and ought to be avoided.

Sitting in a warm room, and drinking hot liquors till the pores are quite open, and immediately going into the cold air, is extremely dangerous. Colds, coughs, and inflammations of the breast, are the usual effects of this conduct: yet nothing is more common than for people, after they have drunk warm liquors for several hours, to walk or ride a number of miles in the coldest night, or to ramble in the streets.*

People are very apt, when a room is hot, to throw open

* The tap-rooms in London and other great towns, where such numbers of people spend their evenings, are highly pernicious. The breath of a number of people crowded into a low apartment, with the addition of fires, candles, the smoke of tobacco, and the fumes of hot liquor, &c. must not only render it hurtful to continue in such places, but dangerous to go out of them into a cold and chilly atmosphere.

window, and to sit near it. This is a most dangerous ractice. Any person had better sit without doors than in ach a situation, as the current of air is directed against ne particular part of the body. Inflammatory fevers and onsumptions have often been occasioned by sitting or anding thinly clothed near an open window. Nor is eeping with open windows less to be dreaded. That ought ever to be done, even in the hottest season, unless the winow is at a distance. I have known mechanics frequently ontract fatal diseases, by working stript at an open window; ad would advise all of them to beware of such a practice: Few things expose people more to catch cold than keepg their own houses too warm ; such persons may be said live in a sort of hot houses; they can hardly stir abroad visit a neighbour, but at the hazard of their lives .----Fere there no other reason for keeping houses moderately ool, that alone is sufficient: but no house that is too ot can be wholesome ; heat destroys the spring and elastity of the air, and renders it less fit for expanding the ings, and the other purposes of respiration. Hence it that consumptions and other diseases of the lungs prove fatal to people who work in forges, glass-houses, and ee like.

Some are even so fool-hardy, as to plunge themselves nen hot in cold water. Not only fevers, but madness elf, has frequently been the effect of this conduct. Ined it looks too like the action of a madman to deserve a rious consideration.

The result of all these observations is, that every one ght to avoid, with the utmost attention, all sudden nsitions from heat to cold, and to keep the body in as iform a temperature as possible; or, where that cannot done, to take care to let it cool gradually.

People may imagine that too strict an attention to these ngs would tend to render them delicate. So far, hower, is this from being my design, that the very first rule pposed for preventing colds, is to harden the body, by uring it daily to the open air.

t, by giving an abstract of the justly celebrated advice Celsus, with respect to the preservation of health.----

"A man," says he, " who is blessed with good health " should confine himself to no particular rules, either with " respect to regimen or medicine. He ought frequently " to diversify his manner of living; to be sometimes in " town, sometimes in the country ; to hunt, sail, indulge " himself in rest, but more frequently to use exercise. He " ought to refuse no kind of food that is commonly used, " but sometimes to eat more and sometimes less; some-" times to make one at an entertainment, and sometimes " to forbear it; to make rather two meals a-day than one. " and always to eat heartily, provided he can digest it .--" He ought neither too eagerly to pursue, nor too scrupu-" lously to avoid, intercourse with the fair sex : pleasures " of this kind, rarely indulged, render the body alert and " active; but, when too frequently repeated, weak and lan-" guid. He should be careful in time of health not to de-" stroy, by excesses of any kind, that vigour of constitu-" tion which should support him under sickness."

a tool discounter composes of respiration, editoric in

e are precised to planty, as to plange themselves

boks too his the notion of multiman to describe a

characteries as soon bless or -v here that caused

and the abartics of the justice combining a pin

OF FEVERS IN GENERAL.

there be any degree of fever, this conduct must increase , and if there be none, this is ready to raise one. Stuffing ne patient with sweatmeats and other delicacies is likewise ery pernicious. These are always harder to digest than mmon food, and cannot fail to hurt the stomach.

Nothing is more desired by a patient in a fever than esh air. It not only removes his anxiety, but cools the ood, revives the spirits, and proves every way benecial. Many patients are in a manner stifled to death in vers for want of fresh air; yet such is the unaccountble infatuation of most people, that the moment they ink a person in a fever, they imagine he should be kept a close chamber, into which not one particle of fresh must be admitted. Instead of this, their ought to be a instant stream of fresh air into a sick person's chamber, as to keep it moderately cool. Indeed its degree of armth ought never to be greater than is agreeable to one perfect health.

Nothing spoils the air of a sick person's chamber, or its the patient more, than a number of people breathing it. When the blood is inflamed, or the humours in a trid state, air that has been breathed repeatedly will eatly increase the disease. Such air not only loses its ring, and becomes unfit for the purpose of respiration, it acquires a noxious quality, which renders it in a manr poisonous for the sick.

In fevers, when the patient's spirits are low and depress-, he is not only to be supported with cordials, but every ethod should be taken to cheer and comfort his mind. any, from a mistaken zeal, when they think a person in nger, instead of solacing his mind with the hopes and nsolations of religion, fright him with the views of hell damnation. It would be unsuitable here to dwell upon impropriety and dangerous consequences of this conct; it often hurts the body, and there is reason to believe dom benefits the soul.

Among common people, the very name of a fever gerally suggests the necessity of bleeding. This notion ms to have taken its rise from most fevers in this counhaving been formerly of an inflammatory nature ; but is inflammatory fevers are now seldom to be met with.

Sedentary occupations, and a different manner of living, have so changed the state of diseases in Britain, that there is now hardly one fever in ten where the lancet is necessary. In most low, nervous, and putrid fevers, which are now so common, bleeding is really hurtful, as it weakens the patient, sinks his spirits, &c. We would recommend this general rule, never to bleed at the beginning of a fever, unless their be evident signs of inflammation. Bleeding is an excellent medicine when necessary, but should never be wantonly performed.

It is likewise a common notion, that sweating is always necessary in the beginning of a fever. When the fever proceeds from an obstructed perspiration, this notion is not ill-founded. If the patient only lies in bed, bathes his feet and legs in warm water, and drinks freely of watergruel, or any other weak diluting liquor, he will seldom fail to perspire freely. The warmth of the bed, and the diluting drink, will relax the universal spasm, which generally affects the skin at the beginning of a fever; it will open the pores, and promote the perspiration, by means of which the fever may often be carried off. But instead of this, the common practice is to heap clothes upon the patient, and to give him things of a hot nature, as spirits, spiceries, &c. which fire his blood, increase the spasms, and render the disease more dangerous.

In all fevers a proper attention should be paid to the patient's longings. These are the calls of Nature, and often point out what may be of real use. Patients are not indeed to be indulged in every thing that the sickly appetite may crave; but it is generally right to let them have a little of what they eagerly desire, though it may not seem altogether proper. What the patient longs for, his stomach will generally digest; and such things have sometimes a very happy effect.

When a patient is recovering from a fever, great care is necessary to prevent a relapse. Many persons, by too soon imagining themselves well, have lost their lives, or contracted other diseases of an obstinate nature. As the body after a fever is weak and delicate, it is necessary to guard against catching cold. Moderate exercise in the open air will be of use, but great fatigue is by all means to

OF INTERMITTING FEVERS.

e avoided ; agreeable company will also have a good efct. The diet must be light, but nourishing. It should e taken frequently, but in small quantities. It is dangeris at such a time to eat as much as the stomach may crave.

CHAP. XIV.

OF INTERMITTING FEVERS, OR AGUES.

NTERMITTING fevers afford the best opportunity both of observing the nature of a fever, and also the effects of edicine. No person can be at a loss to distinguish an inmitting fever from any other, and the proper medicine it is now almost universally known.

The several kinds of intermitting fevers take their names im the period in which the fit returns, as quotidian, tern, quartan, &c.

CAUSES .- Agues are occasioned by effluvia from trid stagnating water. This is evident from their aboundin rainy seasons, and being most frequent in countries ere the soil is marshy, as in Holland, the Fens of Camdgeshire, the Hundreds of Essex, &c. This disease y also be occasioned by eating too much stone fruit, by oor watery diet, damp houses, evening dews, lying on the damp ground, watching, fatigue, depressing sions, and the like. When the inhabitants of a high ntry remove to a low one, they are generally seized h intermitting fevers, and to such the disease is most to prove fatal. In a word, whatever relaxes the solids, inishes the perspiration, or obstructs the circulation in capillary or small vessels, disposes the body to agues. YMPTOMS .- An intermitting fever generally begins 1 a pain of the head and loins, weariness of the limbs, ness of the extremities, stretching, yawning, with etimes great sickness and vomiting ; to which succeed ering and violent shaking. Afterwards the skin bees moist, and a profuse sweat breaks out, which gelly terminates the fit or paroxysm. Sometimes indeed disease comes on suddenly, when the person thinks self in perfect health; but it is more commonly preceded by listlessness, loss of appetite, and the symptome mentioned above.

REGIMEN.—While the fit continues, the patient ought to drink freely of water gruel, orange-whey, weak camomile tea; or, if his spirits be low, small wine-whey, sharpened with the juice of lemon. All his drink should be warm, as that will assist in bringing on the sweat, and consequently shorten the paroxysm *.

Between the paroxysms the patient must be supported with food that is nourishing, but light and easy of digestion, as veal or chicken broths, sago, gruel with a little wine, light puddings, and such like. His drink may be small negus, acidulated with the juice of lemons or oranges, and sometimes a little weak punch. He may likewise drink infusions of bitter herbs, as camomile, wormwood, or water-trefoil, and may now and then take a glass of small wine, in which gentian root, centaury, or some other bitter, has been infused.

As the chief intentions of cure in an ague are to brace the solids, and promote perspiration, the patient ought to take as much exercise between the fits as he can bear. It he be able to go abroad, riding on horseback, or in a carriage, will be of great service. But if he cannot bear that kind of exercise, he ought to take such as his strength will permit. Nothing tends more to prolong an intermitting fever, than indulging a lazy indolent disposition.

Intermitting fevers, under a proper regimen, will often go off without medicine : and when the disease is mild, in an open dry country, there is seldom any danger from allowing it to take its course ; but when the patient's strength seems to decline, or the paroxysms are so violent that his life is in danger, medicine ought immediately to be administered. This however should never be done till the disease be properly formed, that is to say, till the patient has had several fits of shaking and sweating.

MEDICINE.—The first thing to be done in the cure of an intermitting fever, is to cleanse the stomach and bow-

* Dr Lind says, that twenty or twenty-five drops of laudanum put into a cup of the patient's drink, and given about half an hour after the commencement of the hot fit, promotes the sweat, shortens the fit, relieves the head, and tends greatly to remove the disease.

is. This not only renders the application of other nedicines more safe, but likewise more efficacious. In his disease, the stomach is generally loaded with cold visid phlegm, and frequently great quantities of bile are disharged by vomit; which plainly points out the necessi-. y of such evacuations. Vomits are therefore to be admiistered before the patient takes any other medicine. A ose of ipecacuanha will generally answer the purpose very vell. A scruple or half a drachm of the powder will be ufficient for an adult, and for a young person the dose uust be less in proportion. After the vomit begins to opente, the patient ought to drink plentifully of weak camonile tea. The vomit should be taken two or three hours efore the return of the fit, and may be repeated at the istance of two or three days. Vomits not only cleanse ne stomach, but increase the perspiration, and all the ther secretions, which render them of such importance, aat they often cure intermitting fevers without the assisnnce of any other medicine.

Purging medicines are likewise useful, and often necessary intermitting fevers. A smart purge has been known to ure an obstinate ague, after the Peruvian bark and other edicines had been used in vain. Vomits, however, are core suitable to this disease, and render purging less nessary; but if the patient be afraid to take a vomit, he ught in this case to cleanse the bowels by a dose or two Glauber's salt, jalap, or rhubarb.

Bleeding may sometimes be proper at the beginning of intermitting fever, when excessive heat, a delirium, &c. ve reason to suspect an inflammation ; but as the blood seldom in an inflammatory state in intermitting fevers, is operation is rarely necessary. When frequently related, it tends to prolong the disease.

After proper evacuations the patient may safely use the eruvian bark, which may be taken in any way that is ost agreeable to him. No preparation of the bark seems answer better than the most simple form in which it can given, viz. in powder.

Two ounces of the best Peruvian bark, finely powder-, may be divided into twenty-four doses. These may ther be made into bolusses as they are used, with a little syrup of lemon, or mixed in a glass of red wine, a cup of camomile-tea, water-gruel, or any other drink that is more agreeable to the patient *.

In an ague which returns every day, one of the above doses may be taken every two hours during the interval of the fits. By this method the patient will be able to take five or six doses between each paroxysm. In a tertian or third day ague it will be sufficient to take a dose every third hour during the interval, and in a quartan every fourth. If the patient cannot take so large a dose of the bark, he may divide each of the powders into two parts, and take one every hour, &c. For a young person a smaller quantity of this medicine will be sufficient, and the dose must be adapted to the age, constitution, and violence of the symptoms †.

The above quantity of bark will frequently cure an ague; the patient, nowever, ought not to leave off taking the medicine as soon as the paroxysms are stopped, but should continue to use it till there is reason to believe the disease is entirely overcome. Most of the failures in the cure of this disease are owing to patients not continuing to use the medicine long enough. They are generally directed to take it till the fits are stopped, then to leave it off, and begin again at some distance of time; by which means the disease gathers strength, and often returns with as much violence as before. A relapse may always be prevented by the patient's continuing to take small doses of the medicine for some time after the symptoms disappear. This is both the most safe and effectual method of cure.

* It has lately been observed, that the red bark is more powerful than that which has for some time been in common use. Its superior efficacy seems to arise from its being of a more perfect growth than the quill bark, and consequently more fully impregnated with the medical properties of the plant.

+ In intermitting fevers of an obstinate nature, I have found it necessary to throw in the bark much faster. Indeed the benefits arising from this medicine depend chiefly upon a large quantity of it being administered in a short time. Several ounces of bark given in a few days will do more than as many pounds taken in the course of some weeks. When this medicine is intended either to stop a mortification, or cure an obstinate ague, it ought to be thrown in as fast as the stomach can possibly bear it. Inattention to this circumstance has hurt the reputation of one of the best medicines of which we are in possession. An ounce of gentian root, calamus aromaticus, and ange-peel, of each half an ounce, with three or four indfuls of camomile-flowers, and an handful of coriandered, all bruised together in a mortar, may be used in form infusion or tea. About half an handful of these ingreents may be put into a tea-pot, and an English pint of iling water poured upon them. A cup of this infusion unk three or four times a-day will greatly promote the re. Such patients as cannot drink the watery infusion, by put two handfuls of the same ingredients into a botof white wine, and take a glass of it twice or thrice lay. If patients drink freely of the above, or any other oper infusion of bitters, a smaller quantity of bark than generally used, will be sufficient to cure an ague.*

Those who cannot swallow the bark in substance, may e it in decoction, or infusion. An ounce of bark in wder may be infused in a bottle of white wine for four five days, frequently shaking the bottle, afterwards let powder subside, and pour off the clear liquor. A wine ss may be drunk three or four times a day, or oftener, here is occasion. If a decoction be more agreeable, ounce of the bark, and two drachms of snake-root ised, with an equal quantity of salt of worm-wood, y be boiled in a quart of water, into an English pint. the strained liquor may be added an equal quantity ed wine, and a glass of it taken frequently.

n obstinate agues, the bark will be found much more cacious when assisted by brandy, or other warm cors, than taken alone. This I have had frequently occato observe in a country where intermittent fevers e endemical. The bark seldom succeeded unless assistby snake-root, ginger, canella alba, or some other m aromatic. When the fits are very frequent and vio-

There is reason to believe, that sundry of our own plants, or barks, a are very bitter and astringent, would succeed in the cure of inttent fevers, especially when assisted by aromatics. But as the ian Bark has been long approved in the cure of this disease, and w to be obtained at a very reasonable rate, it is of less importance arch after new medicines. We cannot however omit taking notice, he Peruvian bark is very often adulterated, and that it requires conble skill to distinguish between the genuine and the false. This to make people very cautious of whom they purchase it. lent, in which case the fever often approaches towards a inflammatory nature, it will be safer to keep out the arc matic, and to add sait of tartar in their stead. But in a obstinate tertian or quartan, in the end of autumn or be ginning of winter, warm and cordial medicines are absolute ly necessary.*

As autumnel and winter agues generally prove muc more obstinate than those which attack the patient i spring or summer, it will be necessary to continue th use of medicines longer in the former than in the latter. person who is seized with an intermitting fever in the be ginning of winter, ought frequently, if the season prove rainy, to take a little medicine, although the disease ma seem to be cured, to prevent a relapse, till the return of a warm season. He ought likewise to take care not t be much abroad in wet weather, especially in cold easter by winds.

When agues are not properly cured, they often degene rate into obstinate chronical diseases, as the dropsy, jaun dice, &c. For this reason all possible care should b taken to have them radically cured, before the constitution has been too much weakened.

Though nothing is more rational than the method c treating intermitting fevers, yet, by some strange infatua tion, more charms and whimsical remedies are daily used for removing this than any other disease. There is hard ly an old woman who is not in possession of a nostrum fo stopping an ague ; and it is amazing with what readines their pretensions are believed. Those in distress eagerly grasp at any thing that promises sudden relief ; but the shortest way is not always the best in the treatment of diseases. The only method to obtain a safe and lasting cure, is gradually to assist Nature in removing the cause of the disorder.

Some indeed try bold, or rather fool-hardy experiments

* In obstinate agues, when the patient is old, the habit phlegmatic, the season rainy, the situation damp, or the like, it will be necessary to mix with two ounces of the bark, half an ounce of Virginian snake-root, and a quarter of an ounce of ginger, or some other warm aromatic; but when the symptoms are of an inflammatory nature, half an ounce of the salt of wormwood, or salt of tartar, may be added to the above quantity of bark.

cure agues, as drinking great quantities of strong linors, jumping into a river, &c. These may sometimes we the desired effect, but must always be attended with inger *. When there is any degree of inflammation, or e least tendency to it, such experiments may prove fatal. he only patient whom I remember to have lost in an inmittent fever, evidently killed himself by drinking ong liquor, which some person had persuaded him would ove an infallible remedy.

Many dirty things are extolled for the cure of intermitg fevers, as spiders, cobwebs, snuffings of candles, &c. ough these may sometimes succeed, yet their very nasess is sufficient to set them aside, especially when cleanmedicines will answer the purpose better. The only dicine that can be depended upon, for thoroughly curan intermittent fever, is the Peruvian bark. It may ways be used with safety : and I can honestly declare, t in all my practice I never knew it fail, when combinwith the medicines mentioned above, and duly persistin.

Vhere agues are endemical, even children are often afted with that disease. Such patients are very difficult ure, as they can seldom be prevailed upon to take the ζ , or any other disagreeable medicine. One method endering this medicine more palatable, is to make it a mixture with distilled waters and syrup, and afterds to give it an agreeable sharpness with the elixir or it of vitriol. This both improves the medicine, and s off the nauseous taste. In cases where the bark canbe administered, the saline mixture, may be given with ntage to children \dagger .

Vine whey is a very proper drink for a child in an ; to half an English pint of which may be put a teanful of the spirit of hartshorn. Exercise is likewise nsiderable service; and when the disease proves obte, the child ought, if possible, to be removed to a warm

Arsenic has of late been recommended as an infallible remedy in the but I would advise that it should be used only under the eye of a ian.

U

ce Appendix, Saline mixture.

dry air. The food ought to be nourishing, and sometime a little generous wine should be allowed.

To children, and such as cannot swallow the bark, o when the stomach will not bear it, it may be given by clys ter. Half an ounce of the extract of bark, dissolved i four ounces of warm water, with the addition of half a ounce of sweet oil, and six or eight drops of laudanum in the form recommended by Dr Lind for an adult, and thi to be repeated every fourth hour, or oftener, as the occa sion shall require. For children, the quantity of extrac and laudanum must be proportionally lessened. Childre have been cured of agues by making them wear a waist coat with powdered bark quilted between the folds of it by bathing them frequently in a strong decoction of th bark, and by rubbing the spine with strong spirits, o with a mixture of equal parts of laudanum and the sapona ceous liniment.

We have been the more full upon this disease, becaus it is very common, and because few patients in an agu apply to physicians unless in extremities. There are, how ever, many cases in which the disease is very irregular being complicated with other diseases, or attended wit symptoms which are both very dangerous and very difficuto understand. All these we have purposely passed over as they would only bewilder the generality of readers When the disease is very irregular, or the symptoms dangerous, the patient ought immediately to apply to a phy sician, and strictly to follow his advice.

To prevent agues, people must endeavour to avoid the causes. These have been already pointed out in the be ginning of this section ; we shall therefore only add on preventive medicine, which may be of use to such as an obliged to live in low marshy countries, or who are liable to frequent attacks of this disease.

Take an ounce of the best Peruvian bark; Virginia snake-root, and orange peel, of each half an ounce; bruis them all together, and infuse for five or six days in a both of Brandy, Holland gin, or any good spirit; afterward pour off the clear liquor; and take a wine glass of it twic or thrice a-day. This indeed is recommending a dram but the bitter ingredients in a great measure take off the

155

effects of the spirit. Those who do not chuse it in bran-, may infuse it in wine; and such as can bring themlves to chew the bark, will find that method succeed ry well. Gentian root, or calamus aromaticus, may so be chewed by turns for the same purpose. All bitters em to be antidotes to agues, especially those that are irm and astringent.

CHAP. XV.

OF AN ACUTE CONTINUAL FEVER.

THIS fever is denominated acute, ardent, or inflammatory. It most commonly attacks the young, or persons out the prime or vigour of life, especially such as live gh, abound with blood, and whose fibres are strong and stic. It seizes people at all seasons of the year; but is ost frequent in the spring and beginning of summer.

CAUSES.—An ardent fever may be occasioned by any ing that overheats the body, or produces plethora, as blent exercise, sleeping in the sun, drinking strong liors, eating spiceries, a full diet, with little exercise, &c. may likewise be occasioned by whatever obstructs the spiration, as lying on the damp ground, drinking cold nor when the body is hot, night-watching, or the like.

5YMPTOMS.—A rigour or chilliness generally ushers this fever, which is soon succeeded by great heat, a freent and full pulse, pain of the head, dry skin, redness the eyes, a florid countenance, pains in the back, loins, . To these succeed difficulty of breathing, sickness, with inclination to vomit. The patient complains of great rst, has no appetite for solid food, is restless, and his gue generally appears black and rough.

A delirium, excessive restlessness, great oppression of breast, with laborious respiration, starting of the tenns, hiccup, cold clammy sweats, and an involuntary charge of urine, are very dangerous symptoms.

As this disease is always attended with danger, the best dical assistance ought to be procured as soon as possible. physician may be of use at the beginning, but his skill

is often of no avail afterwards. Nothing can be more un accountable than the conduct of those who have it in thei power, at the beginning of a fever, to procure the bes medical assistance, yet put it off till things come to a extremity. When the disease, by delay or wrong treat ment, has become incurable, and has exhausted th strength of the patient, it is in vain to hope for relief fror medicine. Physicians may indeed assist Nature ; but thei attempts must ever prove fruitless, when she is no longe able to co-operate with their endeavours.

REGIMEN.—From the symptoms of this disease, it i evident, that the blood and other humours require to b diluted; that the perspiration, urine, saliva, and all th other secretions, are in too small quantity; that the ves sels are rigid, and the heat of the whole body too great all these clearly point out the necessity of a regimen calcu lated to dilute the blood, correct the acrimony of the hu mours, allay the excessive heat, remove the spasmodic stricture of the vessels, and promote the secretions.

These important purposes may be greatly promoted by drinking plentifully of diluting liquors; as water gruel, o oatmeal-tea, clear whey, barley-water, balm-tea, apple tea, &c. These may be sharpened with juice of orange jelly of currants, raspberries, and such like; orange-whey is likewise an excellent cooling drink. It is made by boiling among milk and water a bitter orange sliced, till the curd separates. If no orange can be had, a lemon, a little cream of tartar, or a few spoonfuls of vinegar, will have the same effect. Two or three spoonfuls of white wine may occasionally be added to the liquor when boiling.

If the patient be costive, an ounce of tamarinds, with two ounces of stoned raisins of the sun, and a couple of figs, may be boiled in three English pints of water to a quart. This makes a very pleasant drink and may be used at discretion. The common pectoral decoction is likewise a very proper drink in this disease. A tea cupful of it may be taken every two hours, or oftener, if the partient's heat and thirst be very great *.

The above liquids must all be drunk a little warm. They may be used in smaller quantities at the beginning * See Appendix, Pectoral decoction.

a fever, but more freely afterwards, in order to assist carrying off the disease by promoting the different exetions. We have mentioned a variety of drinks, that e patient may have it in his power to chuse those which most agreeable; and that when tired of one, he may ve recourse to another.

The patient's diet must be very spare and light. All ts of flesh-meats, and even chicken-broths, are to be bided. He may be allowed groat-gruel, panado, or light ad boiled in water; to which may be added a few ins of common salt, and a little sugar, which will der it more palatable. He may eat roasted apples with ttle sugar, toasted bread with jelly of currants, boiled mes, &c.

t will greatly relieve the patient, especially in an hot son, to have fresh air frequently let into his chamber. is, however, must always be done in such a manner as to endanger his catching cold.

t is too common in fevers to load the patient with bed hes, under the pretence of making him sweat, or deling him from the cold. This custom has many ill ets. It increases the heat of the body, fatigues the ent, and retards, instead of promoting, the perspira-

tting upright in bed if the patient is able to bear it, often have a good effect. It relieves the head, by reng the motion of the blood to the brain. But this ure ought never to be continued too long : and if the ent is inclined to sweat, it will be more safe to let him only raising his head a little with pillows.

inegar and rose water, with a little nitre dissolved in ill greatly refresh the patient. This ought to be done tently, especially if the weather is hot.

ne patient's mouth should be often washed with a mixof water and honey, to which a little vinegar may be d, or with a decoction of figs in barley-water. His and hands ought likewise frequently to be bathed in warm water ; especially if the head is affected.

e patient should be kept as quiet and easy as possible. Dany, noise, and every thing that disturbs the mind,

is hurtful. Even too much light, or any thing that affects the senses, ought to be avoided. His attendants should be as few as possible, and they ought not to be too often changed. His inclinations ought rather to be soothed than contradicted; even the promise of what he craves will often satisfy him as much as its reality.

MEDICINE.—In this and all other fevers, attended with a hard, full, quick pulse, bleeding is of the greatest importance. This operation ought always to be performed as soon as the symptoms of an inflammatory fever appear. The quantity of blood to be taken away, however, must be in proportion to the strength of the patient, and the violence of the disease. If after the first bleeding the fever should increase, and the pulse become more frequent and hard, there will be a necessity for repeating it a second, and perhaps a third, or even a fourth time, which may be done at the distance of twelve, eighteen, or twenty-four hours from each other, as the symptoms require. If the pulse continues soft, and the patient is tolerably easy after the first bleeding, it ought not to be repeated.

If the heat and fever be very great, forty or fifty drops of the dulcified, or sweet spirit of nitre may be made into a draught, with an ounce of rose-water, two ounces of common water, and half an ounce of simple syrup, or a bit of loaf sugar. This draught may be given to the patient every three or four hours while the fever is violent; afterwards once in five or six hours will be sufficient.

If the patient be afflicted with reaching, or an inclination to vomit, it will be right to assist Nature's attempts, by giving him weak camomile-tea, or luke-warm water to drink.

If the body is bound, a clyster of milk and water with a little salt, and a spoonful of sweet oil or fresh butter in it, ought daily to be administered. Should this not have the desired effect, a tea-spoonful of magnesia alba, of cream of tartar, may be frequently put into his drink. He may likewise eat tamarinds, boiled prunes, roasted apples, and the like.

If about the tenth, eleventh, or twelfth day, the pulse becomes more soft, the tongue moister, and the urine begins to let fall a reddish settlement, there is reason to exect a favourable issue to the disease. But if, instead of ese symptoms, the patient's spirits grow languid, s pulse sinks, and his breathing becomes difficult; with stupor, trembling of the nerves, starting of the tenons, &c. there is reason to fear that the consequences II be fatal. In this case blistering plasters must be apied to the head, ancles, inside of the legs or thighs, as ere may be occasion; poultices of wheat bread, mustard, id vinegar, may likewise be applied to the soles of the it, and the patient must be supported with cordials, as ong wine-whey, negus, sago-gruel with wine in it, and ch like.

A proper regimen is not only necessary during the fe-, but likewise after the patient begins to recover. By glecting this, many relapse, or fall into other diseases, I continue valetudinary for life. Though the body is ak after a fever, yet the diet for some time ought to be her light than of too nourishing a nature. Too much d, drink, exercise, company, &c. are carefully to be bided. The mind ought likewise to be kept easy, and patient should not attempt to pursue study, or any siness that requires intense thinking.

If the digestion is bad, or the patient is seized at times the feverish heats, an infusion of Peruvian bark in cold er will be of use. It will strengthen the stomach, and to subdue the remains of the fever.

When the patient's strength is pretty well recovered, he ht to take some gentle laxative. An ounce of tamals and a dram of sena may be boiled for a few minutes n English pint of water, and an ounce of manna dised in the decoction; afterwards it may be strained, a tea cupful drank every hour till it operates. This may be repeated twice or thrice, five or six days inening between each dose.

hose who follow laborious employments ought not to rn too soon to their labour after a fever, but should easy till their strength and spirits are sufficiently uited.

C H A P. XVI.

OF THE PLEURISY.

HE true pleurisy is an inflammation of that membrane called the *pleura*, which lines the inside of the breast It is distinguished into the moist and dry. In the former, the patient spits freely ; in the latter, little, or none at all There is likewise a species of this disease, which is called the *spurious*, or *bastard pleurisy*, in which the pain is more external, and chiefly affects the muscles between the ribs, the pleurisy prevails among labouring people, especially such as work without doors, and are of a sanguine constitution. It is most frequent in the spring season.

CAUSES .- The pleurisy may be occasioned by whatever obstructs the perspiration; as cold northerly winds; drinking cold liquor when the body is hot; sleeping without doors on the damp ground; wet clothes; plunging the body into cold water, or exposing it to the cold air, when covered with sweat, &c. It may likewise be occasioned by drinking strong liquors; by the stoppage of usual evacuations; as old ulcers, issues, sweating of the feet or hands, &c. The sudden striking in of any eruption, as the itch, the measles, or the small pox. Those who have been accustomed to bleed at a certain season of the year are apt, if they neglect it, to be seized with a pleurisy. Keeping the body too warm by means of fire, clothes, &c. renders it more liable to this disease. A plearisy may likewise be occasioned by violent exercise, as running, wrestling, leaping, or by supporting great weight, blows on the breast, &c. A bad confirmation of the body renders persons more liable to this disease, as a narrow chest, a straitness of the arteries of the pleura, &c.

SYMPTOMS.—This, like most other fevers, generally begins with chilness and shivering, which are followed by heat, thirst, and restlessness. To these succeeds a violent pricking pain in one of the sides among the ribs. Sometimes the pain extends towards the back bone, sometimes toward the fore-part of the breast, and at other times wards the shoulder blades. The pain is generally most plent when the patient draws his breath.

The pulse in this disease is commonly quick and hard, : urine high coloured ; and if blood be let, it is covered th a tough crust, or buffy coat. The patient's spittle is first thin, but afterwards it becomes grosser, and is ofstreaked with blood.

REGIMEN.—Nature generally endeavours to carry off s disease by a critical discharge of blood from some part the body, by exportation, sweat, loose stools, thick ne, or the like. We ought therefore to second her intenns by lessening the force of the circulation, relaxing the sels, diluting the humours, and promoting exportation. For these purposes the diet, as in the former disease, the to be cool, slender, and diluting. The patient must id all food that is viscid, hard of digestion, or that afds much nourishment; as flesh, butter, cheese, eggs, k, and also every thing that is of a heating nature. His hk may be whey, or an infusion of pectoral and balsavegetables. *

Barley water, with a little honey or jelly of currants eed with it, is likewise a very proper drink in this dis-It is made by boiling an ounce of pearl-barley in e English pints of water to two, which must afterds be strained. The decoction of figs, raisins, barley, mmended in the preceding disease, is here likewise veproper. These and other diluting liquors are not to be nk in large quantities at a time, but the patient ought to o continually sipping them, so as to render his mouth throat always moist. All his food and drink should aken a little warm.

he patient should be kept quiet, cool, and every way , as directed under the foregoing disease. His feet hands ought daily to be bathed in lukewarm water; he may sometimes sit up in bed for a short space, in r to relieve his head.

IEDICINE.—Almost every person knows, when a fes attended with a violent pain of the side, and a quick l pulse, that bleeding is necessary. When these symps come on, the sooner this operation is performed the

* See Appendix, Pectoral infusion.

better; and the quantity at first must be pretty large provided the patient is able to bear it. A large quantity of blood let at once, in the beginning of a pleurisy, has a much better effect than repeated small bleedings. A man may lose twelve or fourteen ounces of blood as soon as it is certainly known that he is seized with a pleurisy. For a younger person, or one of a delicate constitution, the quantity must be less.

If, after the first bleeding, the stitch, with the other violent symptoms, should still continue, it will be necessary, at the distance of twelve or eighteen hours, to let eight or nine ounces more. If the symptoms do not then abate, and the blood shews a strong buffy coat, a third or even a fourth bleeding may be requisite. If the pain of the side abates, the pulse becomes softer, or the patient begins to spit freely, bleeding ought not to be repeated. This operation is seldom necessary after the third or fourth day of the fever, and ought not then to be performed, unless in the most urgent circumstances.

The blood may be many ways attenuated without bleeding. There are likewise many things that may be done to ease the pain of the side without this operation, as fomenting, blistering, &c. Fomentations may be made by boiling a handful of the flowers of elder, camomile, and common mallows, or any other soft vegetables, in a proper quantity of water. The herbs may be either put into a flannel bag, and applied warm to the side, or flannel may be dipped in the decoction, afterwards wrung out and applied to the part affected, with as much warmth a the patient can easily bear. As the clothes grow cool they must be changed, and great care taken that the patien do not catch cold. A bladder may be filled with warm mill and water, and applied to the side, if the above method of fomenting be found inconvenient. Fomentations no only ease the pain, but relax the vessels, and prevent th stagnation of the blood and other humours. The sid may likewise be frequently rubbed with a little of the vo latile liniment. *

Topical bleeding has often a very good effect in this disease. It may either be performed by applying a num-

* See Appendix, Volatile Liniment.

er of leeches to the part affected, or by cupping, which s both a more certain and expeditious method than the ther.

Leaves of various plants might likewise be applied to ne patient's side with advantage. I have often seen great enefit from young cabbage-leaves applied warm to the ide in a pleurisy. These not only relax the parts, but kewise draw off a little moisture, and may prevent the eccessity of blistering plasters; which, however, when other hings fail, must be applied.

If the stitch continues after repeated bleedings, fomenntions, &c. a blistering-plaster must be applied over the art affected, and suffered to remain for two days. This ot only procures a discharge from the side, but takes off the spasm, and by that means assists in removing the cause if the disease. To prevent a strangury when the blisterng-plaster is on, the patient may drink freely of the Arabic emulsion *.

If the patient is costive, a clyster of thin water-gruel, r of barley-water, in which a handful of mallows, or any ther emollient vegetable has been boiled, may be daily adninistered. This will not only empty the bowels, but ave the effect of a warm fomentation applied to the infeor viscera, which will help to make a derivation from the treast.

The exportation of spitting may be promoted by sharp, ily, and mucilaginous medicines. For this purpose an unce of the oxymel, or the vinegar of squills, may be aded to six ounces of the pectoral decoction, and two tablepoonfuls of it taken every two hours.

Should the squill disagree with the stomach, the oily mulsion may be administered †; or, in place of it, two unces of the oil of sweet almonds, or oil of olives, and wo ounces of the syrup of violets, may be mixed with as nuch sugar candy powdered, as will make an electuary of he consistence of honey. The patient may take a teapoonful of this frequently, when the cough is troubleome. Should oily medicines prove nauseous, which is ometimes the case, two table spoonfuls of the solution c

* See Appendix, Arabic emulsion.

† See Appendix, Oily emulsion.

gum ammoniac in barley-water may be given three or four times a day *.

If the patient does not perspire, but has a burning heat upon his skin, and passes very little water, some small doses of purified nitre and camphire will be of use. Two drachms of the former may be rubbed with five or six grains of the latter in a mortar, and the whole divided into six doses, one of which may be taken every five or six hours, in a little of the patient's ordinary drink.

We shall only mention one medicine more, which some reckon almost a specific in the pleurisy, viz. the decoction of the seneka rattle-snake root †. After bleeding and other evacuations have been premised, the patient may take two, three, or four table spoonfuls of this decoction, according as his stomach will bear it, three or four times a day. If it should occasion vomiting, two or three ounces of simple cinnamon water may be mixed with the quantity of decoction here directed, or it may be taken in smaller doses. As this medicine promotes perspiration and urine, and likewise keeps the body easy, it may be of some service in a pleurisy, or any other inflammation of the breast.

No one will imagine that these medicines are all to be used at the same time. We have mentioned different things, on purpose that people may have it in their power to chuse; and likewise, that when one cannot be obtained, they may make use of another. Different medicines are no doubt necessary in the different periods of a disorder; and where one fails of success, or disagrees with the patient, it will be proper to try another.

What is called the crisis, or height of the fever, is sometimes attended with very alarming symptoms, as difficulty of breathing, an irregular pulse, convulsive motions, &c. These are apt to frighten the attendants, and induce them to do improper things, as bleeding the patient, giving him strong stimulating medicines, or the like. But they are only the struggles of Nature to overcome the disease, in which she ought to be assisted by plenty of diluting drink, which is then peculiarly necessary. If the patient's strength however be much exhausted by the disease, it will be ne-

> * See Appendix Solution of gum ammoniac, + See Appendix, Decoction of seneka root.

essary at this time to support him with frequent small raughts of wine-whey, negus, or the like.

When the pain and fever are gone, it will be proper, afr the patient has recovered sufficient strength, to give him me gentle purges, as those directed towards the end of ce acute continual fever. He ought likewise to use a ght diet, of easy digestion, and his drink should be butr-milk, whey, and other things of a cleansing nature.

OF THE BASTARD PLEURISY.

THAT species of pleurisy which is called the *bastard* or *urious*, generally goes off by keeping warm for a few days, inking plenty of diluting liquors, and observing a coolg regimen.

It is known by a dry cough, a quick pulse, and a diffilty of lying on the affected side, which last does not alnys happen in the true pleurisy. Sometimes indeed this sease proves obstinate, and requires bleeding, with cupng, and scarifications of the part affected. These, togeer with the use of nitrous and other cooling medicines, dom fail to effect a cure.

OF THE PARAPHRENITIS.

THE paraphrenitis, or inflammation of the diaphragm, is mearly connected with the pleurisy, and resembles it so ach in the manner of treatment, that it is scarce necesy to consider it as a separate disease.

It is attended with a very acute fever, and an extreme n in the part affected, which is generally augmented by ughing, sneezing, drawing in the breath, taking food, ng to stool, making water, &c. Hence the patient athes quick, and draws in his bowels to prevent the mon of the diaphragm; is restless, anxious, has a dry ugh, a hiccup, and often a delirium. A convulsive gh, or rather a kind of involuntary grin, is no uncomn symptom of this disease.

t is impossible to save the patient's life when this hapis. The regimen and medicine are in all respects the

OF A PERIPNEUMONY.

same as in the pleurisy. We shall only add, that in this disease emollient clysters are peculiarly useful, as they relax the bowels, and by that means make a derivation from the part affected.

CHAP. XVII.

OF A PERIPNEUMONY, OR INFLAMMATION OF THE LUNGS.

A S this disease affects an organ which is absolutely ne cessary to life, it must always be attended with danger. Persons who abound with thick blood, whose fibres are tense and rigid, who feed upon gross aliment, and drink strong viscid liquors, are most liable to a peripneumony. It is generally fatal to those who have a flat breast, or narrow chest, and to such as are afflicted with an asthma, especially in the decline of life. Sometimes the inflammation reaches to one lobe of the lungs only, at other times the whole of the organ is affected ; in which case the disease can hardly fail to prove fatal.

When the disease proceeds from a viscid pituitous matter obstructing the vessels of the lungs, it is called a *spurious* or *bastard peripneumony*. When it arises from a thin acrid defluxion on the lungs, it is denominated a *catarrha peripneumony*, &c.

CAUSES.—An inflammation of the lungs is sometimes a primary disease, and sometimes it is the consequence of other diseases, as a quinsey, a pleurisy, &c. It proceeds from the same causes as the pleurisy, viz. an obstructed perspiration from cold, wet clothes, &c. or from an increased circulation of the blood by violent exercise, the use of spiceries, ardent spirits, and such like. The pleurisy and peripneumony are often complicated; in which case the disease is called a *pleuro peripneumony*.

SYMPTOMS.—Most of the symptoms of a pleurisy likewise attend an inflammation of the lungs; only in the latter the pulse is more soft, and the pain less acute; but the difficulty in breathing, and oppression of the breast, are generally greater.

OF A PERIPNEUMONY.

REGIMEN .- As the regimen and medicine are in all spects the same in the true peripneumony as in the pleuy, we shall not here repeat them, but refer the reader the treatment of that disease. It may not, however, be proper to add, that the aliment ought to be more slenr and thin in this, than in any other inflammatory disse. The learned Dr Arbuthnot asserts, that even comon whey is sufficient to support the patient, and that coctions of barley, and infusions of fennel roots in warm ter with milk, are the most proper both for drink and marishment. He likewise recommends the steam of rrm water taken in by the breath, which serves as a kind internal fomentation, and helps to attenuate the imcted humours. If the patient has loose stools, but is ; weakened by them, they are not to be stopped, but her promoted by the use of emollient clysters.

It has already been observed, that the spurious or basd peripneumony is occasioned by a viscid pituitous matobstructing the vessels of the lungs. It commonly atks the old, infirm, and phlegmatic, in winter and wet sons.

The patient at the beginning is cold and hot by turns, a small quick pulse, feels a sense of weight upon his ast, breathes with difficulty, and sometimes complains pain and giddiness of his head. His urine is usually and his colour very little changed.

The diet in this, as well as in the true peripneumony, st be very slender, as weak broths, sharpened with the ce of orange or lemon, and such like. His drink may thin water-gruel sweetened with honey, or a decoction he roots of fennel, liquorice, and quick grass. An ce of each of these may be boiled in three English pints water to a quart, and sharpened with a little currant-7, or the like.

of squills, &c. Blistering plasters have generally a good effect, and ought to be applied pretty early.

If the patient does not spit, he must be bled according as his strength will permit, and have a gentle purge administered. Afterwards his body may be kept open by clysters, and the expectoration promoted, by taking every four hours two table-spoonfuls of the solution mentioned above.

When an inflammation of the breast does not yield to bleeding, blistering, and other evacuations, it commonly ends in a suppuration, which is more or less dangerous, according to the part where it is situated. When this happens in the pleura, it sometimes breaks outwardly, and the matter is discharged by the wound.

When the suppuration happens within the substance, or body of the lungs, the matter may be discharged by expectoration; but if the matter floats in the cavity of the breast, between the pleura and the lungs, it can only be discharged by an incision made betwixt the ribs.

If the patient's strength does not return after the inflammation is to all appearance removed; if his pulse continues quick, though soft, his breathing difficult and oppressed; if he has cold shiverings at times, his cheeks flushed, his lips dry; and if he complains of thirst, and want of appetite, there is reason to fear a suppuration, and that a phthisis or consumption of the lungs will ensue. We shall therefore next proceed to consider the proper treatment of that disease.

CHAP. XVIII.

OF CONSUMPTIONS.

A CONSUMPTION is a wasting or decay of the whole body from an ulcer, tubercles, or concretions of the lungs, an empyema, a nervous atrophy, or a cachexy.

Dr Arbuthnot observes, that in his time consumptions made up above one tenth-part of the bills of mortality in and about London. There is reason to believe that their have rather increased since ; and we know from experience, that they are not less fatal in some other towns of England than in London.

Young persons, between the age of fifteen and thirty, of a slender make, long neck, high shoulders, and flat preasts, are most liable to this disease.

Consumptions prevail more in England than in any oher part of the world, owing perhaps to the great use of animal food and malt liquors, the general application to eedentary employments, and the great quantity of pit-coal which is there burnt; to which we may add the perpetual changes in the atmosphere, or variableness of the weather.

CAUSES.—It has already been observed, that an inlammation of the breast often ends in an imposthume; consequently, whatever disposes people to this disease, must likewise be considered as a cause of consumption.

Other diseases, by vitiating the habit, may likewise occasion consumptions: as the scurvy, the scrophula, or king's evil, the venereal disease, the asthma, small-pox, measles, &c.

As this disease is seldom cured, we shall endeavour the more particularly to point out its causes, in order that peopole may be enabled to avoid it. These are :

-----Violent passions, exertions, or affections of the mind; as grief, disappointment, anxiety, or close application to the study of abstruse arts or sciences.

----Great evacuations; as sweating, diarrhœas, dia oetes, excessive venery, the fluor albus, an over-discharge of the menstrual flux, giving suck too long, &c.

——The sudden stoppage of customary evacuations; as the bleeding piles, sweating of the feet, bleeding at the nose, the menses, issues, ulcers, or eruptions of any kind.

-----Injuries done to the lungs, calculi, &c. I lately saw the symptoms of a phthisis occasioned by a small bone sticking in the *bronchce*. It was afterwards vomited along with a considerable quantity of purulent matter, and the patient, by a proper regimen, and the use of Peruvian bark, recovered.

----Making a sudden transition from a hot to a very cold climate, change of apparel, or whatever greatly lessens the perspiration.

----Frequent and excessive debaucheries. Late watching and drinking strong liquors, which generally go together, can hardly fail to destroy the lungs. Hence the bon companion generally falls a sacrifice to this disease.

——Infection. Consumptions are likewise caught by sleeping with the diseased; for which reason this should be carefully avoided. It cannot be of great benefit to the sick, and must hurt those in health.

——Occupations in life. Those artificers who sit much, and are constantly leaning forward, or pressing upon the stomach and breast, as cutlers, tailors, shoe-makers, seamstresses, &c. often die of consumptions. They likewise prove fatal to singers, and all who have occasion to make frequent and violent exertions of the lungs.

Sharp, saline, and aromatic aliments, which heat and inflame the blood, are likewise frequently the cause of onsumptions.

We shall only add, that this disease is often owing to an hereditary taint, or a scrophulous habit; in which case it is generally incurable.

SYMPTOMS.—This disease generally begins with a dry cough, which often continues for some months. If a disposition to vomit after eating be excited by it, there is still greater reason to fear an approaching consumption. The patient complains of a more than usual degree of heat, a pain and oppression of the breast, especially after motion; his spittle is of a saltish taste, and sometimes mixed with blood. He is apt to be sad; his appetite is bad, and his thirst great. There is generally a quick, soft, small pulse; though sometimes the pulse is pretty full, and rather hard. These are the common symptoms of a beginning consumption.

Afterwards the patient begins to spit a greenish, white, or bloody matter. His body is extenuated by the hectic fever, and colliquative sweats, which mutually succeed one another, viz. the one towards night, and the other in the morning. A looseness, and an excessive discharge of urine, are often troublesome symptoms at this time, and greatly weaken the patient. There is a burning heat in the palms of the hands, and the face generally flushes after eating; the fingers become remarkably small, the nails are bent inwards, and the hairs fall off.

At last the swelling of the feet and legs, the total loss of strength, the sinking of the eyes, the difficulty of swallowing, and the coldness of the extremities, shew the immediate approach of death, which, however, the patient seldom believes to be so near. Such is the usual progress of this fatal disease, which, if not early checked, commonly sets all medicine at defiance.

REGIMEN.—On the first appearance of a consumption, if the patient lives in a large town, or any place where the air is confined, he ought immediately to quit it, and to make choice of a situation in the country, where the air is pure and free. Here he must not remain inactive, but take every day as much exercise as he can bear.

The best method of taking exercise is to ride on horseback, as this gives the body a great deal of motion without much fatigue. Such as cannot bear this kind of exercise, must make use of a carriage. A long journey, as it amuses the mind by a continual change of objects, is greatly preferable to riding the same ground over and over. Care however must be taken to avoid catching cold from wet clothes, damp beds, or the like. The patient ought always to finish his riding in the morning, or at least before dinner; otherwise it will oftener do harm than good.

It is pity those who attend the sick seldom recommend riding in this disease, till the patient is either unable to bear it, or the malady has become incurable. Patients are likewise apt to trifle with every thing that is in their own power. They cannot see how one of the common actions of life should prove a remedy in an obstinate disease, and therefore they reject it, while they greedily hunt after relief from medicine, merely because they do not understand it.

Those who have strength and courage to undertake a pretty long voyage, may expect great advantage from it. This, to my knowledge, has frequently cured a consumption after the patient was, to all appearance, far advanced in that disease, and where medicine had proved ineffectual. Hence it is reasonable to conclude, that if a voyage were undertaken in due time, it would seldom fail to perform a cure *.

Such as try this method of cure ought to carry as much fresh provisions along with them as will serve for the whole time they are at sea. As milk is not easily obtained in this situation, they ought to live upon fruits, and the broth of chickens, or other young animals which can be kept alive on board. It is scarce necessary to add, that such voyages should be undertaken, if possible, in the mildest season, and that they ought to be towards a warmer climate \dagger .

Those who have not courage for a long voyage may travel into a more southern climate, as the south of France, Spain, or Portugal; and if they find the air of these countries agree with them, they should continue there, at least till their health be confirmed.

Next to proper air and exercise, we would recommend a due attention to diet. The patient should eat nothing that is either heating or hard of digestion, and his drink must be of a soft and cooling nature. All the diet ought to be calculated to lessen the acrimony of the humours, and to nourish and support the patient. For this purpose he must keep chiefly to the use of vegetables and milk.

* Two things chiefly operate to prevent the benefits which would arise from sailing. The one is, that the physicians seldom order it till the disease is too far advanced ; and the other is, that they seldom order a voyage of a sufficient length. A patient may receive no benefit by crossing the channel, who, should he cross the Atlantic, might be completely cured. Indeed we have reason to believe, that a voyage of this kind, if taken in due time, would seldom fail to cure a consumption.

† Though I do not remember to have seen one instance of genuine consumption of the lungs cured by medicine, yet I have known a West India voyage work wonders in that dreadful disorder. Milk alone is of more value in this disease than the whole nateria medica.

Ass's milk is commonly reckoned preferable to any other; but it cannot always be obtained; besides, it is renerally taken in a very small quantity; whereas, to proluce any effects, it ought to make a considerable part of the patient's diet. It is hardly to be expected, that a gill or two of ass's milk, drunk in the space of twenty-four nours, should be able to produce any considerable change in the humours of an adult; and when people do not pereive its effects soon, they lose hope, and so leave it off. Hence it happens that this medicine, however valuable, rery seldom performs a cure. The reason is obvious; it is commonly used too late, is taken in too small quantities, and is not duly persisted in.

I have known very extraordinary effects from ass's milk in obstinate coughs, which threatened a consumption if the lungs; and do verily believe, if used at this period, that it would seldom fail; but if it be delayed till an ulcer formed, which is generally the case, how can it be exected to succeed?

Ass's milk ought to be drunk, if possible, in its natual warmth, and, by a grown person, in the quantity of alf an English pint at a time. Instead of taking this uantity night and morning only, the patient ought to ake it four times, or at least thrice a-day, and to eat a tttle light bread along with it, so as to make it a kind of neal.

If the milk should happen to purge, it may be mixed with old conserve of roses. When that cannot be obuined, the powder of crab's claws may be used in its stead. ass's milk is usually ordered to be drunk warm in bed; but as it generally throws the patient in a sweat when taen in this way, it would perhaps be better to give it after e rises.

Some extraordinary cures in consumptive cases have een performed by women's milk. Could this be obtaind in sufficient quantity, we would recommend it in prerence to any other. It is better if the patient can suck from the breast, than to drink it afterwards. I knew a nan who was reduced to such a degree of weakness in a consumption, as not to be able to turn himself in bed. His wife was at that time giving suck, and the child happening to die, he sucked her breasts, not with a view to reap any advantage from the milk, but to make her easy. Finding himself, however, greatly benefited by it, he continued to suck her till he became perfectly well, and is at present a strong and healthy man.

Some prefer butter milk to any other, and it is indeed a very valuable medicine, if the stomach be able to bear it. It does not agree with every person at first : and is therefore often laid aside without a sufficient trial. It should at first be taken sparingly, and the quantity gradually increased, until it comes to be almost the sole food. I never knew it succeed, unless where the patient almost lived upon it.

Cow's milk is most readily obtained of any, and though it be not so easily digested as that of ass's or mare's, it may be rendered lighter by adding to it an equal quantity of barley-water, or allowing it to stand for some hours, and afterwards taking off the cream. If it should notwithstanding prove heavy on the stomach, a small quantity of brandy or rum, with a little sugar, may be added, which will render it both more light and nourishing.

It is not to be wondered, that milk should for some time disagree with a stomach, that has not been accustomed to digest any thing but flesh and strong liquors, which is the case with many of those who fall into consumptions. We do not however advise those who have been accustomed to animal food and strong liquors, to leave them off all at once. This might be dangerous. It will be necessary for such to eat a little once a day of the flesh of some young animal, or rather to use the broth made of chickens, veal, lamb, or such like. They ought likewise to drink a little wine made into negus, or diluted with twice or thrice its quantity of water, and to make it gradually weaker till they can leave it off altogether.

These must be used only as preparatives to a diet consisting chiefly of milk and vegetables, which the sooner the patient can be brought to bear, the better. Rice and milk, or barley and milk, boiled with a little sugar, is very proper food. Ripe fruits roasted, baked, or boiled,

re likewise proper, as goose or currant berry tarts, apples pasted, or boiled in milk, &c. The jellies, conserves, and reserves, &c. of ripe subacid fruits, ought to be eaten plenfully, as the jelly of currants, conserve of roses, preserved dumbs, cherries, &c.

Wholesome air, proper exercise, and a diet consisting niefly of these and other vegetables, with milk, is the oncourse that can be depended on in a beginning consumpon. If the patient has strength and sufficient resolution to ersist in this course, he will seldom be disappointed of a are.

In a populous town in England, * where consumptions e very common, I have frequently seen consumptive paents, who had been sent to the country with orders to de, and live upon milk and vegetables, return in a few onths quite plump, and free from any complaint. This deed was not always the case, especially when the disease as hereditary, or far advanced ; but it was the only meod in which success was to be expected : where it failed, never knew medicine succeed.

If the patient's strength and spirits flag, he must be suprted by strong broths, jellies, and such like. Some remmend shell-fish in this disorder, and with some reason, they are nourishing and restorative †. All the food and ink ought however to be taken in small quantities, lest overcharge of fresh chyle should oppress the lungs, id too much accelerate the circulation of the blood.

The patient's mind ought to be kept as easy and cheeras possible. Consumptions are often occasioned, and vays aggravated by a melancholy cast of mind: for ich reason music, cheerful company, and every thing it inspires mirth, are highly beneficial. The patient ght seldom to be left alone, as brooding over his calamis is sure to render them worse.

MEDICINE.—Though the cure of this disease depends iefly upon regimen and the patient's own endeavours,

* Sheffield.

I have often known persons of a consumptive habit, where the sympis were not violent, reap great benefit from the use of oysters. They erally ate them raw, and drank the juice along with them. yet we shall mention a few things which may be of service in relieving some of the more violent symptoms.

In the first stage of a consumption, the cough may sometimes be appeased by bleeding; and the expectoration may be promoted by the following medicines. Take fresh squills, gum ammoniac, and powdered cardamum seeds, of each a quarter of an ounce; beat them together in a mortar, and if the mass proves too hard for pills, a little of any kind of syrup may be added to it. This may be formed into pills of a moderate size, and four or five of them taken twice or thrice a-day, according as the patient's stomach will bear them.

The *lac ammoniacum*, or milk of gum-ammoniac, as it is called, is likewise a proper medicine in this stage of the disease. It may be used as directed in the pleurisy.

A mixture made of equal parts of lemon juice, fine homey, and syrup of poppies, may likewise be used. Four ounces of each of these may be simmered together in sauce-pan, over a gentle fire, and a table-spoonful of i taken at any time when the cough is troublesome.

It is common in this stage of the disease to load the patient's stomach with oily and balsamic medicines. These instead of removing the cause of the disease, tend rathe to increase it, by heating the blood, while they pall th appetite, relax the solids, and prove every way hurtful to th patient. Whatever is used for removing the cough, be sides riding and other proper regimen, ought to be medicines of a sharp and cleansing nature; as oxymel, syrup or lemon, &c.

Acids seem to have peculiarly good effects in this disease they both tend to cool the patient's thirst, and to cool the blood. The vegetable acids, as apples, oranges, lemon &c. appear to be the most proper. I have known patient suck the juice of several lemons every day with manife advantage, and would for this reason recommend acid very getables to be taken in as great quantity as the stomate will bear them.

For the patient's drink, we would recommend infusion of the bitter plants, as ground-ivy, the lesser centaury, c momile flowers, or water-trefoil. These infusions may l drunk at pleasure. They strengthen the stomach, proote digestion, rectify the blood, and at the same time iswer all the purposes of dilution, and quench thirst. uch better than things that are luscious or sweet. But the patient spits blood, he ought to use, for his ordinary ink, infusions or decoctions of the vulnerary roots, ants, &c.*

There are many other mucilaginous plants and seeds, of a caling and agglutinating nature, from which decoctions or fusions may be prepared with the same intention ; as the ches, the quinceseed, coltsfoot, linseed, sasaparilla, &c. is not necessary to mention the different ways in which ese may be prepared. Simple infusion or boiling is all at is necessary, and the dose may be at discretion.

The conserve of roses is here peculiarly proper. It may ther be put into the decoction above prescribed, or eaten y itself. No benefit is to be expected from trifling doses this medicine. I never knew it of any service, unless here three or four ounces at least were used daily for a possiderable time. In this way I have seen it produce very uppy effects, and would recommend it wherever there is discharge of blood from the lungs.

When the spitting up of gross matter, oppression of the ceast, and the hectic symptoms, shew that an imposthume formed in the lungs, we would recommend the Peruvibark, that being the only drug which has any chance counteract the general tendency which the humours then have to putrefaction.

An ounce of the bark in powder may be divided into ghteen or twenty doses, of which one may be taken very three hours through the day, in a little syrup, or a up of hore-hound tea.

If the bark should happen to purge, it may be made ino an electuary, with the conserve of roses, thus: Take Id conserve of roses a quarter of a pound, Peruvian bark opowder an ounce, syrup of orange or lemon, as much s will make it of the consistence of honey. This quantity vill serve the patient four or five days, and may be repeated s there is occasion.

Such as cannot take the bark in substance, may infuse t in cold water. This seems to be the best menstruum for

* See Appendix, Vulnerary decoction.

⁴

extracting the virtues of that drug. Half an ounce of bark in powder may be infused for twenty-four hours in half an English pint of water. Afterwards let it be passed through a fine strainer, and an ordinary tea-cupful of it taken three or four times a-day.

We would not recommend the bark while there are any symptoms of an inflammation of the breast; but when it is certainly known that matter is collected there, it is one of the best medicines which can be used. Few patients indeed have resolution enough to give the bark a fair trial at this period of the disease, otherwise we have reason to believe that some benefit might be reaped from it.

When it is evident that there is an imposthume in the breast, and the matter can neither be spit up nor carried off by absorption, the patient must endeavour to make it break inwardly, by drawing in the steams of warm water or vinegar with his breath, coughing, laughing, or bawling aloud, &c. When it happens to burst within the lungs, the matter may be discharged by the mouth. Sometimes indeed the bursting of the vomica occasions immediate death, by suffocating the patient. When the quantity of matter is great, and the patient's strength exhausted, this is commonly the case. At any rate the patient is ready to fall into a swoon, and should have volatile salts or spiritheld to his nose.

If the matter discharged be thick, and the cough and breathing become easier, there may be some hopes of a cure. The diet at this time ought to be light; but restorative, as chicken-broths, sago-gruel, rice-milk, &c. the drink, butter-milk, or whey, sweetened with honey This is likewise a proper time for using the Peruvian bark which may be taken as directed above.

If the vomica or imposthume should discharge itself into the cavity of the breast, betwixt the pleura and the lungs, there is no way of getting the matter out but by an incision, as has already been observed. As this operation must always be performed by a surgeon, it is not necessary here to describe it. We shall only add, that it is not so dreadful as people are apt to imagine, and that it is the only chance the patient in this case has for his life.

179

A NERVOUS CONSUMPTION is a wasting or lecay of the whole body, without any considerable degree f fever, cough, or difficulty of breathing. It is attendd with indigestion, weakness, and want of appetite, &c. Those who are of a fretful temper, who indulge in spiitous liquors, or who breathe an unwholesome air, are nost liable to this disease.

We would chiefly recommend, for the cure of a nervous onsumption, a light and nourishing diet, plenty of exerise in a free open air, and the use of such bitters as brace nd strengthen the stomach; as the Peruvian bark, genian root, camomile, hore-hound, &c. These may be inused in water or wine, and a glass of it drunk fretuently.

It will greatly assist the digestion, and promote the ure of this disease, to take twice a-day twenty or thirty lrops of the elixir of vitriol in a glass of wine or water. The chalybeate wine is likewise an excellent medicine in his case. It strengthens the solids, and powerfully assists Nature in the preparation of good blood *.

Agreeable amusements, cheerful company, and riding bout, are however preferable to all medicines in this disrase. For which reason, when the patient can afford it, we would recommend a long journey of pleasure, as the nost likely means to restore his health.

What is called a symptomatic consumption cannot be cured without first removing the disease by which it is occasioned. Thus, when a consumption proceeds from the scrophula or king's evil, from the scurvy, the asthma, the renereal disease, &c. a due 'attention must be paid to the malady from whence it arises, and the regimen and medine directed accordingly.

When excessive evacuations of any kind occasion a consumption, they must not only be restrained, but the patient's strength must be restored by gentle exercise, nourishing diet, and generous cordials. Young and delicate mothers often fall into consumptions, by giving suck too long. As soon as they perceive their strength and appetite begin to fail, they ought immediately to wean the

* See Appendix, Chalybeate wine.

child, or provide another nurse, otherwise they cannot expect a cure.

Before we quit this subject, we would earnestly recommend it to all, as they wish to avoid consumptions, to take as much exercise without doors as they can, to avoid unwholesome air, and to study sobriety. Consumptions owe their present increase not a little to the fashion of sitting up late, eating hot suppers, and spending every evening over a bowl of hot punch or other strong liquors. These liquors, when too freely used, not only hurt the digestion, and spoil the appetite, but heat and inflame the blood, and set the whole constitution on fire.

CHAP. XIX.

OF THE SLOW, OR NERVOUS FEVER.

N ERVOUS fevers have increased greatly of late years in this island, owing doubtless to our different manner of living, and the increase of sedentary employments; as they commonly attack persons of a weak relaxed habit, who neglect exercise, eat little solid food, study hard, or indulge in spiritous liquors.

CAUSES.—Nervous fevers may be occasioned by whatever depresses the spirits, or impoverishes the blood; as grief, fear, anxiety, want of sleep, intense thought, living on poor watery diet, unripe fruits, cucumbers, melons, mushrooms, &c. They may likewise be occasioned by damp, confined, or unwholesome air. Hence they are very common in rainy seasons, and prove most fatal to those who live in dirty low houses, crowded streets, hospitals, jails, or such-like places.

Persons whose constitutions have been broken by excessive venery, frequent salivations, too free an use of purgative medicines, or any other excessive evacuations, are most liable to this disease.

Keeping on wet clothes, lying on the damp ground, excessive fatigue, and whatever obstructs the perspiration, or causes a spasmodic structure of the solids, may likewise occasion nervous fevers. We shall only add, frequent

d great irregularities in diet. Too great abstinence, as ell as excess, is hurtful. Nothing tends so much to prerve the body in a sound state as a regular diet; nor can y thing contribute more to occasion fevers of the worst nd than its opposite.

SYMPTOMS.—Low spirits, want of appetite, weaksss, weariness after motion, watchfulness, deep sighing, id dejection of mind, are generally the fore-runners of is disease. These are succeeded by a quick low pulse, dry tongue without any considerable thirst, chillness id flushing in turns, &c.

After some time the patient complains of a giddiness d pain of the head, has a nausea, with reachings and miting; the pulse is quick, and sometimes intermitting; e urine pale, resembling dead small beer, and the breathg is difficult, with oppression of the breast, and slight alietions of mind.

If towards the ninth, tenth, or twelfth day, the tongue comes more moist, with a plentiful spitting, a gentle arging, or a moisture upon the skin; or if a suppuration ppens in one or both ears, or large postules break out out the lips and nose, there is reason to hope for a favourlle crisis.

But if there is an excessive looseness, or wasting sweats, th frequent fainting fits; if the tongue, when put out, embles excessively, and the extremities feel cold, with futtering or slow creeping pulse; if there is a startg of the tendons, an almost total loss of sight and aring, and an involuntary discharge by stool and line, there is great reason to fear that death is aptoaching.

REGIMEN.—It is very necessary in this disease to keep e patient cool and quiet. The least motion would faque him, and will be apt to occasion weariness, and even ntings. His mind ought not only to be kept easy, but othed, and comforted with the hopes of a speedy recovery. othing is more hurtful in low fevers of this kind than esenting to the patient's imagination gloomy or frightful eas. These of themselves often occasion nervous fevers, d it is not to be doubted but they will likewise aggrate them. The patient must not be kept too low. His strength and spirits ought to be supported by nourishing diet and generous cordials. For this purpose his gruel, panado, or whatever food he takes, must be mixed with wine, according as the symptoms may require. Pretty strong wine-whey, or small negus, sharpened with the juice of orange or lemon, will be proper for his ordinary drink. Mustard-whey is likewise a very proper drink in this fever, and may be rendered an excellent cordial medicine by the addition of a proper quantity of white-wine.*

Wine in this disease, if it could be obtained genuine, is almost the only medicine that would be necessary. Good wine possesses all the virtues of the cordial medicines, while it is free from many of their bad qualities. I say good wine; for however common this article of luxury is now become, it is rarely to be obtained genuine, especially by the poor, who are obliged to purchase it in small quantities.

I have often seen patients in low nervous fevers where the pulse could hardly be felt, with a constant delirium, coldness of the extremities, and almost every other mortal symptom, recover by using in whey, gruel, and negus, a bottle or two of strong wine every day. Good old sound claret is the best, and may be made into negus, or given by itself, as circumstances require.

In a word, the great aim in this disease is to support the patient's strength, by giving him frequently small quantities of the above, or other drinks of a warm and cordial nature. He is not however to be over-heated, either with liquor or clothes; and his food ought to be light, and given in small quantities.

MEDICINE.—Where a nausea, load, and sickness at stomach prevail at the beginning of the fever, it will be necessary to give the patient a gentle vomit. Fifteen or twenty grains of the ipecacuanha in fine powder, or a few spoonfuls of the vomiting julep, † will generally answer this purpose very well. This may be repeated any time before the third or fourth day, if the above symptoms continue. Vomits not only clean the stomach, but, by the general

* See Appendix, Musturd whey.

+ See Appendix, Vomiting Julep.

nock which they give, promote the perspiration, and have any other excellent effects in slow fevers, where there re no signs of inflammation, and nature wants rousing. Such as dare not venture upon a vomit, may clean the owels by a small dose of Turkey rhubarb, or an infusion f senna and manna.

In all fevers, the great point is to regulate the sympoms, so as to prevent them from going to either extreme. Thus, in fevers of the inflammatory kind, where the force if the circulation is too great, or the blood dense, and the bres too rigid, bleeding and other evacuations are necesary. But in nervous fevers, where nature flags, where he blood is vapid and poor, and the solids relaxed, the incet must be spared, and wine, with other cordials, lentifully administered.

It is the more necessary to caution people against bleedog in this disease, as there is generally at the beginning an niversal stricture upon the vessels, and sometimes an opression and difficulty of breathing, which suggest the lea of a plethora, or too great a quantity of blood. I ave known even some of the faculty deceived by their wn feelings in this respect, so far as to insist upon being led, when it was evident from the consequences that the peration was improper.

Though bleeding is generally improper in this disease, yet listering is highly necessary. Blistering-plasters may be pplied at all times of the fever with great advantage. If ne patient is delirious, he ought to be blistered on the neck r head, and it will be the safest course, when the insensiility continues, as soon as the discharge occasioned by one listering plaster abates, to apply another to some other part f the body, and by that means keep up a continual succesion of them till he be out of danger.

I have been more sensible of the advantage of blistering n this than in any other disease. Blistering-plasters not nly stimulate the solids to action, but likewise occasion continual discharge, which may in some measure supply he want of critical evacuations, which seldom happen in his kind of fever. They are most proper, however, eiher towards the beginning, or after some degree of stupor has come on, in which last case it will always be proper to blister the head.

If the patient is costive through the course of this disease, it will be necessary to procure a stool, by giving him every other day a clyster of milk and water, with a little sugar, to which may be added a spoonful of common salt, if the above does not operate.

Should a violent looseness come on, it may be checked by small quantities of Venice treacle, or giving the patient for his ordinary drink the white decoction *.

A miliary eruption sometimes breaks out about the ninth or tenth day. As eruptions are often critical, great care should be taken not to retard Nature's operation in this particular. The eruption ought neither to be checked by bleeding nor other evacuations, nor pushed out by a hot regimen ; but the patient should be supported by gentle cordials, as wine-whey, small negus, sago-gruel with a little wine in it, and such like. He ought not to be kept too warm ; yet a kindly breathing sweat should by no means be checked.

Though blistering and the use of cordial liquors are the chief things to be depended on in this kind of fever : yet, for those who may chuse to use them, we shall mention one or two of the forms of medicine which are commonly prescribed in it \dagger .

In desperate cases, where the hiccup and starting of the tendons have already come on, we have sometimes seen extraordinary effects from large doses of musk, frequently repeated. Musk is doubtless an antispasmodic, and may be given to the quantity of a scruple three or four times a-day, or oftener if necessary. Sometimes it may be proper to add to the musk a few grains of

* See Appendix, White Decoction.

[†] When the patient is low, ten grains of Virginian snake.root, and the same quantity of contrayerva-root, with five grains of Russian castor, all in fine powder, may be made into a bolus with a little of the cordial confection, or syrup of saffron. One of these may be taken every four or five hours.

The following powder may be used with the same intention: Take wild Valerian-root in powder one scruple, saffron and caster each four grains. Mix these by rubbing them together in a mortar, and give one in a cup of wine-whey, three or four times a-day. amphire, and salt of hartshorn, as these tend to promote erspiration and the discharge of urine. Thus fifteen rains of musk, with three grains of camphire, and six rains of salt of hartshorn, may be made into a bolus with little syrup, and given as above.

If the fever should happen to intermit, which it freuently does towards the decline, or if the patient's rength should be wasted with colliquative sweats, &c. will be necessary to give him the Peruvian bark. Half drachm, or a whole drachm, if the stomach will bear it, 'the bark in fine powder, may be given four or five mes a day in a glass of red port or claret. Should the nrk in substance not sit easy on the stomach, an ounce 'it in powder may be infused in a bottle of Lisbon, or henish wine for two or three days, afterwards it may be rained, and a glass of it taken frequently *.

Some give the bark in this and other fevers, where ere are no symptoms of inflammation, without any regard the remission or intermission of the fever. How far ture observations may tend to establish this practice, we lill not pretend to say; but we have reason to believe at the bark is a very universal febrifuge, and that it may administered with advantage in most fevers where eeding is not necessary, or where there are no sympms of topical inflammation.

CHAP. XX.

F THE MALIGNANT, PUTRID, OR SPOTTED FEVER.

THIS may be called the *pestilential fever* of Europe, as in many of its symptoms it bears a great resemblance

* The bark may likewise be very properly administered, along with her cordials, in the following manner: Take an ounce of Peruvian bark, inge-peel half an ounce, Virginian snake-root two drachms, saffron one ichm. Let all of them be powdered, and infused in an English pint of best brandy for three or four days. Afterwards the liquor may be ained, and two tea-spoonfuls of it given three or four times a-day in a uss of small wine or negus.

Aa

to that dreadful disease the plague. Persons of a lax habit, a melancholy disposition, and those whose vigour has been wasted by long fasting, watching, hard labour, excessive venery, frequent salivations, &c. are most liable to it

CAUSES.—This fever is occasioned by foul air, from a number of people being confined in a narrow place, not properly ventilated; from putrid animal and vegitable effluvia, &c. Hence it prevails in camps, jails, hospitals and infirmaries, especially where such places are too much crowded, and cleanliness neglected.

A close constitution of the air, with long rainy or foggy weather, likewise occasions putrid fevers. They often succeed great inundations in low and marshy countries, especially when these are preceded or followed by a hot and sultry season.

Living too much upon animal food, without a proper mixture of vegetables, or eating fish or flesh that has been kept too long, are likewise apt to occasion this kind o fever. Hence sailors on long voyages, and the inhabitants of besieged cities, are very often visited with putrid fevers.

Corn that has been greatly damaged by rainy seasons or long keeping, and water which has become putrid by stagnation, &c. may likewise occasion this fever.

Dead carcases tainting the air, especially in hot seasons are very apt to occasion putrid diseases. Hence this kind of fever often prevails in countries which are the scenes o war and bloodshed. This shews the propriety of removing burying grounds, slaughter-houses, &c. at a prope distance from great towns.

Want of cleanliness is a very general cause of putric fevers. Hence they prevail amongst the poor inhabitant of large towns, who breathe a confined unwholesome air and neglect cleanliness. Such mechanics as carry on dirty employments, and are constantly confined within doors are likewise very liable to this disease.

We shall only add, that putrid, malignant, or spotted fevers are highly infectious, and are therefore often com municated by contagion. For which reason, all person ought to keep at a distance from those affected with such diseases, unless their attendance is absolutely necesary.

187

SYMPTOMS.—The malignant fever is generally preeded by a remarkable weakness or loss of strength, ithout any apparent cause. This is sometimes so great nat the patient can scarce walk, or even sit upright, withut being in danger of fainting away. His mind too is reatly dejected; he sighs, and is full of dreadful appreensions.

There is a nausea, and sometimes a vomiting of bile; a iolent pain of the head, with a strong pulsation or throbbing of the temporal arteries; the eyes often appear red ind inflamed, with a pain at the bottom of the orbit; here is a noise in the ears, the breathing is laborious, and often interrupted with a sigh; the patient complains of a pain about the region of the stomach, and in his back and oins; his tongue is at first white, but afterwards it appears plack and chapped; and his teeth are covered with a black crust. He sometimes passes worms both upwards and downwards, is affected with tremors or shaking, and often becomes delirious.

If blood is let, it appears dissolved, or with a very small degree of cohesion, and soon becomes putrid; the stools smell extremely fœtid, and are sometimes of a greenish, black, or reddish cast. Spots of a pale purple, dun, or black colour, often appear upon the skin, and sometimes there are violent hæmorrhages, or discharges of blood from the mouth, eyes, nose, &c.

Putrid fevers may be distinguished from the inflammatory, by the smallness of the pulse, the great dejection of mind, the dissolved state of the blood, the petechiæ, or purple spots, and the putrid smell of the excrements. They may likewise be distinguished from the low or nervous fever by the heat and thirst being greater, the urine of a higher colour, and the loss of strength, dejection of mind, and all the other symptoms more violent.

It sometimes happens, however, that the inflammatory, nervous, and putrid symptoms are so blended together, as to render it very difficult to determine to which class the fever belongs. In this case the greatest caution and skill are requisite. Attention must be paid to those symptoms which are most prevalent, and both the regimen and medicines adapted to them. Inflammatory and nervous fevers may be converted into malignant and putrid, by too hot a regimen or improper medicines.

The duration of putrid fevers is extremely uncertain; sometimes they terminate between the seventh and fourteenth day, and at other times they are prolonged for five or six weeks. Their duration depends greatly upon the constitution of the patient, and the manner of treating the disease.

The most favourable symptoms are, a gentle looseness after the fourth or fifth day, with a warm mild sweat. These, when continued for a considerable time, often carry off the fever, and should never be imprudently stopped. Small miliary pustules appearing between the petechiæ or purple spots are likewise favourable, as also hot scabby eruptions about the mouth and nose. It is a good sign when the pulse rises upon the use of wine, or other cordials, and the nervous symptoms abate ; deafness coming on towards the decline of the fever, is likewise often a favourable symptom *, as are abscesses in the groin or parotid glands.

Among the unfavourable symptoms may be reckoned an excessive looseness, with a hard swelled belly; large black or livid blotches breaking out upon the skin; apthæ in the mouth; cold clammy sweats; blindness; change of the voice; a wild starting of the eyes; difficulty of swallowing; inability to put out the tongue; and a constant inclination to uncover the breast. When the sweat and saliva are tinged with blood, and the urine is black, or deposits a black sooty sediment, the patient is in great danger. Starting of the tendons, and fœtid, ichorous, involuntary stools, attended with coldness of the extremities, are generally the forerunners of death.

REGIMEN.—In the treatment of this disease we ought to endeavour as far as possible to counteract the putrid tendency of the humours; to support the patient's streng h and spirits; and to assist Nature in expelling the cause of this disease, by gently promoting perspiration and the other evacuations.

* Deafness is not always a favourable symptom in this disease. Perhaps it is only so when occasioned by abscesses formed within the ears.

PUTRID, OR SPOTTED FEVER.

It has been observed, that putrid fevers are often occaoned by unwholesome air, and of course they must be gravated by it. Care should therefore be taken to prent the air from stagnating in the patient's chamber, to ep it cool, and renew it frequently, by opening the ors or windows of some adjacent apartment. The breath d perspiration of persons in perfect health soon render e air of a small apartment noxious; but this will soonhappen from the perspiration and breath of a person nose whole mass of humours are in a putrid state.

Besides the frequent admission of fresh air, we would commend the use of vinegar, verjuice, juice of lemon, ville orange, or any kind of vegetable acid that can be ost readily obtained. These ought frequently to be inkled upon the floor, the bed, and every part of the om. They may also be evaporated with a hot iron, or boiling, &c. The fresh skins of lemons or oranges ght otherwise to be laid in different parts of the room, I they should be frequently held to the patient's nose. e use of acids in this manner would not only prove very reshing to the patient, but would likewise tend to vent the infection from spreading among those who atld him. Strong scented herbs, as rue, tansy, rosemary, rm-wood, &c. may likewise be laid in different parts the house, and smelled to by those who go near the eent.

The patient must not only be kept cool, but likewise et and easy. The least noise will affect his head, and smallest fatigue will be apt to make him faint.

ew things are of greater importance in this disease n acids, which ought to be mixed with all the patient's I as well as drink. Orange, lemon, or vinegar whey, all very proper, and may be drunk by turns, accordto the patient's inclination. They may be rendered lial by the addition of wine in such quantity as the pat's strength seems to require. When he is very low, may drink negus, with only one half water, and sharpi with the juice of orange or lemon. In some cases a s of wine may now and then be allowed. The most per wine is Rhenish; but if the body be open, red or claret is to be preferred. When the body is bound, a tea spoonful of the cream of tartar may be put into a cup of the patient's drink, a there is occasion; or he may drink a decoction of tamarinds, which will both quench his thirst, and promote a discharge by stool.

If camomile-tea will sit upon his stomach, it is a very proper drink in this disease. It may be sharpened by ad ding to every cup of the tea ten or fifteen drops of th elixir of vitriol.

The food must be light, as panado or groat-gruel, t which a little wine may be added, if the patient be wea and low; and they ought all to be sharpened with th juice of orange, the jelly of currants, or the like. Th patient ought likewise to eat freely of ripe fruits, as roast ed apples, currant or goose-berry tarts, preserved cherrie or plumbs, &c.

Taking a little food or drink frequently, not only sup ports the spirits, but counteracts the putrid tendency the humours; for which reason the patient ought fre quently to be sipping small quantities of some of the acliquors mentioned above, or any that may be more agree able to his palate, or more readily obtained.

If he is delirious, his feet and hands ought to be fr quently fomented with a strong infusion of camomiflowers. This, or an infusion of the bark, to such as ca afford it, cannot fail to have a good effect. Fomentatio of this kind not only relieve the head, by relaxing t vessels in the extremities, but as their contents are absored, and taken into the system, they may assist in pr venting the putrescency of the humours.

MEDICINE.—If a vomit be given at the beginning this fever, it will hardly fail to have a good effect; but the fever has gone on for some days, and the sympton are violent, vomits are not quite so safe. The body, ho ever, is always to be kept gently open by clysters, or m laxative medicines.

Bleeding is seldom necessary in putrid fevers. If the be signs of an inflammation, it may sometimes be perm ted at the first onset; but the repetition of it general proves hurtful.

Blistering plasters are never to be used, unless in

PUTRID, OR SPOTTED FEVER.

eatest extremities. If the petechiæ, or spots, should sudonly disappear, the patient's pulse sink remarkably, and delirium, with other bad symptoms, come on, blisterg may be permitted. In this case the blistering plasters e to be applied to the head, and inside of the legs or ighs. But as they are sometimes apt to occasion a ganene, we would rather recommend warm cataplasms or pultices of mustard and vinegar to be applied to the feet, wing recourse to blisters only in the utmost extremities. It is common in the beginning of this fever to give the metic tartar in small doses, repeated every second or third pur, till it shall either vomit, purge, or throw the patient ina sweat. This practice is very proper, provided it be not ushed so far as to weaken the patient.

A very ridiculous notion has long prevailed, of expelling e poisonous matter of malignant diseases by trifling dosof cordial or alexipharmic medicines. In consequence this notion, the contrayerva root, the cordial confection, e mithridate, &c. have been extolled as infallible remeces. There is reason however to believe, that these selnom do much good. Where cordials are necessary, we now none that is superior to good wine; and therefore rain recommend it both as the safest and best. Wine, th acids and antiseptics, are the only things to be relied in the cure of malignant fevers.

In the most dangerous species of this disease, when it is tended with purple, livid, or black spots, the Peruvian ink must be administered. I have seen it, when joined th acids, prove successful, even in cases where the pechiæ had the most threatening aspect. But, to answer is purpose, it must not only be given in large doses, but ily persisted in.

The best method of administering the bark is certainly substance. An ounce of it in powder may be mixed ith half an English pint of water, and the same quantity red wine, and sharpened with the elixir, or the spirit of triol, which will both make it sit easier on the stomach, ad render it more beneficial. Two or three ounces of the rup of lemon may be added, and two table-spoonfuls of e mixture taken every two hours, or oftener, if the stoach is able to bear it. Those who cannot take the bark in substance may infusit in wine, as recommended in the preceding disease.

If there be a violent looseness, the bark must be boiled in red wine with a little cinnamon, and sharpened with the elixir of vitriol, as above. Nothing can be more beneficia in this kind of looseness than plenty of acids, and such things as promote a gentle perspiration.

If the patient be troubled with vomiting, a dram of the salt of wormwood, dissolved in an ounce and half of fresh lemon-juice, and made into a draught, with an ounce o simple cinnamon water, and a bit of sugar, may be given and repeated as often as it is necessary.

If swellings of the glands appear, their supperation is to be promoted by the application of poultices, ripening cataplasms, &c. And as soon as there is any appearance of matter in them, they ought to be laid open, and the poultices continued.

I have known large ulcerous sores break out in various parts of the body, in the decline of this fever, of a livit gangrenous appearance, and a most putrid cadaverous smell. These gradually healed, and the patient recovered, by the plentiful use of Peruvian bark and wine, sharpened with the spirits of vitriol.

For preventing putrid fevers we would recommend a strict regard to cleanliness; a dry situation; sufficient exercise in the open air; wholesome food, and a moderate use of generous liquors. Infection ought above all things to be avoided. No constitution is proof against it. I have known persons seized with a putrid fever, by only making a single visit to a patient in it; others have caught it by lodging for one night in a town where it prevailed; and some by attending the funerals of such as died of it *.

When a putrid fever seizes any person in a family, the

* The late Sir John Pringle expressed a concern lest these cautions should prevent people from attending their friends or relations when afflicted with putrid fevers. I told him I meant only to discourage unnecessary attendance, and mentioned a number of instances where putric fevers had proved fatal to persons, who were rather hurtful than beneficial to the sick. This sagacious physician agreed with me, in thinking that a good doctor and a careful nurse were the only necessary attendants; and that all others, not only endangered themselves, but generally, by their solicitude and ill-directed care, hurt the sick. eatest attention is necessary to prevent the disease from reading. The sick ought to be placed in a large apartent, as remote from the rest of the family as possible; ought likewise to be kept extremely clean, and should we fresh air frequently let into his chamber; whatever mes from him should be immediately removed, his linshould be frequently changed, and those in health ought avoid all unnecessary communication with him.

Any one who is apprehensive of having caught the inction, ought immediately to take a vomit, and to work off by drinking plentifully of camomile tea. This may repeated in a day or two, if the apprehensions still connue, or any unfavourable symptoms appear.

The person ought likewise to take an infusion of the urk and camomile flowers for his ordinary drink; and fore he goes to bed, he may drink an English pint of etty strong negus, or a few glasses of generous wine. have been frequently obliged to follow this course, when alignant fevers prevailed, and have likewise recommendl it to others with constant success.

People generally fly to bleeding and purging as antiotes against infection; but these are so far from securg them, that they often, by debilitating the body, inease the danger.

Those who wait upon the sick in putrid fevers, ought ways to have a piece of spunge or a handkerchief dipt venegar, or juice of lemon, to smell to while near the itient. They ought likewise to wash their hands, and, possible, to change their clothes, before they go into ompany.

CHAP. XXI.

OF THE MILIARY FEVER.

THIS fever takes its name from the small pustules or bladders which appear on the skin, resembling, in nape and size, the seeds of millet. The pustules are either ed or white, and sometimes both are mixed together. The whole body is sometimes covered with pustules; but they are generally more numerous where the sweat is most abundant, as on the breast, the back, &c. A gentle sweat, or moisture on the skin, greatly promotes the eruption; but, when the skin is dry, the eruption is both more painful and dangerous.

Sometimes this is a primary disease ; but it is much oftener only a symptom of some other malady, as the smallpox, measles, ardent, putrid, or nervous fever, &c. In all these cases it is generally the effect of too hot a regimen or medicines.

The miliary fever chiefly attacks the idle and the phlegmatic, or persons of a relaxed habit. The young and the aged are more liable to it than those in the vigour and prime of life. It is likewise more incident to women than men, especially the delicate and the indolent, who, neglecting exercise, keep continually within doors, and live upon weak watery diet. Such females are extremely liable to be seized with this disease in childbed, and often lose their lives by it.

CAUSES.—The miliary fever is sometimes occasioned by violent passions or affections of the mind; as excessive grief, anxiety, thoughtfulness, &c. It may likewise be occasioned by excessive watching, great evacuations, a weak watery diet, rainy seasons, eating too freely of cold, crude, unripe fruits, as plums, cherries, cucumbers, melons, &c. Impure waters, or provisions which have been spoiled by rainy seasons, long keeping, &c. may likewise cause miliary fevers. They may also be occasioned by the stoppage of any customary evacuations, as issues, setons, ulcers, the bleeding piles in men, or the menstrual flux in women, &c.

This disease in childbed-women in sometimes the effect of great costiveness during pregnancy; it may likewise be occasioned by their excessive use of green trash, and other unwholesome things, in which pregnant women are too apt to indulge. But its most general cause is indolence. Such women as lead a sedentary life, especially during pregnancy, and at the same time live grossly, can hardly escape this disease in childbed. Hence it proves extremely fatal to women of fashion, and likewise to those women in manufacturing towns, who, in order to assist their hus-

ands, sit close within doors for almost the whole of their me. But among women who are active and laborious, ho live in the country, and take sufficient exercise withut doors, this disease is very little known.

SYMPTOMS.—When this is a primary disease, it akes its attack, like most other eruptive fevers, with a ight shivering, which is succeeded by heat, loss of rength, faintishness, sighing, a low quick pulse, diffiilty of breathing, with great anxiety and oppression of e breast. The patient is restless, and sometimes delious; the tongue appears white, and the hands shake, ith often a burning heat in the palms; and in childbedomen the milk generally goes away, and the other disiarges stop.

The patient feels an itching or pricking pain under the in, after which innumerable small pustules of a red or hite colour begin to appear. Upon this the symptoms enerally abate, the pulse becomes more full and soft, the in grows moister, and the sweat, as the disease advances gins to have a peculiar fœtid smell; the great load on the breast, and oppression of the spirits, generally go f, and the customary evacuations gradually return. bout the sixth or seventh day from the eruption, the istules begin to dry and fall off, which occasions a very sagreeable itching in the skin.

It is impossible to ascertain the exact time when the pusles will either appear or go off. They generally come it on the third or fourth day, when the eruption is critil; but, when symptomatical, they may appear at any ne of the disease.

Sometimes the pustules appear and vanish by turns. Then that is the case, there is always danger; but when ey go in all of a sudden, and do not appear again, the unger is very great.

In childbed-women the pustules are commonly at first led with clear water, afterwards they grow yellowish. ometimes they are interspersed with pustules of a red cour. When these only appear the disease goes by the name a rash.

REGIMEN.-In all eruptive fevers, of whatever kind, ie chief point is to prevent the sudden disappearing of the pustules, and to promote their maturation. For this purpose the patient must be kept in such a temperature, as neither to push out the eruption too fast, nor to cause it to retreat prematurely. The diet and drink ought therefore to be in a moderate degree nourishing and cordial; but neither strong nor heating. The Patient's chamber ought neither to be kept too hot nor cold; and he should not be too much covered with clothes. Above all, the mind is to be kept easy and cheerful. Nothing so certainly makes an eruption go in as fear, or the apprehension of danger.

The food must be weak chicken broth, with bread, panado, sago, or groat gruel, &c. to a gill of which may be added a spoonful or two of wine, as the patient's strength requires, with a few grains of salt and a little sugar. Good apples roasted or boiled, with other ripe fruits of an opening cooling nature, may be eaten.

The drink may be suited to the state of the patient's strength and spirits. If these be pretty high, the drink ought to be weak; as water-gruel, balm-tea, or the decoction mentioned below*.

When the patient's spirits are low, and the eruption does not rise sufficiently, his drink must be a little more generous; as wine whey, or small negus, sharpened with the juice of orange or lemon, and made stronger or weaker as circumstances may require.

Sometimes the miliary fever approaches towards a putrid nature, in which case the patient's strength must be supported with generous cordials, joined with acids; and, if the degree of putrescence be great, the Peruvian bark must be administered. If the head be much affected, the body must be kept open by emollient clysters [†].

* Take two ounces of the shavings of hartshorn, and the same quantity of sarsaparilla, boil them in two English quarts of water. To the strained decoction add a little white sugar, and let the patient take it for his ordinary drink.

† In the commercium literarium for the year 1735 we have the history of an epidemical miliary fever, which raged at Strasburgh in the months of November, December, and January; from which we learn the nenessity of a temperate regimen in this malady, and likewise that physicians are not always the first who discover the proper treatment of diseases. "This fever made terrible havock, even among men of robust

MEDICINE .- If the food and drink be properly regusted, there will be little occasion for medicine in this disase. Should the eruption however not rise, or the spiits flag, it will not only be necessary to support the patient ith cordials, but likewise to apply blistering plasters. 'he most proper cordial, in this case, is good wine, which may either be taken in the patient's food or drink ; nd if there be signs of putrescence, the bark and acids nay be mixed with wine, as directed in the putrid fever. Some recommend blistering through the whole course of his disease; and where nature flags, and the eruption omes and goes, it may be necessary to keep up a stimuus, by a continual succession of small blistering plasters; out we would not recommend above one at a time. If lowever the pulse should sink remarkably, the pustules all in, and the head be affected, it will be necessary to pply several blistering plasters to the most sensible parts, s the inside of the legs and thighs, &c.

Bleeding is seldom necessary in this disease, and someimes it does much hurt, as it weakens the patient, and epresses his spirits. It is therefore never to be attempted inless by the advice of a physician. We mention this, because it has been customary to treat this disease in childbed women by plentiful bleeding, and other evacuations, s if it were highly inflammatory. But this practice is generally very unsafe. Patients in this situation bear evacutions very ill. And indeed the disease seems often to be nore of a putrid than of an inflammatory nature.

onstitutions, and all medicines proved in vain. They were seized in n instant with shivering, yawning, stretching, and pains in the back, ucceeded by a most intense heat; at the same time there was a great oss of strength and appetite. On the seventh or ninth day the miliary ruptions appeared, or spots like flea-bites, with great anxiety, a deliium, restlessness, and tossing in bed. Bleeding was fatal. While natters were in this unhappy situation, a midwife, of her own accord, gave to a patient, in the height of the disease, a clyster of rain water md butter without salt, and for his ordinary drink a quart of spring vater, half a pint of generous wine, the juice of a lemon, and six ounces of the whitest sugar, gently boiled, till a scum arose, and this with great success; for the belly was soon loosened, the grievous symptoms ranished, and the patient was restored to his senses, and snatched from he jaws of death." This practice was imitated by others with the ike happy effects. Though this fever is often occasioned in childbed-women by too hot a regimen, yet it would be dangerous to leave that off all of a sudden, and have recourse to a very cool regimen, and large evacuations. We have reason to believe, that supporting the patient's spirits, and promoting the natural evacuations, is here much safer than to have recourse to artificial ones, as these, by sinking the spirits, seldom fail to increase the danger.

If the disease proves tedious, or the recovery slow, we would recommend the Peruvian bark, which may either be taken in substance, or infused in wine or water, as the patient inclines.

The miliary fever, like other eruptive diseases, requires gentle purging, which should not be neglected, as soon as the fever is gone off, and the patient's strength will permit.

To prevent this disease, a pure dry air, sufficient exercise, and wholesome food, are necessary. Pregnant women should guard against costiveness, and take daily as much exercise as they can bear, avoiding all green trashy fruits, and other unwholesome things; and when in childbed, they ought strictly to observe a cool regimen.

CHAP. XXII.

OF THE REMITTING FEVER.

THIS fever takes its name from a remission of the symptoms, which happens sometimes sooner, and sometimes later, but generally before the eighth day. The remission is commonly preceded by a gentle sweat, after which the patient seems greatly relieved, but in a few hours the fever returns. These remissions return at very irregular periods, and are sometimes of longer, sometimes of shorter duration; the nearer however that the fever approaches to a regular intermittent, the danger is the less.

CAUSES.—Remitting fevers prevail in low marshy countries abounding with wood and stagnating water; but they prove most fatal in places where great heat and moisture are combined, as in some parts of Africa, the rovince of Bengal in the East Indies, &c. where remitng fevers are generally of a putrid kind, and prove very tal. They are most frequent in close calm weather, espeally after rainy seasons, great inundations, or the like. o age, sex, or constitution, is exempted from the attack 'this fever; but it chiefly seizes persons of a relaxed hat, who live in low dirty habitations, breathe an impure agnating air, take little exercise, and use unwholesome et.

SYMPTOMS.—The first symptoms of this fever are nerally yawning, stretching, pain, and giddiness in the ad, with alternate fits of heat and cold. Sometimes the tient is affected with a delirium at the very first attack. here is a pain, and sometimes a swelling, about the reon of the stomach, the tongue is white, the eyes and skin equently appear yellow, and the patient is often afflicted ith bilious vomitings. The pulse is sometimes a little ard, but seldom full, and the blood, when let, rarely ews any signs of inflammation. Some patients are exedingly costive, and others are afflicted with a very trouesome looseness.

It is impossible to describe all the symptoms of this disse, as they vary according to the situation, the season the year, and the constitution of the patient. They ay likewise be greatly changed by the method of treatent, and by many other circumstances too tedious to ention. Sometimes the bilious symptoms predominate, metimes the nervous, and at other times the putrid. or is it at all uncommon to find a succession of each of ese, or even a complication of them at the same time, in e same person.

REGIMEN.—The regimen must be adapted to the preiling symptoms. When there are any signs of inflammaon, the diet must be slender, and the drink weak and diting. But when nervous or putrid symptoms occur, it Il be necessary to support the patient with food and litors of a more generous nature, such as are recommendin the immediately preceding fevers. We must hower be very cautious in the use of things of a heating quay, as this fever is frequently changed into a *continual* by hot regimen, and improper medicines. Whatever the symptoms are, the patient ought to be kept cool, quiet, and clean. His apartment, if possible, should be large, and frequently ventilated by letting in fresh air at the doors or windows. It ought likewise to be sprinkled with vinegar, juice of lemon, or the like. His linen, bed-clothes, &c. should be frequently changed, and all his excrements immediately removed. Though these things have been recommended before, we think it necessary to repeat them here, as they are of more importance to the sick than practitioners are apt to imagine *.

MEDICINE.—In order to cure this fever, we must endeavour to bring it to a regular intermission. This intention may be promoted by bleeding, if there be any signs of inflammation; but when that is not the case, bleeding ought by no means to be attempted, as it will weaken the patient and prolong the disease. A vomit, however, will seldom be improper, and is generally of great service. Twenty or thirty grains of ipecacuanha will answer this purpose very well; but, where it can be obtained, we would rather recommend a grain or two of tartar emetic, with five or six grains of ipecacuanha, to be made into a draught, and given for a vomit. This may be repeated once or twice at proper intervals, if the sickness or nausea continue.

The body ought to be kept open either by clysters or gentle laxatives, as weak infusions of senna and manna, small doses of the lenitive electuary, cream of tartar, ta-

* The ingenious Dr Lind, of Edinburgh, in his inaugural dissertation concerning the putrid remitting fever of Bengal, has the following observation; "Indusia, lodices, ac stragula, sæpius sunt mutanda, ac aëri exponenda; fœces sordesque quam primum removendæ; oportet etiam ut loca quibus ægri decumbunt sint salubria, et aceto conspersa; denique ut ægris cura quanta maxima prospiciatur. Compertum ego habeo, medicum hæc sedulo observantem, quique ea exequi potest, multo magis ægris profuturum, quam medicum peritiorem hisce commodis destitutum."

"The patient's shirt, bed-clothes, and bedding, ought frequently to be changed, and exposed to the air, and all his excrements immediately removed; the bed-chamber should he well ventilated, and frequently sprinkled with vinegar; in short, every attention should be paid to the patient. I can affirm, that a physician who puts these in practice will much oftener succeed than one who is even more skilful, but has not opportunity of using these means." arinds, stewed prunes, or the like; but all strong or astic purgatives are to be carefully avoided.

By this course the fever in a few days may generally brought to a pretty regular or distinct intermission, in ich case the Peruvian bark may be administered, and it il seldom fail to perfect the cure. It is needless here to peat the methods of giving the bark, as we have already d occasion frequently to mention them.

The most likely way to avoid this fever is to use a wholeme and nourishing diet, to pay the most scrupulous atntion to cleanliness, to keep the body warm, to take fficient exercise, and in hot countries to avoid damp siations, night air, evening dews, and the like. In counes where it is endemical, the best preventive medicine nich we can recommend is the Peruvian bark, which any either be chewed, or infused in brandy or wine, &c. me recommend smoaking tobacco as very beneficial in arshy countries, both for the prevention of this and inmitting fevers.

CHAP. XXIII.

OF THE SMALL-POX.

CHIS disease, which originally came from Arabia, is now become so general, that very few escape it at one ne of life or another. It is a most contagious malady; d has for many years proved the scourge of Europe.

The small-pox generally appear towards the spring. ney are very frequent in summer, less so in autumn, and ist of all in winter. Children are most liable to this disse; and those whose food is unwholesome, who want oper exercise, and abound with gross humours, run the eatest hazard from it.

The disease is distinguished into the distinct and confluit kind; the latter of which is always attended with daner. There are likewise other distinctions of the smallox; as the crystaline, the bloody, &c.

CAUSES.—The small-pox is commonly caught by fection. Since the disease was first brought into Europe,

the infection has never been wholly extinguished, nor have any proper methods, as far as I know, been taken for that purpose; so that now it has become in a manner constitutional. Children who have over-heated themselves by running, wrestling, &c. or adults after a debauch, are most apt to be seized with the small-pox.

SYMPTOMS .- This disease is so generally known, that a minute description of it is unnecessary. Children commonly look a little dull, seem listless and drowsy for a few days before the more violent symptoms of the smallpox appear. They are likewise more inclined to drink than usual, have little appetite for solid food, complain of weariness, and, upon taking exercise, are apt to sweat .----These are succeeded by slight fits of cold and heat in turns, which, as the time of the eruption approaches, become more violent, and are accompanied with pains of the head and loins, vomiting, &c. The pulse is quick, with a great heat of the skin, and restlessness. When the patient drops asleep, he wakes in a kind of horror, with a sudden start, which is a very common symptom of the approaching eruption ; as are also convulsion fits in very young children.

About the third or fourth day from the time of sickening, the small-pox generally begin to appear; sometimes indeed they appear sooner, but that is no favourable symptom. At first they very nearly resemble flea-bites, and are soonest discovered on the face, arms, and breast.

The most favourable symptoms are a slow eruption, and an abatement of the fever as soon as the pustules appear. In a mild, distinct kind of small-pox, the pustules seldom appear before the fourth day from the time of sickening, and they generally keep coming out gradually for several days after. Pustules which are distinct, with a florid red basis, and which fill with thick purulent matter, first of a whitish, and afterward of a yellowish colour, are the best.

A livid brown colour of the pustules is an unfavourable symptom; as also when they are small and flat, with black specks in the middle. Pustules which contain a thin watery ichor are very bad. A great number of pos the face is always attended with danger. It is likewise very bad sign when they run into one another.

It is a most unfavourable symptom when petechiæ, or mrple, brown, or black spots are interspersed among the instules. These are signs of a putrid dissolution of the good, and shew the danger to be very great. Bloody ools or urine, with a swelled belly, are bad symptoms; is also a continual strangury. Pale urine and a violent probbing of the arteries of the neck are signs of an apcoaching delirium, or of convulsion-fits. When the face poes not swell, or falls before the pox come to maturity, is very unfavourable. If the face begins to fall about ae eleventh or twelfth day, and at the same time the hands nd feet begin to swell, the patient generally does well; ut when these do not succeed to each other, there is eason to apprehend danger. When the tongue is coverd with a brown crust, it is an unfavourable symptom. cold shivering fits coming on at the height of the disease we likewise unfavourable. Grinding of the teeth, when proceeds from an affection of the nervous system, is a and sign; but sometimes it is occasioned by worms, or a isordered stomach.

REGIMEN.—When the first symptoms of the smallcox appear, people are ready to be alarmed, and often fly bo the use of medicine, to the great danger of the patient's ffe. I have known children, to appease the anxiety of their parents, bled, blistered, and purged, during the feer which preceded the eruption of the small-pox, to such degree, that Nature was not only disturbed in her openation, but rendered unable to support the pustules afer they were out; so that the patient, exhausted by mere wacuations, sunk under the disease.

When convulsions appear, they give a dreadful alarm. mmediately some nostrum is applied, as if this were a orimary disease; whereas it is only a symptom, and far rom being an unfavourable one, of the approaching eruption. As the fits generally go off before the actual appearance of the small-pox, it is attributed to the medicine, which by this means acquires a reputation without any merit.*

* Convulsion-fits are no doubt very alarming, but their effects are ofen salutary. They seem to be one of the means made use of by NaAll that is, generally speaking, necessary during the eruptive fever, is to keep the patient cool and easy, allowing him to drink freely of some weak diluting liquors; as balm-tea, barley-water, clear whey, gruels, &c. He should not be confined to bed, but should sit up as much as he is able, and should have his feet and legs frequently bathed in lukewarm water. His food ought to be very light, and he should be as little disturbed with company as possible.

Much mischief is done at this period by confining the patient too soon to his bed, and plying him with warm cordials or sudorific medicines. Every thing that heats and inflames the blood increases the fever, and pushes out the pustules prematurely. This has numberless ill effects. It not only increases the number of pustules, but likewise tends to make them run into one another; and when they have been pushed out with too great violence, they generally fall in before they come to maturity.

The good women, as soon as they see the small-pox begin to appear, commonly ply their tender-charge with cordials, saffron, and marigold-teas, wine, punch, and even brandy itself. All these are given with a view, as they term it, to throw out the eruption from the heart.— This, like most other popular mistakes, is the abuse of a very just observation, that when there is a moisture on the skin, the pox rise better, and the patient is easier, than when it continues dry and parched. But that is no reason for forcing the patient into a sweat. Sweating never relieves unless where it comes spontaneously, or is the effect of drinking weak diluting liquors.

Children are often so peevish, that they will not lie abed without a nurse constant'y by them. Indulging them in this, we have reason to believe, has many bad effects both upon the nurse and child. Even the natural heat of the nurse cannot fail to augment the fever of the child;

ture for breaking the force of a fever. I have always observed the fever abated, and sometimes quite removed, after one or more convulsionfits. This readily accounts for convulsions being a favourable symptom in the fever which precedes the eruption of the small-pox, as every thing that mitigates this fever lessens the eruption.

time is the two sectors as a set all all the

t if she too proves feverish, which is often the case, the nger must be increased *.

Laying several children who have the small-pox in the me bed has many ill consequences. They ought if posble never to be in the same chamber, as the perspiran, the heat, the smell, &c. all tend to augment the rer, and to heighten the disease. It is common among a poor to see two or three children lying in the same bed, th such a load of pustules that even their skins stick tother. One can hardly view a scene of this kind without ing sickened by the sight. But how must the effluvia ect the poor patients, many of whom perish by this age ! †

A very dirty custom prevails among the lower class of ople, of allowing children in the small-pox to keep on e same linen during the whole period of that loathsome sease. This is done lest they should catch cold ; but it is many ill consequences. The linen becomes hard by e moisture which it absorbs, and frets the tender skin. likewise occasions a bad smell, which is very pernicious, oth to the patient and those about him ; besides, the th and sordes which adhere to the linen being resorbed, taken up again into the body, greatly augment the disse.

A patient should not be suffered to be dirty in an inter-Il disease, far less in the small-pox. Cutaneous disorders

* I have known a nurse, who had the small-pox before, so infected by ing constantly a-bed with a child in a bad kind of small-pox, that she d not only a great number of pustules which broke out all over her dy, but afterwards a malignant fever, which terminated in a number of posthumes or boils, and from which she narrowly escaped with her life. 'e mention this to put others upon their guard against the danger of this rulent infection.

⁺ This observation is likewise applicable to hospitals, work-houses, &c. here numbers of children happen to have the small-pox at the same time. have seen above forty children cooped up in one apartment all the while ey had this disease, without any of them being admitted to breathe the esh air. No one can be at a loss to see the impropriety of such conduct. ought to be a rule, not only in hospitals for the small-pox, but likewise r other diseases, that no patient should be within sight or hearing of aother. This is a matter to which too little regard is paid. In most hostals and infirmaries, the sick, the dying, and the dead, are often to be seen the same apartment. are often occasioned by nastiness alone, and are always increased by it. Were the patient's linen to be changed every day, it would greatly refresh him. Care indeed is to be taken that the linen be thoroughly dry. It ought likewise to be put on when the patient is most cool.

So strong is the vulgar prejudice in this country, notwithstanding all that has been said against the hot regimen, in the small-pox, that numbers still fall a sacrifice to that error. I have seen poor women travelling in the depth of winter, and carrying their children along with them in the small-pox, and have frequently observed others begging by the way-side, with infants in their arms covered with the pustules; yet I could never learn that one of these children died by this sort of treatment. This is certainly a sufficient proof of the safety at least, of exposing patients in the small-pox to the open air. There can be no reason however for exposing them to public view. It is now very common in the environs of great towns to meet patients in the small-pox on the public walks. This practice, however well it may suit the purposes of boasting inoculators, is dangerous to the citizens, and contrary to the laws of humanity and sound policy.

The food in this disease ought to be very light, and of a cooling nature, as panado, or bread, boiled with equal quantities of milk and water, good apples roasted or boiled with milk, and sweetened with a little sugar, or such like.

The drink may be equal parts of milk and water, clear sweet whey, barley-water, or thin gruel, &c. After the pox are full, butter-milk, being of an opening and cleansing nature, is a very proper drink.

MEDICINE.—This disease is generally divided into four different periods, viz. the fever which precedes the eruption, the eruption itself, the suppuration, or maturation of the pustules, and the secondary fever.

It has already been observed, that little more is necessary during the primary fever than to keep the patient cool and quiet, allowing him to drink diluting liquors, and bathing his feet frequently in warm water. Though this be generally the safest course that can be taken with infants, yet adults of a strong constitution and plethoric habit

OF THE SMALL-POX.

netimes require bleeding. When a full pulse, a dry n and other symptoms of inflammation render this opeion necessary, it ought to be performed; but, unless symptoms are urgent, it is safer to let it alone; if the ly is bound, emollient clysters may be thrown in.

If there is a great nausea, or inclination to vomit, weak nomile-tea or lukewarm water may be drunk, in order clean the stomach. At the beginning of a fever, Nae generally attempts a discharge, either upwards or wnwards, which, if promoted by gentle means, would d greatly to abate the violence of the disease.

Though every method is to be taken during the primary er, by a cool regimen, &c. to prevent too great an erupn; yet after the pustules have made their appearance, business is to promote the suppuration, by diluting nk, light food, and, if Nature seems to flag, by generous dials. When a low, creeping pulse, faintishness, and at loss of strength, render cordials necessary, we would ommend good wine, which may be made into negus, h an equal quantity of water, and sharpened with the ce of orange, the jelly of currants, or the like. Wineey, sharpened as above, is likewise a proper drink in this e; great care however must be taken not to overheat the ient by any of these things. This, instead of promoting, ald retard the eruption.

The rising of the small-pox is often prevented by the lence of the fever; in this case the cool regimen is strictto be observed. The patient's chamber must not only kept cool, but he ought likewise frequently to be taken of bed, and to be lightly covered with clothes while it.

Excessive restlessness often prevents the rising and fillof the small-pox. When this happens, gentle opiates necessary. These however ought always to be adminired with a sparing hand. To an infant, a tea-spoonful the syrup of poppies may be given every five or six hours it has the desired effect. An adult will require a tableonful in order to answer the same purpose.

f the patient be troubled with a strangury, or suppresn of the urine, which often happens in the small-pox, he ould be frequently taken out of bed, and, if he be able, should walk across the room with his feet bare. When he cannot do this, he may be frequently set on his knees in bed, and should endeavour to pass his urine as often as he can. When these do not succeed, a tea-spoonful of the sweet spirits of nitre may be occasionally mixed with his drink. Nothing more certainly relieves the patient, or is more beneficial in the small-pox, than a plentiful discharge of urine.

If the mouth be foul, and the tongue dry and chapped, it ought to be frequently washed, and the throat gargled with water and honey, sharpened with a little vinegar or currant jelly.

During the rising of the small pox, it frequently happens that the patient is eight or ten days without a stool. This not only tends to heat and inflame the blood, but the fæces, by lodging so long in the body, becomes acrid, and even putrid; from whence bad consequences must ensue. It will therefore be proper, when the body is bound, to throw in an emollient clyster every second or third day, through the whole course of the disease. This will greatly cool, and relieve the patient.

When petechiæ, or purple, black, or livid spots appear among the small-pox, the Peruvian bark must immediately be administered in as large doses as the patient's stomach can bear. For a child, two drachms of the bark in powder may be mixed in three ounces of common water, one ounce of simple cinnamon water, and two ounces of the syrup of orange or lemon. This may be sharpened with the spirits of vitriol, and a table-spoonful of it given every hour. If it be given to an adult in the same form, he may take at least three or four spoonfuls every hour. This medicine ought not to be trifled with, but must be administered as frequently as the stomach can bear it; in which case it will often produce very happy effects. 1 have frequently seen the petechiæ disappear, and the small-pox, which had a very threatening aspect, rise and fill with laudable matter, by the use of the bark and acids.

The patient's drink ought likewise in this case to be generous, as wine or strong negus acidulated with spirits of vitriol, vinegar, the juice of lemon, jelly of currants, or such like. His food must consist of apples roasted or iled, preserved cherries, plums, and other fruits of an id nature.

The bark and acids are not only necessary when the techiæ or putrid symptoms appear, but likewise in the mphatic or crystalline small-pox, where the matter is in, and not duly prepared. The Peruvian bark seems possess a singular power of assisting Nature in preparg laudable pus, or what is called good matter; consenently it must be beneficial both in this and other diseas-, where the crisis depends on a suppuration. I have ofm observed where the small-pox were flat, and the matter ntained in them quite clear and transparent, and where first they had the appearance of running into one anoer, that the Peruvian bark, acidulated as above, chanid the colour and consistence of the matter, and produced e most happy effects.

When the eruption subsides suddenly, or, as the good omen term it, when the small-pox *strike in*, before they we arrived at maturity, the danger is very great. In this se blistering-plasters must be immediately applied to the rists and ancles, and the patient's spirits supported with ordials.

Sometimes bleeding has a surprising effect in raising the instules after they have subsided; but it requires skill to now when this is proper, or to what length the patient in bear it. Sharp cataplasms, however, may be applied to be feet and hands, as they tend to promote the swelling these parts, and by that means to draw the humours tolards the extremities.

The most dangerous period of this disease is what we ill the secondary fever. This generally comes on when he small-pox begin to blacken, or turn on the face; and nost of those who die of the small-pox are carried off by his fever.

Nature generally attempts, at the turn of the small-pox, o relieve the patient by loose stools. Her endeavours this way are by no means to be counteracted, but promoted, and the patient at the same time supported by food and rink of a nourishing and cordial nature.

If, at the approach of the secondary fever, the pulse be cry quick, hard, and strong, the heat intense, and the

Dd

breathing laborious, with other symptoms of an inflammation of the breast, the patient must immediately be bled. The quartity of blood to be let must be regulated by the patient's strength, age, and the urgency of the symptoms. But in the secondary fever, if the patient be faintish, the pustules become suddenly pale, and if there be great coldness of the extremities, blistering plasters must be applied, and the patient must be supported with generous cordials. Wine, and even spirits, have sometimes been given in such cases with amazing success.

As the secondary fever is in great measure, if not wholly, owing to the absorption of the matter, it would seem highly consonant to reason, that the pustules, as soon as they come to maturity, should be opened. This is every day practised in other phlegmons which tend to suppuration; and there seems to be no cause why it should be less proper here. On the contrary, we have reason to believe, that by this means the secondary fever might always be lessened, and often wholly prevented.

The pustules should be opened when they begin to turn of a yellow colour. Very little art is necessary for this operation. They may either be opened with a lancet or a needle, and the matter absorbed by a little dry lint. As the pustules are generally first ripe on the face, it will be proper to begin with opening these, and the others in course as they become ripe. The pustules generally fill again, a second or even a third time; for which cause the operation must be repeated, or rather continued as long as there is any considerable appearance of matter in the pustules.

We have reason to believe that this operation, rational as it is, has been neglected from a piece of mistaken tenderness in parents. They believe that it must give great pain to the poor child; and therefore would rather see it die than have it thus tortured. This notion, however, is entirely without foundation. I have frequently opened the pustules when the patient did not see me, without his being in the least sensible of it; but suppose it were attended with a little pain, that is nothing in comparison to the adyantages which arise from it.

Opening the pustules not only prevents the resorption

OF THE SMALL-POX.

the matter into the blood, but likewise takes off the nsion of the skin, and by that means greatly relieves the tient. It likewise tends to prevent the pitting, which a matter of no small importance. Acrid matter, by dging long in the pustules, cannot fail to corrode e tender skin; by which many a handsome face becomes deformed as hardly to bear a resemblance to the human gure *.

It is generally necessary, after the small-pox are gone f, to purge the patient. If however the body has been een through the whole course of the disease, or if butterlik and other things of an opening nature have been ank freely after the height of the small-pox, purging bemes less necessary; but it ought never wholly to be eglected.

For very young children, an infusion of senna and prunes, th a little rhubarb, may be sweetened with coarse sugar, d given in small quantities till it operates. Those who e farther advanced must take medicines of a sharper nare. For example, a child of five or six years of age ny take eight or ten grains of fine rhubarb in powder eer night, and the same quantity of jalap in powder next porning. This may be wrought off with fresh broth or ter-gruel, and may be repeated three or four times, five ssix days intervening between each dose. For children ther advanced, and adults, the dose must be increased proportion to the age and constitution †.

When imposthumes happen after the small-pox, which not seldom the case, they must be brought to suppuran as soon as possible, by means of ripening poultices; d when they have been opened, or have broke of their n accord, the patient must be purged. The Peruvian rk and a milk diet will likewise be useful in this case.

* Though this operation can never do harm, yet it is only necessary en the patient has a great load of small-pox, or when the matter ich they contain is of so thin and acrid a nature, that there is reason apprehend bad consequences from its being too quickly resorbed, or en up again into the mass of circulating humours.

I have of late been accustomed, after the small-pox, to give one, o, three, four, or five grains of calomel, according to the age of the ient, over night, and to work it off next morning with a suitable dose jalap.

OF THE SMALL-POX.

When a cough, a difficulty of breathing, or other symptoms of a consumption, succeed to the small-pox, the patient must be sent to a place where the air is good, and pur upon a course of ass's milk, with such exercise as he can bear. For further directions in this case, see the article *Consumptions*.

OF INOCULATION.

THOUGH no disease, after it is formed, baffles the powers of medicine more effectually than the small-pox, yet more may be done before hand to render this disease favourable than any one we know, as almost all the danger from it may be prevented by inoculation. This salutary invention has been known in Europe above half a century; but, like most other useful discoveries, it has till of late made but slow progress. It must however be acknowledged, to the honour of this country, that inoculation has met with a more favourable reception here, than among any of our reighbours. It is still however far from being general, which we have reason to fear will be the case, as long as the practice continues in the hands of the faculty,

No discovery can be of general utility, while the practice of it is kept in the hands of a few. Had the inoculation of the small-pox been introduced as a fashion, and not as a medical discovery, or had it been practised by the same kind of operators here, as it is in those countries from whence we learned it, it had long ago been universal. The fears the jealousies, the prejudices, and the opposite interests of the faculty, are, and ever will be, the most effectual obstacles to the progress of any salutary discovery. Hence it is that the practice of inoculation never became in any measure general, even in England, till taken up by men not bred to physic. These have not only rendered the practice more extensive, but likewise more safe, and by acting under less restraint than the regular practitioners, have taught them that the patient's greatest danger arose, not from the want of care, but from the excess of it.

They know very little of the matter, who impute the success of modern inoculators to any superior skill, either preparing the patient or communicating the disease. ne of them indeed, from a sordid desire of engrossing whole practice to themselves, pretend to have extraorary secrets or nostrum's for preparing persons for inoation, which never fail of success. But this is only a etence, calculated to blind the ignorant and inattentive. mmon sense and prudence alone are sufficient both in choice of the subject and management of the operation, hoever is possessed of these may perform this office for children whenever he finds it convenient, provided by be in a good state of health.

This sentiment is not the result of theory, but of obsertion. Though few physicians have had more opportuties of trying inoculation in all its different forms, so the appears to me to depend on those, generally reckonimportant circumstances, of preparing the body, comunicating the infection by this or the other method, &c. at for several years past I have persuaded the parents or rses to perform the whole themselves, and have found at method followed with equal success, while it is free om many inconveniences that attend the other *.

The small-pox may be communicated in a great variety ways with nearly the same degree of safety and success. Turkey, from whence we learned the practice, the wo-

A critical situation, too often to be met with, first put me upon ing this method. A gentleman who had lost all his children except son by the natural small-pox, was determined to have him inoculated. told me his intention, and desired I would persuade the mother and ndmother, &c. of its propriety. But that was impossible. They re not to be persuaded, and either could not get the better of their rs, or were determined against conviction. It was always a point h me not to perform the operation without the consent of the parties cerned. I therefore advised the father, after giving his son a dose two of rhubarb, to go to a patient who had the small-pox of a good d, to open two or three of the pustules, taking up the matter with ittle cotton, and as soon as he came home to take his son apart, and e his arm a slight scratch with a pin, afterwards to rub the place Il with the cotton, and take no further notice of it. All this he actually performed; and at the usual period the small-pox made ir appearance, which were of an exceeding good kind, and so mild not to confine the boy an hour to his bed. None of the other relans knew but the disease had come in the natural way, till the boy was 11.

men communicate the disease to children, by opening a bit of the skin with a needle, and putting into the wound a little matter taken from a ripe pustule. On the coast o Barbary they pass a thread wet with the matter through the skin between the thumb and fore-finger; and in some of the states of Barbary, inoculation is performed by rubbing in the variolous matter between the thumb and forefinger, or on other parts of the body. The practice of communicating the small-pox, by rubbing the variolous matter upon the skin, has been long known in many parts of Asia and Europe, as well as in Barbary, and has generally gone by the name of *buying the small-pox*.

The present method of inoculating in Britain is to make two or three slanting incisions in the arm, so superficial as not to pierce quite through the skin, with a lancet wet with fresh matter taken from a ripe pustule; afterwards the wounds are closed up, and left without any dressing.— Some make use of a lancet covered with the dry matter; but this is less certain, and ought never to be used, unless where fresh matter cannot be obtained : when this is the case, the matter ought to be moistened by holding the lancet for some time in the steam of warm water. *

Indeed, if fresh matter be applied long enough to the skin, there is no occasion for any wound at all. Let a bit of thread, about half an inch long, wet with the matter be immediately applied to the arm, midway between the shoulder and the elbow, and covered with a piece of the common sticking plaster, and kept on for eight or ten days. This will seldom fail to communicate the disease. We mention this method, because many people are afraid of a wound; and doubtless the more easily the operation can be performed, it has the greater chance to become general. Some people imagine, that the discharge from a wound lessens the eruption; but there is no great stress to be laid upon this notion, besides, deep wounds often ulcerate, and become troublesome.

* Mr TRONCHIN communicates this disease by a little bit of thread dipt in the matter, which he covers with a small blistering-plaster. This method may no doubt be used with advantage in those cases where the patient is very much alarmed at the sight of any cutting instrument.

214

Ve do not find that inoculation is at all considered as a lical operation in those countries from whence we learnt. In Turkey it is performed by the women, and in East Indies by the Brachmins or priests. In this counthe custom is still in its infancy; we make no doubt, ever, but it will soon become so familiar, that parents think no more of inoculating their children, than at ent they do of giving them a purge.

To set of men have it so much in their power to renthe practice of inoculation general as the clergy, the atest opposition to it still arising from some scruples of ccience, which they alone can remove. I would remend it to them not only to endeavour to remove the ious objections which weak minds may have to this tary practice, but to enjoin it as a duty, and to point the danger of neglecting to make use of a mean which vidence has put in our power for saving the lives of offspring. Surely such parents as wilfully neglect the ins of saving their children's lives, are as guilty as those put them to death. I wish this matter were duly hed. No one is more ready to make allowance for huweakness and religious prejudices, yet I cannot help immending it, in the warmest manner, to parents, to ider how great an injury they do their children, by nering to give them this disease in the early period of life. the numerous advantages arising from the inoculation e small-pox have been pretty fully pointed out by the ed Dr M'Kenzie, in his History of Health *. To

Many and great," says this humane author, " are the dangers ing the natural infection, from all which the inoculation is quite . The natural infection may invade weak and distempered boby no means disposed for its kindly reception. It may attack at a season of the year either violently hot or intensely cold. It be communicated from a sort of small-pox impregnated with the t virulence. It may lay hold upon people unexpectedly, when a rous sort is imprudently imported into a maritime place. It may se us soon after excesses committed in luxury, intemperance, or ess. It may likewise seize on the innocent after indispensable ings, hard labour, or necessary journies. And is it a trivial adic, that all these unhappy circumstances can be prevented by inom? By inoculation numbers are saved from deformity as well as leath. In the natural small-pox, how often are the finest features, ne most beautiful complexions, miscrably disfigured? Whereas

OF THE SMALL-POX.

those mentioned by the Doctor, we shall only add, that such as have not had the small-pox in the early period of life, are not only rendered unhappy, but likewise in a great measure unfit for sustaining many of the most useful and important offices. Few people would chuse even to hire a servant who had not had the small pox, far less to purchase a slave, who had the chance of dying of this dis-How could a physician, or a surgeon, who had ease. never had the small-pox himself, attend others under that malady? How deplorable is the situation of females who arrive at mature age without having had the small pox ! A woman with child seldom survives this disease and if an infant happen to be seized with the small-por upon the mother's breast, who has not had the diseas herself, the scene must be distressing ! If she continue to suckle the child, it is at the peril of her own life; and she wean it, in all probability it will perish. How ofter is the affectionate mother forced to leave her house, an abandon her children, at the very time when her care most necessary? Yet should parental affection get th better of her fears, the consequences would often prov fatal. I have known the tender mother and her suckin

inoculation rarely leaves any ugly marks of scars, even where the nur ber of pustules on the face has been very considerable, and the sym toms by no means favourable. And many other grievous complain that are frequently subsequent to the natural sort, seldom follow the tificial. Does not inoculation also prevent those inexpressible term that perpetually harass persons who never had this disease, insomuch th when the small-pox is epidemical, entire villages are depopulated, mi kets ruined, and the face of distress spread over the whole country From this terror it arises, that justice is frequently postponed, or disc raged, at sessions or assizes where the small-pox rages. Witnesses and ries dare not appear; and by reason of the necessary absence of some g tlemen, our honourable and useful judges are not attended with that re rence and splendour due to their office and merit. Does not inoculati in like manner, prevent our brave sailors from being seized with this o temper on shipboard, where they must quickly spread the infection amo such of the crew who never had it before, and where they have sca any chance to escape, being half stifled with the closeness of their cebi and but very indifferently nursed ? Lastly, with regard to the soldie the miseries attending these poor creatures, when attacked by the small pox on a march, are inconceivable, without attendance, without lodgit without any accommodation : so that one of three commonly perishes."

OF THE SMALL-POX.

nt laid in the same grave, both untimely victims to dreadful malady. But these are scenes too shocking n to mention. Let parents who run away with their dren to avoid the small-pox, or who refuse to inoculate m in infancy, consider to what deplorable situations they r be reduced by this mistaken tenderness !

s the small-pox is now become an epidemical disease nost parts of the known world, no other choice remains to render the malady as mild as possible. This is the r manner of extirpation now left in our power; and igh it may seem paradoxical, the artificial method of municating the disease, could it be rendered universal. ild amount to nearly the same thing as rooting it out. is a matter of small consequence, whether a disease be rely extirpated, or rendered so mild as neither to dey life nor hurt the constitution; but that this may be e by inoculation, does not now admit of a doubt. The nbers who die under inoculation hardly deserve to be ned. In the natural way, one in four or five generally ; but by inoculation not one of a thousand. Nay, some boast of having inoculated ten thousand without the of a single patient.

have often wished to see some plan established for ldering this salutary practice universal; but am afraid I Il never be so happy. The difficulties indeed are many; the thing is by no means impracticable. The aim is it; no less than saving the lives of one-fourth part of akind. What ought not to be attempted in order to complish so desirable an end?

The first step towards rendering the practice universal, st be to remove the religious prejudices against it. This, ilready observed, can only be done by the clergy. They st not only recommend it as a duty to others, but likee practice it on their own children. Example will ever the more influence than precept.

The next thing requisite is to put it in the power of all. this purpose we would recommend it to the Faculty to culate the children of the poor gratis. It is hard that useful a part of mankind should by their poverty be exded from such a benefit.

should this fail, it is surely in the power of any State

Ee

to render the practice general, at least as far as their dominion extends. We do not mean that it ought to be enforced by a law. The best way to promote it would be to employ a sufficient number of operators at the public expence to moculate the children of the poor. This would only be necessary till the practice became general; afterwards custom, the strongest of all laws, would oblige every individual to inoculate his children to prevent reflections.

It may be objected to this scheme, that the poor would refuse to employ the inoculators: this difficulty is easily removed. A small premium to enable mothers to attend their children while under the disease, would be a sufficient inducement; besides, the success attending the operation would soon banish all objections to it. Even considerations of profit would induce the poor to embrace this plan. They often bring up their children to the age of ten or twelve, and when they come to be useful, they are snatched away by this malady, to the great loss of their parents, and detriment of the public.

The British legislature has of late years shewn great attention to the preservation of infant-lives, by supporting the foundling hospital, &cc. But we will venture to say, if one tenth part of the sums laid out in supporting that institution, had been bestowed towards promoting the practice of inoculation of the small-pox among the poor, that not only more useful lives had been saved, but the practice, ere now, rendered quite universal in this island. It is not to be imagined what effect example and a little money will have upon the poor; yet, if left to themselves, they would go on for ever in the old way, without thinking of any improvement. We only me in this as a hint to the humane and public spirited. Should such a scheme be approved, a proper plan might easily be laid down for the execution of it.

But as public plans are very difficult to bring about, and often, by the selfish views and misconduct of those intrusted with the execution of them, fail of answering the noble purposes for w ich they were designed; we shall therefore point out some other method by which the benefits of inoculation may be extended to the poor. There is no doubt but inoculators will daily become more nerous. We would therefore have every parish in Brito allow one of them a small salary for inoculating all children of the parish at a proper age. This might be ce at a very trifling expence, and it would enable every to enjoy the benefit of this salutary invention.

Two things chiefly operate to prevent the progress of culation. The one is a wish to put the evil day as far as possible. This is a principle in our nature; and as culation seems rather to be anticipating a future evil, as no wonder that mankind are so averse to it. But objection is sufficiently answered by the success. Who his senses would not prefer a lesser evil to-day to a greato-morrow, provided they were equally certain?

The other obstacle is the fear of reflections. This has y great weight with the bulk of mankind. Should the Id die, they think the world would blame them. This y cannot bear. Here lies the difficulty; and till that removed, inoculation will make but small progress. thing however can remove it but custom. Make the octice fashionable, and all objections will soon vanish. Is fashion alone that has led the multitude since the beming of the world, and will lead them to the end. We set therefore call upon the more enlightened part of manid to set a pattern to the rest. Their example, though may for some time meet with opposition, will at length twail.

am aware of an objection to this practice from the exce with which it may be attended; this is easily obviat-We do not mean that every parish ought to employ outton or a Dimsdale as inoculators. These have by it success already recommended themselves to crowned ds, and are beyond the vulgar reach; but have not ers an equal chance to succeed? They certainly have. them make the same trial, and the difficulties will soon ish. There is not a parish, and hardly a village in Bri-, destitute of some person who can bleed. But this is r more difficult operation, and requires both more skill dexterity than inoculation.

The persons to whom we would chiefly recommend the formance of this operation are the clergy. Most of them

• OF THE SMALL-POX.

know something of medicine. Almost all of them bleed, and can order a purge, which are all the qualifications necessary for the practice of inoculation. The priests among the less enlightened Indians perform this office, and why should a Christian teacher think himself above it? Surely the bodies of men, as well as their souls, merit a part of the pastor's care; at least the greatest Teacher who ever appeared among men seems to have thought so.

Should all other methods fail, we would recommend it to parents to perform the operation themselves. Let them take any method of communicating the disease they please; provided the subjects be healthy, and of a proper age, they will seldom fail to succeed to their wish. I have known many instances even of mothers performing the operation, and never so much as heard of one bad consequence. A planter in one of the West India islands is said to have inoculated, with his own hand, in one year, three hundred of his slaves, who notwithstanding the warmth of the climate, and other unfavourable circumstances, all did well. Common mechanics have often to my knowledge, performed the operation with as good success as physicians. We do not however mean to discourage those who have it in their power, from employing people of skill to inoculate their children, and attend them while under the disease, but only to shew, that where such cannot be had, the operation ought not upon that account to be neglected.

Instead of multiplying arguments to recommend this practice, I shall just beg leave to mention the method which I took with my own son, then an only child. After giving him two gentle purges, I ordered the nurse to take a bit of thread which had been previously wet with fresh matter from a pock, and to lay it upon his arm, covering it with a piece of sticking plaster. This remained on six or seven days, till it was rubbed off by accident. At the usual time the small-pox made their appearance, and were exceedingly favourable. Surely this, which is all that is generally necessary, may be done without any skill in medicine.

We have been the more full upon this subject, because the benefits of inoculation cannot be extended to society by any other means than making the practice general.

220

OF THE SMALL POX.

nile it is confined to a few, it must prove hurtful to whole. By means of it the contagion is spread, and communicated to many who might otherwise never e had the disease. Accordingly it is found that more of the small-pox now than before inoculation was inluced; and this important discovery, by which alone re lives might be saved than by all the endeavours of Faculty, is in a great measure lost by all its benefits not ng extended to the whole community *.

The spring and autumn have been usually reckoned most proper seasons for inoculation, on account of the ather being then most temperate; but it ought to be asidered that these are generally the most unhealthy seass of the whole year. Undoubtedly the best preparation the disease is a previous good state of health. I have alys observed that children in particular are more sickly wards the end of spring and autumn than at any other are of the year. On this account, as well as for the adntage of cool air, I would propose winter as the most pper season for inoculation; though, on every other asideration, the spring would seem to be preferable.

The most proper age for inoculation is between three I five. Many approve of inoculating on the breast, I where no circumstances forbid this practice, I have no tection to it. Children, however, are more liable to invulsions at this time than afterwards; besides, the tiety of the mother or nurse, should the child be in inger, would not fail to heighten it by spoiling the lik.

Children who have constitutional diseases must neverthebe inoculated. It will often mend the habit of bobut ought to be performed at a time when they most healthy. Accidental diseases should always be noved before inoculation.

it is generally thought necessary to regulate the diet some time before the disease be communicated. In ldren, however, great alteration in diet is seldom cessary, their food being commonly of the most

By a well-laid plan for extending inoculation, more lives might be ed at a small expence, than are at present preserved by all the hospiin England, which cost the public such an amazing sum.

OF THE SMALL-POX.

simple and wholesome kind, as milk, water-pap, weak broths, bread, light pudding, mild roots, and white meats.

But children who have been accustomed to a hotter diet, who are of a gross habit, or abound with bad humours ought to be put upon a spare diet before they are inoculated. Their food should be of a light cooling nature, and their drink whey, butter-milk, and such like.

We would recommend no other medicinal preparation but two or three milk purges, which ought to be suited to the age and strength of the patient. The success of inoculators does not depend on the preparation of their patients, but on their management of them while under the disease. Their constant care is to keep them cool, and their bodies gently open, by which means the fever is kept low, and the eruption greatly lessened. The danger is seldom great when the pustules are few; and their number is generally in proportion to the fever which precedes and attends the eruption. Hence the chief secret of inoculation consists in regulating the eruptive fever, which generally may be kept sufficiently low by the methods mentioned above.

The regimen during the disease is in all respects the same as under the natural small-pox. The patient must be kept cool, his diet should be light, and his drink weak and diluting, &c. Should any bad symptoms appear, which is seldom the case, they must be treated in the same way as directed in the natural small-pox. Purging is not less necessary after the small-pox by inoculation than in the natural way, and ought by no means to be neglected.

CHAP. XXIV.

OF THE MEASLES.

HE measles appeared in Europe about the same time with the small-pox, and have a great affinity to that disease. They both came from the same quarter of the world,

222

OF THE MEASLES:

both infectious, and seldom attack the same person 'e than once. The measles are most common in the ng season, and generally disappear in summer. The ase itself, when properly managed, seldom proves fabut its consequences are often very troublesome.

AUSE.—This disease, like the small-pox, proceeds a infection, and is more or less dangerous according to constitution of the patient, the season of the year, the nate, &c.

YMPTOMS.—The measles, like other fevers, are reded by alternate fits of heat and cold, with sickness, loss of appetite. The tongue is white, but generally, st. There is a short cough, a heaviness of the head eyes, drowsiness, and a running at the nose. Somees indeed the cough does not come before the eruption appeared. There is an inflammation and heat in the s, accompanied with a defluxion of sharp rheum, and it acuteness of sensation, so that they cannot bear the t without pain. The eye-lids frequently swell so as to ision blindness. The patient generally complains of throat; and a vomiting or looseness often precedes the otion. The stools in children are commonly greenish; complain of an itching of the skin, and are remarkpeevish. Bleeding at the nose is common, both beand in the progress of the disease.

bout the fourth day, small spots, resembling fiea-bites, ear, first upon the face, then upon the breast, and afvards upon the extremities : these may be distinguished i the small-pox by their scarcely rising above the skin. fever, cough, and difficulty of breathing, instead of ig removed by the eruption as in the small-pox, are er increased; but the vomiting generally ceases.

bout the sixth or seventh day from the time of sickenthe measles begin to turn pale on the face, and afterls upon the body; so that by the ninth day they eny disappear. The fever, however, and difficulty of thing, often continue, especially if the patient has i kept upon too hot a regimen. Petechiæ, or purple s, may likewise be occasioned by this error.

violent looseness sometimes succeeds the measles; in ch case the patient's life is in imminent danger. Such as die of the measles generally expire about the ninth day from the invasion, and are commonly carried off by a peripneumony, or inflammation of the lungs.

The most favourable symptoms are a moderate looseness, a moist skin, and a plentiful discharge of urine.

When the eruption suddenly falls in, and the patient is seized with a delirium, he is in the greatest danger. If the measles turn too soon of a pale colour, it is an unfavourable symptom, as are also great weakness, vomiting, restlessness, and difficulty of swallowing. Purple or black spots appearing among the measles are very unfavourable. When a continual cough, with hoarseness, succeeds the disease, there is reason to suspect an approaching consumption of the lungs.

Our business in this disease is to assist Nature, by proper cordials, in throwing out the eruption, if her efforts be too languid; but when they are too violent they must be restrained by evacuations, and cool diluting liquors, &c. We ought likewise to endeavour to appease the most urgent symptoms, as the cough, restlessness, and difficulty of breathing.

REGIMEN.—The cool regimen is necessary here as well as in the small-pox. The food too must be light, and the drink diluting. Acids however do not answer so well in the measles as in the small-pox, as they tend to exasperate the cough. Small beer likewise, though a good drink in the small-pox, is here improper. The most suitable liquors are decoctions of liquorice with marsh-mallow roots and sarsaparilla, infusions of linseed, or of the flowers of elder, balm-tea, clarified whey, barley-water, and such like. These, if the patient be costive, may be sweetened with honey; or, if that should disagree with the stomach, a little manna may occasionally be added to them.

MEDICINE.—The measles being an inflammatory disease, without any critical discharge of matter, as in the small-pox, bleeding is commonly necessary, especially when the fever runs high, with difficulty of breathing, and great oppression of the breast. But if the disease be of a mild kind, bleeding may be omitted. *

* I do not know any disease wherein bleeding is more necessary than

Bathing the feet and legs frequently in lukewarm water oth tends to abate the violence of the fever, and to pronote the eruption.

The patient is often greatly relieved by vomiting.— Vhen there is a tendency this way, it ought to be pronoted by drinking lukewarm water, or weak camomileea.

When the cough is very troublesome, with dryness of ne throat, and difficulty of breathing, the patient may hold is head over the steam of warm water, and draw the steam nto his lungs.

He may likewise lick a little sperma-ceti and sugar-cany pounded together; or take now and then a spoonful of ne oil of sweet almonds, with sugar-candy dissolved in it. These will soften the throat, and relieve the tickling ough.

If at the turn of the disease the fever assumes new viour, and there appears great danger of suffocation, the atient must be bled according to his strength, and blisterng plasters applied, with a view to prevent the load from eing thrown on the lungs, where if an inflammation should ix itself, the patient's life will be in imminent danger.

In case the measles should suddenly disappear, it will e necessary to pursue the same method which we have commended when the small-pox recede. The patient just be supported with wine and cordials. Blisteringlasters must be applied to the legs and arms, and the ody rubbed all over with warm flannels. Warm poulces may likewise be applied to the feet and palms of the ands.

When purple or black spots appear, the patient's drink nould be sharpened with spirits of vitriol; and if the puid symptoms increase, the peruvian bark must be admiistered in the same manner as directed in the small-pox. Opiates are sometimes necessary, but should never be iven except in cases of extreme restlessness, a violent poseness, or when the cough is very troublesome. For hildren, the syrup of poppies is sufficient. A tea-spoon-

the measles, especially when the fever runs high : in this case I have lways found it relieve the patient.

ful or two may be occasionally given, according to the patient's age, or violence of the symptoms.

After the measles are gone off, the patient ought to be purged. This may be conducted in the same manner as directed in the small pox.

If a violent looseness succeeds the measles, it may be checked by taking for some days a gentle dose of rhubarb in the morning, and an opiate over night; but if these do not remove it, bleeding will seldom fail to have that effect.

Patients recovering after the measles should be careful what they eat or drink. Their food for some time ought to be light, and in small quantities, and their drink diluting, and rather of an opening nature, as butter milk, whey, and such like. They ought also to beware of exposing themselves too soon to the cold air, lest a suffocating catarrh, an asthma, or a consumption of the lungs, should ensue.

Should a cough, with difficulty of breathing, and other symptoms of a consumption, remain after the measles, small quantities of blood may be frequently let at proper intervals, as the patient's strength and constitution will permit. He ought likewise to drink ass's milk, to remove to a free air, if in a large town, and to ride daily on horseback. He must keep close to a diet consisting of milk and vegetables; and lastly, if these do not succeed, let him remove to a warmer climate *.

* Attempts have been made to communicate the measles, as well as the small pox by inoculation, and we make no doubt but in time the practice may succeed. Dr Home of Edinburgh says, he communicated the disease by the blocd. Others have tried this method, and have not found it succeed. Some think the disease would be more certainly communicated by rubbing the skin of a patient who has the measles with cot on, and afterwards applying the cotton to a wound, as in the small-pox; while others recommend a bit of flannel which had been applied to the patient's skin, all the time of the disease, to be afterwards laid upon the arm or leg of the person to whom the infection is to be communicated. There is no doubt but this disease, as well as the smallpox, may be communicated various ways; the most probable, however, is either from cotton rubbed upon the skin, as mentioned above, or by introducing a little of the sharp humour which distils from the eyes of t'e patient into the blood. It is agreed on all hands, that such patients as have been inoculated had the disease very mildly; we therefore wish

OF THE SCARLET FEVER.

THE scarlet fever is so called from the colour of the paent's skin, which appears as if it were tinged with red ine. It happens at any season of the year, but is most ommon towards the end of summer; at which time it ofen seizes whole families; children and young persons are nost subject to it.

It begins like other fevers, with coldness and shivering, without any violent sickness. Afterwards the skin is cocered with red spots, which are broader, more florid, and ess uniform than the measles. They continue two or three mays, and then disappear; after which the cuticle, or scarfkin, falls off.

There is seldom any occasion for medicine in this disase. The patient ought however to keep within doors, to bstain from flesh, strong liquors, and cordials, and to drink reely of cool diluting liquors. If the fever runs high, the oody must be kept gently open by emollient clysters, or mall doses of nitre and rhubarb. A scruple of the former, with five grains of the latter, may be taken thrice a-day, or oftener, if necessary.

Children and young persons are sometimes seized at the beginning of this disease with a kind of stupor and epilepic fits. In this case the feet and legs should be bathed in warm water, a large blistering-plaster applied to the neck, and a dose of the syrup of poppies given every night till he patient recovers *.

The scarlet fever however is not always of so mild a naure. It is sometimes attended with putrid or malignant ymptoms, in which case it is always dangerous. In the nalignant scarlet fever, the patient is not only affected with coldness and shivering, but with langour, sickness, and great oppression; to these succeed excessive heat, nausea and vomiting, with a soreness of the throat; the pulse is extremely quick, but small and depressed; the breathing frequent and laborious; the skin hot, but not quite dry; the tongue moist, and covered with a whitish mucus;

the practice were more general, as the measles have of late become very fatal.

, * Sydenham.

OF THE BILIOUS FEVER.

the tonsils inflamed and ulcerated. When the eruption appears, it brings no relief: on the contrary, the symptoms generally grew worse, and fresh ones come on, as purging, delirium, &c.

When this disease is taken for a simple inflammation, and treated with repeated bleedings, purging and cooling medicines, it generally proves fatal. The only medicines that can be depended on in this case are cordials and antiseptics, as the Peruvian bark, wine, snake root, and the like. The treatment must be in general similar to that of the putrid fever, or of the malignant ulcerous sore throat *.

OF THE BILIOUS FEVER.

WHEN a continual, remitting, or intermitting fever is accompanied with a frequent or copious evacuation of bile, either by vomit or stool, the fever is denominated bilious. In Britain the bilious fever generally makes its appearance about the end of summer, and ceases towards the approach of winter. It is most frequent and fatal in warm countries, especially where the soil is marshy, and when great rains are succeeded by sultry heats. Persons who work without doors, lie in camps, or who are exposed to the night air, are most liable to this kind of fever.

If there are symptoms of inflammation at the beginning of this fever, it will be necessary to bleed, and to put the patient upon the cool diluting regimen recommended in the inflammatory fever. The saline draught may likewise be frequently administered, and the patient's body kept open by clysters or mild purgatives. But if the fever should remit or intermit, bleeding will seldom be necessary. In this case a vomit may be administered, and, if the body be

* In the year 1774, during winter, a very bad species of this fever prevailed in Edinburgh. It raged chiefly smong young people. The eruption was generally accompanied with a quinsey, and the inflammatory symptoms were so blended with others of a putrid nature, as to render the treatment of the disease very difficult. Many of the patients, towards the decline of the fever, were afflicted with large swellings of the submaxillary glands, and not a few had a suppuration in one or both cars.

228

will generally complete the cure.

In case of a violent looseness, the patient must be suported with chicken broth, jellies of hartshorn, and the ke; and he may use the *white decoction* for his ordinaryrink *. If a bloody flux should accompany this fever, must be treated in the manner recommended under the tricle *Dysentery*.

When there is a burning heat, and the patient does not veat, that evacuation may be promoted by giving him, aree or four times a-day, a table spoonful of Mindererus' birit +, mixed in a cup of his ordinary drink.

If the bilious fever be attended with the nervous, maligant, or putrid symptoms, which is sometimes the case, he patient must be treated in the same manner as directed nder these diseases.

After this fever, proper care is necessary to prevent a elapse. For this purpose the patient, especially towards are end of autumn, ought to continue the use of the Peavian bark for some time after he is well. He should kewise abstain from all trashy fruits, new liquors, and very kind of flatulent aliment.

CHAP. XXV.

F THE ERYSIPELAS, OR ST ANTHONY'S FIRE.

HIS disease, which in some parts of Britain is called the rose, attacks persons at any period of life, but is ost common between the age of thirty and forty. Persons a sanguine or plethoric habit are most liable to it. It ten attacks young people, and pregnant women; and ich as have once been afflicted with it are very liable to ive it again. Sometimes it is a primary disease, and at her times only a symptom of some other malady. Every it of the body is liable to be attacked by an erysipelas, at it most frequently seizes the legs or face, especially

* See Appendix, White Decoction. + See Appendix, Spirit of Mindererus. the latter. It is most common in autumn, or when hot weather is succeeded by cold and wet.

CAUSES.—The erysipelas may be occasioned by violent passions or affections of the mind; as fear, anger, &c. When the body has been heated to a great degree, and is immediately exposed to the cold air, so that the perspiration is suddenly checked, an erysipelas will often ensue *. It may also be occasioned by drinking to excess, by continuing too long in a warm bath, or by any thing that overheats the blood. If any of the natural evacuations be obstructed, or in too small a quantity, it may cause an erysipelas. The same effect will follow from the stoppage of artificial evacuations; as issues, setons, or the like.

SYMPTOMS.—The erysipelas attacks with shivering, thirst, loss of strength, pain in the head and back, heat, restlessness, and a quick pulse; to which may be added vomiting, and sometimes a delirium. On the second, third, or fourth day, the part swells, becomes red, and small pustules appear; at which time the fever generally abates.

When the erysipelas seizes the foot, the parts contiguous swell, the skin shines; and if the pain be violent, it will ascend to the leg, and will not bear to be touched.

When it attacks the face, it swells, appears red, and the skin is covered with small pustules filled with clear water. One or both eyes are generally closed with the swelling; and there is a difficulty of breathing. If the mouth and nostrils be very dry, and the patient drowsy, there is reason to suspect an inflammation of the brain.

If the erysipelas affects the breast, it swells and becomes exceedingly hard, with great pain, and is apt to suppurate. There is a violent pain in the arm-pit on the side affected, where an abscess is often formed.

If in a day or two the swelling subsides, the heat and

* The country people in many parts of Bri ain call this disease a blast, and imagine it proceeds from foul air, or ill wind, as they term it. The truth is, they often lie down to rest them, when warm and fatigued, upon the damp ground, where they fall asleep, and lie so long as to catch cold, which occasions the erysipelas. This disease may indeed proceed from other causes, but we may venture to say, that nine time out of ten it is occusioned by cold caught after the body has been greatly heated or fatigued.

230

ain abate, the colour of the part turns yellow, and the uticle breaks and falls off in scales, the danger is over.

When the erysipelas is large, deep, and affects a very ensible part of the body, the danger is great. If the red plour changes into a livid or black, it will end in a morfication. Sometimes the inflammation cannot be discused, but comes to a suppuration; in which case fistulas, gangrene, or mortification, often ensue.

Such as die of this disease are commonly carried off by ne fever, which is attended with difficulty of breathing, and sometimes with a delirium and great drowsiness.— "hey generally die about the seventh or eighth day.

REGIMEN.—In the erysipelas the patient must neither e kept too hot nor too cold, as either of these extremes ill tend to make it retreat, which is always to be guardl against. When the disease is mild, it will be sufficient be keep the patient within doors, without confining him bed, and to promote the perspiration by diluting liquors, tc.

The diet ought to be slender, and of a moderately coolig and moistening quality, as groat-gruel, panado, chicki or barley broth, with cooling herbs and fruits, &c.-voiding flesh, fish, strong drink, spices, pickles, and all her things that may heat and inflame the blood; the rink may be barley-water, an infusion of elder-flowers, ommon whey, and such like.

But if the pulse be low, and the spirits sink, the patient ust be supported with negus, and other things of a coral nature. His food may be sago gruel with a little ine, and nourishing broths taken in small quantities, and ten repeated. Great care however must be taken not overheat him.

MEDICINE —In this disease much mischief is often one by medicine, especially by external applications. eople, when they see an inflammation, immediately ink that something ought to be applied to it. This ineed is necessary in large phlegmons; but in an erysipes the safer course is to apply nothing. Almost all ointents, salves, and plasters, being of a greasy nature, nd rather to obstruct and repel than promote any disnarge from the part. At the beginning of this disease it is neither safe to promote a suppuration, nor to repel the matter too quickly. The erysipelas in many respects resembles the gout, and is to be treated with the greatest caution. Fine wool, or very soft flannel, are the safest applications to the part. These not only defend it from the external air, but likewise promote the perspiration, which had a great tendency to carry off the disease. In Scotland the common people generally apply a mealy cloth to the parts affected, which is far from being improper.

It is common to bleed in the erysipelas; but this likewise requires caution. If however the fever be high, the pulse hard and strong, and the patient vigorous, it will be proper to bleed; but the quantity must be regulated by these circumstances, and the operation repeated as the symptoms may require. If the patient has been accustomed to strong liquors, and the disease attacks his head, bleeding is absolutely necessary.

Bathing the feet and legs frequently in lukewarm water; when the disease attacks the face or brain, has an excellent effect. It tends to make a derivation from the head, and seldom fails to relieve the patient. When bathing proves ineffectual, poultices, or sharp sinapisms, may be applied to the soles of the feet, for the same purpose.

In cases where bleeding is requisite, it is likewise necessary to keep the body open. This may be affected by emollient clysters, or small doses of nitre and rhubarb.— Some indeed recommend very large doses of nitre in the erysipelas; but nitre seldom sits easy on the stomach when taken in large doses. It is however one of the best medicines when the fever and inflammation run high. Half a drachm of it, with four or five grains of rhubarb, may be taken in the patient's ordinary drink, four times aday.

When the erysipelas leaves the extremities, and seizes the head so as to occasion a delirium or stupor, it is absolutely necessary to open the body. If clysters and mild purgatives fail to have this effect, stronger ones must be given. Blistering-plasters must likewise be applied to the neck, or behind the ears, and sharp cataplasms laid to the soles of the feet. When the inflammation cannot be discussed, and the irt has a tendency to ulcerate, it will then be proper to comote suppuration, which may be done by the applicaon of ripening poultices, with saffron, warm fomentations, ad such like.

When the black, livid, or blue colour of the part shews tendency to mortification, the Peruvian bark must be adinistered. It may be taken along with acids, as recomended in the small-pox, or in any other form more agreeble to the patient. It must not however be trifled with, the patient's life is at stake. A drachm may be given cery two hours, if the symptoms be threatening, and oths dipped in warm camphorated spirits of wine, or the acture of myrrh and aloes, may be applied to the part, and equently renewed. It may likewise be proper in this case apply poultices of the bark, or to foment the part affectl with a strong decoction of it.

In what is commonly called the *scorbutic erysipelas*, which ontinues for a considerable time, it will only be necessary give gentle laxatives, and such things as purify the blood ad promote the perspiration. Thus, after the inflammaon has been checked by opening medicines, the decoction 'woods * may be drunk, after which a course of bitters ill be proper.

Such as are liable to frequent attacks of the erysipelas, ight carefully to guard against all violent passions; to abin from strong liquors, and all fat, viscid, and highly ourishing food. They should likewise take sufficient excise, carefully avoiding the extremes of heat or cold.— 'heir food should consist chiefly of milk, and such fruits, erbs, and roots, as are of a cooling quality; and their drink ight to be small-beer, whey, butter-milk, and such like. 'hey should never suffer themselves to be long costive. If iat cannot be prevented by suitable diet, it will be proper take frequently a gentle dose of rhubarb, cream of tartar, ie lenitive electuary, or some other mild purgative.

See Appendix, Decoction of Woods.

CHAP. XXVI.

OF THE PHRENITIS, OR INFLAMMATION OF THE BRAIN.

HIS is sometimes a primary disease, but oftener only a symptom of some other malady; as the inflammatory, eruptive, or spotted fever, &c. It is very common however as a primary disease in warm climates, and is most incident to persons about the prime or vigour of life. The passionate, the studious, and those whose nervous system is irritable in a high degree, are most liable to it.

CAUSES.—This disease is often occasioned by nightwatching, especially when joined with hard study: it may likewise proceed from hard drinking, anger; grief, or anxiety. It is often occasioned by the stoppage of usual evacuations; as the bleeding piles in men, the customary discharges of women, &c. Such as imprudently expose themselves to the heat of the sun, especially by sleeping without doors in a hot season with their heads uncovered, are often suddenly seized with an inflammation of the brain, so as to awake quite delirious. When repellents are imprudently used in an erysipelas, an inflammation of the brain is sometimes the consequence. It may likewise be occasioned by external injuries, as blows or bruises upon the head, &c.

SYMPTOMS.—The symptoms which usually precede a true inflammation of the brain are pain of the head, redness of the eyes, a violent flushing of the face, disturbed sleep, or a total want of it, great dryness of the skin, costiveness, a retention of urine, a small dropping of blood from the nose, singing of the ears, and extreme sensibility of the nervous system.

When the inflammation is formed, the symptoms in general are similar to those of the inflammatory fever.— The pulse indeed is often weak, irregular, and trembling; but sometimes it is hard and contracted. When the brain itself is inflamed, the pulse is always soft and low; but when the inflammation only affects the integuments of the brain, viz. the dura and pia matter, it is hard. A remarkable nckness of hearing is a common symptom of this disease; it that seldom continues long. Another usual symptom a great throbbing or pulsation in the arteries of the neck id temples. Though the tongue is often black and dry, et the patient seldom complains of thirst, and even reses drink. The mind chiefly runs upon such objects as we before made a deep impression on it; and sometimes, om a sullen silence, the patient becomes all of a sudden ite outrageous.

A constant trembling and starting of the tendons is an infavourable symptom, as are also a suppression of urine; total want of sleep; a constant spitting; a grinding of ne teeth, which last may be considered as a kind of conalsion. When a phrenitis succeeds an inflammation of ne lungs, of the intestines, or of the throat, &c. it is owing to a translation of the disease from these parts to the rain, and generally proves fatal. This shews the necesty of proper evacuations, and the danger of repellents in ll inflammatory diseases.

The favourable symptoms are, a free perspiration, a opious discharge of blood from the nose, the bleeding iles, a plentiful discharge of urine, which lets fall a coious sediment. Sometimes the disease is carried off by a poseness, and in women by an excessive flow of the

As this disease often proves fatal in a few days, it reuires the most speedy applications. When it is prolongd, or improperly treated, it sometimes ends in madness, or kind of stupidity which continues for life.

In the cure, two things are chiefly to be attended to, viz. o lessen the quantity of blood in the brain, and to retard the circulation towards the head.

REGIMEN.—The patient ought to be kept very quiet. Company, noise, and every thing that affects the senses, or disturbs the imagination, increases the disease. Even oo much light is hurtful; for which reason the patient's chamber ought to be a little darkened, and he should neiher be kept too hot nor cold. It is not however necessary o exclude the company of an agreeable friend, as this has a tendency to sooth and quiet the mind. Neither ought the patient to be kept too much in the dark, lest it should occasion a gloomy melancholy, which is too often the con-

The patient must, as far as possible, be soothed and humoured in every thing. Contradiction will ruffle his mind, and increase his malady. Even when he calls for things which are not to be obtained, or which might prove hurtful, he is not to be positively denied them, but rather put off with the promise of having them as soon as they can be obtained, or by some other excuse. A little of any thing that the mind is set upon, though not quite proper, will hurt the patient less than a positive refusal. In a word, whatever he was fond of, or used to be delighted with when in health, may here be tried, as pleasing stories, soft music, or whatever has a tendency to sooth the passions and compose the mind. Boerhaave proposes several mechanical experiments for this purpose; as the soft noise of water distilling by drops into a bason, and the patient trying to reckon them, &c. Any uniform sound, if low and continued, has a tendency to procure sleep, and consequently may be of service.

The aliment ought to be light, consisting chiefly of farinaceous substances: as panado, and water gruel sharpened with jelly of currants, or juice of lemons, ripe fruits, roasted or boiled, jellies, preserves, &c. The drink small, diluting, and cooling; as whey, barley-water, or decoctions of barley and tamarinds, which latter not only render the liquor more palatable, but likewise more beneficial, as they are of an opening nature.

MEDICINE.—In an inflammation of the brain, nothing more certainly relieves the patient than a free discharge of blood from the nose. When this comes of its own accord, it is by no means to be stopped, but rather promoted, by applying cloths dipped in warm water to the part.— When bleeding at the nose does not happen spontaneously, it may be provoked, by putting a straw, or any other sharp body, up the nostril.

Bleeding in the temporal arteries greatly relieves the head : but as this operation cannot always be performed, we would recommend in its stead bleeding in the jugular veins. When the patient's pulse and spirits are so low, that he cannot bear bleeding with the lancet, leeches may e applied to the temples. These not only draw off the lood more gradually, but by being applied nearer to the art affected, generally give more immediate relief.

A discharge of blood from the hæmorrhoidal veins is kewise of great service, and ought by all means to be romoted. If the patient has been subject to the bleeding liles, and that discharge has been stopped, every method aust be tried to restore it; as the application of leeches to he parts, sitting over the steams of warm water, sharp clysers, or suppositories made of honey, aloes, and rock hlt.

If the inflammation of the brain be occasioned by the coppage of evacuations either natural or artificial, as the tenses, issues, setons, or such like, all means must be sed to restore them as soon as possible, or to substitute there in their stead.

The patient's body must be kept open by stimulating systems or smart purges; and small quantities of nitre aught frequently to be mixed with his drink. Two or aree drachms, or more, if the case be dangerous, may be used in the space of twenty-four hours.

The head should be shaved and frequently rubbed with negar and rose-water. Cloths dipped in this mixture hay likewise be applied to the temples. The feet ought equently to be bathed in lukewarm water, and soft poulces of bread and milk may be kept constantly applied to tem.

If the disease proves obstinate, and does not yield to these redicines, it will be necessary to apply a blistering-plaster) the whole head.

CHAP. XXVII.

F THE OPHTHALMIA, OR INFLAMMATION OF THE EYES.

THIS disease may be occasioned by external injuries; as blows, burns, bruises, and the like. It may likewise roceed from dust, quicklime, or other substances, getng into the eyes. It is often caused by the stoppage of customary evacuations; as the healing of old sores, drying up of issues, the suppressing of gentle morning sweats, or of the sweating of the feet, &c. Long exposure to the night air, especially in cold northerly winds, or whatever suddenly checks the perspiration, especially after the body has been much heated, is very apt to cause an inflammation of the eyes. Viewing snow or other white bodies for a long time, or looking stedfastly at the sun, a clear fire, or any bright object, will likewise occasion this malady. A sudden transition from darkness to very bright light will often have the same effect.

Nothing more certainly occasions an inflammation of the eyes than night-watching, especially reading or writing by candle light. Drinking spirituous liquors, and excess of venery, are likewise very hurtful to the eyes. The acrid fumes of metals, and of several kinds of fuel, are also pernicious. Sometimes an inflammation of the eyes proceeds from a venereal taint, and often from a scrophulous or gouty habit. It may likewise be occasioned by hairs in the eye-lids turning inwards, and hurting the eyes. Sometimes the disease is epidemic, especially after wet seasons; and I have frequently known it prove infectious, particularly to those who lived in the same house with the patient. It may be occasioned by moist air, or living in low damp houses, especially in persons who are not accustomed to such situations. In children it often proceeds from imprudently drying up of scabbed heads, a running behind the ears, or any other discharge of that kind. Inflammations of the eyes often succeed the smallpox or measles, especially in children of a scrophulous habit.

SYMPTOMS.—An inflammation of the eyes is attended with acute pain, heat, redness, and swelling. The patient is not able to bear the light, and sometimes he feels a pricking pain, as if his eyes were pierced with a thorn. Sometimes he imagines his eyes are full of motes, or thinks he sees flies dancing before him. The eyes are filled with a scalding rheum, which rushes forth in great quantities, whenever the patient attempts to look up. The pulse is generally quick and hard, with some degree of fever. When the disease is violent, the neighbouring arts swell, and there is a throbbing or pulsation in the mporal arteries, &c.

A slight inflammation of the eyes, especially from an sternal cause, is easily cured; but when the disease is olent, and continues long, it often leaves specks upon ue eyes, or dimness of sight, and sometimes total blindess.

If the patient be seized with a looseness, it has a good lect; and when the inflammation passes from one eye to nother, as it were by infection, it is no unfavourable mptom. But when the disease is accompanied with a colent pain of the head, and continues long, the patient in danger of losing his sight.

REGIMEN.—The diet, unless in scrophulous cases, in hardly be too spare, especially at the beginning. The atient must abstain from every thing of a heating nature. Its food should consist chiefly of mild vegetables, weak roths, and gruels. His drink may be barley-water, balma, common whey, and such like.

The patient's chamber must be darkened, or his eyes haded by a cover, so as to exclude the light, but not to ress upon the eyes. He should not look at a candle, the fire, or any luminous object; and ought to avoid all moke, as the fumes of tobacco, or any thing that may use coughing, sneezing, or vomiting. He should be ept quiet, avoiding all violent efforts, either of body or ind, and encouraging sleep as much as possible.

MEDICINE.—This is one of those diseases wherein reat hurt is often done by external applications. Almost ery person pretends to be possessed of a remedy for the tre of sore eyes. These remedies generally consist of 'e-waters and ointments, with other external applications, hich do mischief twenty times for once they do good. cople ought therefore to be very cautious how they use ch things, as even the pressure upon the eyes often ineases the malady.

Bleeding, in a violent inflammation of the eyes, is alays necessary. This should be performed as near the ut affected as possible. An adult may lose ten or twelve inces of blood from the jugular vein, and the operation ay be repeated according to the urgency of the symptoms. If it should not be convenient to bleed in the neck, the same quantity may be let from the arm, or any other part of the body.

Leeches are often applied to the temples, or under the eyes, with good effect. The wounds must be suffered to bleed for some hours, and if the bleeding stop soon, it may be promoted by the application of cloths dipt in warm water. In obstinate cases, it will be necessary to repeat this operation several times.

Opening and diluting medicines are by no means to be neglected. The patient may take a small dose of Glauber's salts, and cream of tartar, every second or third day, or a decoction of tamarinds with senna. If these be not agreeable, gentle doses of rhubarb and nitre, a little of the lenitive electuary, or any other mild purgative, will answer the same end. The patient at the same time must drink freely of water-gruel, tea, whey, or any other weak diluting liquor. He ought likewise to take, at bed-time, a large draught of very weak wine-whey, in order to promote perspiration. His feet and legs must frequently be bathed in lukewarm water, and his head shaved twice or thrice a-week, and afterwards washed in cold water. This has often a remarkably good effect.

If the inflammation does not yield to these evacuations. blistering-plasters must be applied to the temples, behind the ears, or upon the neck, and kept open for some time by the mild blistering-ointment. I have seldom known these, if long enough kept open, fail to remove the most obstinate inflammation of the eyes; but for this purpose it is often necessary to continue the discharge for several weeks.

When the disease has been of long standing, I have seen very extraordinary effects from a seton in the neck or between the shoulders, especially the latter. It should be put upwards and downwards, or in the direction of the spine, and in the middle between the shoulder-blades. It may be dressed twice a-day with yellow basilicon. I have known patients, who had been blind for a considerable time, recover sight by means of a seton placed as above. When the seton is put across the neck, it soon wears out, and is both more painful and troublesome than between e shoulders; besides, it leaves a disagreeable mark, and es not discharge so freely.

When the heat and pain of the eyes are very great, a ultice of bread and milk, softened with sweet oil or fresh itter, may be applied to them, at least all night; and ey may be bathed with lukewarm milk and water in the orning.

If the patient cannot sleep, which is sometimes the case, may take twenty or thirty drops of laudanum, or two ponfuls of the syrup of poppies, over night more or less cording to his age, or the violence of the symptoms.

After the inflammation is gone off, if the eyes still rein weak and tender, they may be bathed every night d morning with cold water and a little brandy, six parts the former to one of the latter. A method should be ntrived by which the eye can be quite immersed in the andy and water, where it should be kept for some time. have generally found this, or cold water and vinegar, good a strengthener of the eyes as any of the most ceorated chollyriums.

When an inflammation of the eyes proceeds from a scroulous habit, it generally proves very obstinate. In this se the patient's diet must not be too low, and he may allowed to drink small negus, or now and then a glass wine. The most proper medicine is the Peruvian bark, nich may either be given in substance, or prepared in the lowing manner :

Take an ounce of the bark in powder, with two drachms Winter's bark, and boil them in an English quart of iter to a pint; when it has boiled nearly long enough, d half an ounce of liquorice-root sliced. Let the liquor strained. Two, three, or four table-spoonfuls, accorng to the age of the patient, may be taken three or four nes a-day. It is impossible to say how long this medine should be continued, as the cure is sooner performed some than in others; but in general it requires a consirable time to produce any lasting effects.

Dr Cheyne says, "That Æthiops mineral never fails obstinate inflammations of the eyes, even scrophulous es, if given in a sufficient dose, and duly persisted in." here is no doubt but this and other preparations of mercury may be of singular service in ophthalmias of long continuance, but they ought always to be administered with the greatest caution, or by persons of skill in physic.

It will be proper frequently to look into the eyes, to see if any hairs be turned inwards, or pressing upon them *. These ought to be removed by plucking them out with a pair of small pincers.

Those who are liable to frequent returns of this disease, ought constantly to have an issue in one or both arms. Bleeding or purging in the spring and autumn, will be very beneficial to such persons. They ought likewise to live with the greatest regularity, avoiding strong liquor, and every thing of a heating quality. Above all, let them avoid the night-air and late studies $\frac{1}{7}$.

CHAP. XXVIII.

OF THE QUINSEY, OR INFLAMMATION OF THE THROAT.

THIS disease is very common in Britain, and is frequently attended with great danger. It prevails in the winter and spring, and is most fatal to young people of a sanguine temperament.

CAUSES.—In general it proceeds from the same causes as other inflammatory disorders, viz. an obstructed perspiration, or whatever heats or inflames the blood. An inflammation of the throat is often occasioned by omitting some part of the covering usually worn about the neck, by drinking cold liquor when the body is warm, by riding or walking against a cold northerly wind, or any thing that greatly cools the throat, and parts adjacent. It may like-

* Any foreign body lodged in the eye may be expeditiously removed by passing a small hair pencil between the eye-lid and the ball of the eye. In some places, the peasants do this very effectually, by using their tongue in the same manner.

+ As most people are fond of using eye-waters and ointments in this and other diseases of the eyes, we have inserted some of the most approved forms of these medicines in the Appendix. See Appendix, Eyewater, and Eye-salve.

243

ise proceed from the neglect of bleeding, purging, or any istomary evacuation.

Singing, speaking loud and long, or whatever strains the roat, may likewise cause an inflammation of that organ. have often known the quinsey prove fatal to jovial comnions, who, after sitting long in a warm room, drinking of liquors, and singing with vehemence, were so impruent as to go abroad in the cold night air. Sitting with et feet, or keeping on wet clothes, are very apt to occaon this malady. It is likewise frequently occasioned by ntinuing long in a moist place, sitting near an open winow, sleeping in a damp bed, sitting in a room that has been ewly plastered, &c. I know people who never fail to have sore throat if they sit even but a short time in a room that is been lately washed.

Acrid or irritating food may likewise inflame the throat, ad occasion a quinsey. It may also proceed from bones, ins, or other sharp substances sticking in the throat, or om the caustic fumes of metals, or minerals, as arsenic, ntimony, &c. taken in by the breath. This disease is ometimes epidemic and infectious.

SYMPTOMS.—The inflammation of the throat is evient from inspection, the parts appearing red and swelled; esides, the patient complains of pain in swallowing. His talse is quick and hard, with other symptoms of a fever.— 'blood be let, it is generally covered with a tough coat, 'a whitish colour, and the patient spits a tough phlegm. is the swelling and inflammation increase, the breathing and swallowing become more difficult; the pain affects he ears; the eyes generally appear red; and the face vells. The patient is often obliged to keep himself in an cect posture, being in danger of suffocation; there is a onstant nausea, or inclination to vomit, and the drink, istead of passing into the stomach, is often returned by he nose. The patient is sometimes starved at last, merely com inability to swallow any kind of food.

When the breathing is laborious, with straitness of the reast, and anxiety, the danger is great. Though the ain in swallowing be very great, yet while the patient oreathes easy, there is not so much danger. An external welling is no unfavourable symptom; but if it suddenly falls, and the disease affects the breast, the danger is very great. When a quinsey is the consequence of some other disease, which has already weakened the patient, his situation is dangerous. A frothing at the mouth, with a swelled tongue, a pale, ghastly countenance, and coldness of the extremities, are fatal symptoms.

REGIMEN.—The regimen in this disease is in all respects the same as in the pleurisy, or peripneumony. The food must be light, and in small quantity, and the drink plentiful, weak, and diluting, mixed with acids.

It is highly necessary that the patient be kept easy and quiet. Violent affections of the mind, or great efforts of the body, may prove fatal. He should not even attempt to speak but in a low voice. Such a degree of warmth as to promote a constant, gentle sweat, is proper. When the patient is in bed, his head ought to be raised a little higher than usual.

It is peculiarly necessary that the neck be kept warm; for which purpose several folds of soft flannel may be wrapt round it. That alone will often remove a slight complaint of the throat, especially if applied in due time. We cannot here omit observing the propriety of a custom which prevails among the peasants of Scotland. When they feel any uneasiness of the throat, they wrap a stocking about it all night. So effectual is this remedy, that in many places it passes for a charm, and the stocking is applied with particular ceremonies: the custom, however, is undoubtedly a good one, and should never be neglected. When the throat has been thus wrapped up all night, it must not be exposed to the cold air through the day, but a handkerchief or a piece of flannel kept about it till the inflammation be removed.

The jelly of black currants is a medicine very much in esteem for complaints of the throat; and indeed it is of some use. It should be almost constantly kept in the mouth, and swallowed down leisurely. It may likewise be mixed in the patient's drink, or taken any other way. When it cannot be obtained, the jelly of red currants, or of mulberries, may be used in its stead.

Gargles for the throat are very beneficial. They may be made of sage-tea, with a little vinegar and honey, or

INFLAMMATION OF THE THROAT.

r adding to half an English pint of the pectoral decoction to or three spoonfuls of honey, and the same quantity of trant jelly. This may be used three or four times a-day; d if the patient be troubled with tough viscid phlegm, the rgle may be rendered more sharp and cleansing, by addg to it a tea-spoonful of the spirit of *sal ammoniac*. Some commend gargles made of a decoction of the leaves or rk of the black currant-bush; but where the jelly can be d, these are unnecessary.

There is no disease wherein the benefit of bathing the et and legs in lukewarm water is more apparent: that actice ought therefore never to be neglected. If people ere careful to keep warm, to wrap up their throats with nnel, to bathe their feet and legs in warm water, and to e a spare diet, with diluting liquors, at the beginning of is disease, it would seldom proceed to a great height, or attended with any danger; but when these precautions e neglected, and the disease becomes violent, more powerl medicines are necessary.

MEDICINE.—An Inflammation of the throat being a ost acute and dangerous distemper, which sometimes takes 'the patient very suddenly, it will be proper, as soon as symptoms appear, to bleed in the arm, or rather in the gular vein, and to repeat the operation if circumstances juire.

The body should likewise be kept gently open. This y either be done by giving the patient for his ordinary nk a decoction of figs and tamarinds, or small doses of ibarb and nitre, as recommended in the erysipelas. iese may be increased according to the age of the pant, and repeated till they have the desired effect.

I have often known very good effects from a bit of sal inel, or purified nitre, held in the mouth and swallowdown as it melted. This promotes the discharge of *iva*, by which means it answers the end of a gargle, ile at the same time it abates the fever, by promoting the charge of urine, &c.

The throat ought likewise to be rubbed twice or thrice lay with a little of the volatile liniment. This seldom ls to produce some good effects. At the same time the ck ought to be carefully covered with wool or flannel, to prevent the cold from penetrating the skin, as this application renders it very tender. Many other external applications are recommended in this disease, as a swallow's nest, poultices made of the fungus called Jew's ears, album Græcum, &c. But as we do not look upon any of these to be preferable to a common poultice of bread and milk, we shall take no farther notice of them.

Some recommend the gum-guaiacum as a specific in this disease. Half a drachm of the gum in powder may be made into an electuary with the rob of elder-berries, or the jelly of currants for a dose, and repeated occasionally*.

Blistering upon the neck or behind the ears in violent inflammations of the throat is very beneficial; and in bad cases it will be necessary to lay a blistering-plaster quite across the throat, so as to reach from ear to ear. After the plasters are taken off, the parts ought to be kept running by the application of issue ointment, till the inflammation is gone; otherwise, upon their drying up, the patient will be in danger of a relapse.

When the patient has been treated as above, a suppuration seldom happens. This however is sometimes the case, in spite of all endeavours to prevent it. When the inflammation and swelling continue, and it is evident that a suppuration will ensue, it ought to be promoted by drawing the steam of warm water into the throat through a tunnel, or the like. Soft poultices ought likewise to be applied outwardly, and the patient may keep a roasted fig constantly in his mouth.

It sometimes happens, before the tumour breaks, that the swelling is so great, as entirely to prevent any thing from getting down into the stomach. In this case the patient must inevitably perish, unless he can be supported in some other way. This can only be done by nourishing clysters of broth, or gruel with milk, &c. Patients have often been supported by these for several days, till the tumour has broke; and afterwards they have recovered.

Not only the swallowing, but the breathing, is often prevented by the tumour. In this case nothing can save the patient's life, but opening the *treachea* or wind-pipe. s that has been often done with success, no person, in ch desperate circumstances, ought to hesitate a moment out the operation; but as it can only be performed by surgeon, it is not necessary here to give any directions aut it.

When a difficulty of swallowing is not attended with an ute pain or inflammation, it is generally owing to an obuction of the glands about the throat, and only requires at the part be kept warm, and the throat frequently rgled with something that may gently stimulate the ands, as a decoction of figs with vinegar and honey; which may be added a little mustard, or a small quany of spirits. But this gargle is never to be used where ere are signs of an inflammation. This species of angina is various names among the common people, as the pap the throat, the falling down of the almonds of the ears, c. Accordingly, to remove it, they lift the patient up the hair of the head, and thrust their fingers under his ws, &c. all which practices are at best useless, and often utful.

Those who are subject to inflammations of the throat, in der to avoid that disease, ought to live temperate. Such do not chuse to observe this rule, must have frequent reurse to purging and other evacuations, to discharge the perfluous humours. They ought likewise to beware of tching cold, and should abstain from aliment and medines of an astringent or stimulating nature.

Violent exercise, by increasing the motion and force of e blood, is apt to occasion an inflammation of the throat, pecially if cold liquor be drunk immediately after it, or e body suffered suddenly to cool. Those who would oid this disease ought therefore, after speaking aloud, nging, running, drinking warm liquor, or doing any ing that may strain the throat, or increase the circulaon of the blood towards it, to take care to cool gradual-, and to wrap some additional coverings about their ocks.

I have often known persons who had been subject to re throats, entirely freed from that complaint by only earing a ribband, or a bit of flannel, constantly about eir necks, or by wearing thicker shoes, a flannel waistcoat, or the like. These may seem trifling, but they have great effect. There is danger indeed in leaving them off, after persons have been accustomed to them; but surely the inconveniency of using such things for life, is not to be compared with the danger which may attend the neglect of them.

Sometimes, after an inflammation, the glands of the throat continue swelled, and become hard and callous. This complaint is not easily removed, and is often rendered dangerous by the too frequent application of strong stimulating and styptic medicines. The best method is to keep it warm, and to gargle it twice a-day, with a decoction of figs sharpened a little with the elixir or spirit of vitriol.

OF THE MALIGNANT QUINSEY, OR PUTRID, ULCEROUS SORE THROAT.

This kind of quinsey is but little known in the northern parts of Britain, though, for some time past, it has been fatal in the more southern counties. Children are more liable to it than adults, females than males, and the delicate than those who are hardy and robust. It prevails chiefly in autumn, and is most frequent after a long course of damp or sultry weather.

CAUSES.—This is evidently a contagious distemper, and is generally communicated by infection. Whole families, and even entire villages, often receive the infection from one person. This ought to put people upon their guard against going near such patients as labour under the disorder; as by that means they endanger, not only their own lives, but likewise those of their friends and connections. Whatever tends to produce putrid or malignant fevers, may likewise occasion the putrid ulcerous sore throat, as unwholesome air, damaged provisions, neglect of cleanliness, &c.

SYMPTOMS.—It begins with alternate fits of shivering and heat. The pulse is quick, but low and unequal, and generally continues so, through the whole course of the disease. The patient complains greatly of weakness and oppression of the breast; his spirits are low, and he is apt

OR PUTRID, ULCEROUS SORE THROAT: 249

faint away when set upright; he is troubled with a haui, and often with a vomiting or purging. The two latare most common in children. The eyes appear red d watery, and the face swells. The urine is at first pale d crude; but, as the disease advances, it turns more of yellowish colour. The tongue is white, and generally pist, which distinguishes this from an inflammatory disse. Upon looking into the throat it appears swelled, d of a florid red colour. Pale, or ash-coloured spots, hower, are here and there interspersed, and sometimes one oad patch or spot, of an irregular figure, and pale white lour, surrounded with florid red, only appears. These nitish spots, or sloughs, cover so many ulcers.

An efflorescence, or eruption upon the neck, arms, east, and fingers, about the second or third day, is a comon symptom of this disease. When it appears, the purgg and vomiting generally cease.

There is often a slight degree of delirium, and the face quently appears bloated, and the inside of the nostrils red d inflamed. The patient complains of a disagreeable pu-1 smell, and his breath is very offensive.

The putrid, ulcerous sore throat may be distinguished m the inflammatory by the vomiting and looseness with ich it is generally ushered in ; the foul ulcers in the throat rered with a white or livid coat; and by the excessive akness of the patient; with other symptoms of a putrid er.

Unfavourable symptoms are, an obstinate purging, exme weakness, dimness of the sight, a livid or black coir of the spots, and frequent shiverings, with a weak, ttering pulse. If the eruption upon the skin suddenly appears, or becomes of a livid colour, with a discharge blood from the nose or mouth, the danger is very great. If a gentle sweat break out about the third or fourth 7, and continue with a slow, firm, and equal pulse; if sloughs cast off in a kindly manner, and appear clean 1 florid at the bottom; and if the breathing is soft and e, with a lively colour of the eyes, there is reason to be for a salutary crisis.

REGIMEN.—The patient must be kept quiet, and the most part in bed, as he will be apt to faint when

li

250 OF THE MALIGNANT QUINSEY, OR

taken out of it. His food must be nourishing and restorative; as sago-gruel, with red wine, jellies, strong broths, &c. His drink ought to be generous, and of an antiseptic quality; as red-wine negus, white wine-whey, and such like.

MEDICINE.—The medicine in this kind of quinsey is entirely different from that which is proper in the inflammatory. All evacuations, as bleeding, purging, &c. which weaken the patient, must be avoided. Cooling medicines, as nitre and cream of tartar, are likewise hurtful. Strengthening cordials alone can be used with safety; and these ought never to be neglected.

If at the beginning there is a great nausea, or inclination to vomit, the patient must drink an infusion of green tea, camomile flowers, or *carduus benidictus*, in order to cleanse the stomach. If these are not sufficient, he may take a few grains of the powder of ipecacuanha, or any other gentle vomit.

If the disease is mild, the throat may be gargled with an infusion of sage and rose leaves, to a gill of which may be added a spoonful or two of honey, and as much vinegar as will make it agreeably acid; but when the symptoms are urgent, the sloughs large and thick, and the breath very offensive, the following gargle may be used:

To six or seven ounces of the pectoral decoction, when boiling, add half an ounce of contrayerva-root; let it boil for some time, and afterwards strain the liquor; to which add two ounces of white-wine vinegar, an ounce of fine honey, and an ounce of the tincture of myrrh. This ought not only to be used as a gargle, but a little of it should frequently be injected with a syringe to clean the throat, before the patient takes any meat or drink. This method is peculiarly necessary for children, who cannot use a gargle.

It will be of great benefit if the patient frequently receives into his mouth, through an inverted funnel, the steams of warm vinegar, myrrh, and honey.

But when the putrid symptoms run high, and the disease is attended with danger, the only medicine that can be depended upon is the Peruvian bark. It may be taken in substance, if the patient's stomach will bear it.

PUTRID ULCEROUS SORE THROAT.

not, an ounce of bark, grossly powdered, with two drachms Virginian snake root, may be boiled in an English pint of a half of water to half a pint; to which a tea-spoonful the elixir of vitriol may be added, and an ordinary teaupful of it taken every three or four hours. Blistering asters are very beneficial in this disease, especially when e patient's pulse and spirits are low. They may be apied to the throat, behind the ears, or upon the back part the neck.

Should the vomiting prove troublesome, it will be proer to give the patient two table-spoonfuls of the saline julip ery hour. Tea made of mint and a little cinnamon will very proper for his ordinary drink, especially if an equal tantity of red-wine be mixed with it.

In case of a violent looseness, the size of a nut-meg of *ascordium*, or the japonic confection, may be taken two three times a-day, or oftener if necessary.

If a discharge of blood from the nose happens, the steams warm vinegar may be received up the nostrils fretently; and the drink must be sharpened with spirits of triol, or tincture of roses.

In case of a strangury, the belly must be fomented with irm water, and emollient clysters given three or four times day.

After the violence of the disease is over, the body should ll be kept open with mild purgatives; as manna, senna, ubarb, or the like.

If great weakness and dejection of spirits, or night-sweats, th other symptoms of a consumption, should ensue, we ould advise the patient to continue the use of the Peruin bark, with the elixir of vitriol, and to take frequently glass of generous wine. These, together with a milk-diet, d riding on horseback, are the most likely means for revering his strength.

CHAP. XXIX.

OF COLDS AND COUGHS.

T has already been observed, that colds are the effect of an obstructed perspiration; the common causes of which we have likewise endeavoured to point out, and shall not here repeat them. Neither shall we spend time in enumerating all the various symptoms of colds, as they are pretty generally known. It may not however be amiss to observe, that almost every cold is a kind of fever, which only differs in degree from some of those that have already been treated of.

No age, sex, or constitution, is exempted from this disease; neither is it in the power of any medicine or regimen to prevent it. The inhabitants of every climate are liable to catch cold, nor can even the greatest circumspection defend them at all times from its attacks. Indeed, if the human body could be kept constantly in an uniform degree of warmth, such a thing as catching cold would be impossible : but as that cannot be effected by any means, the perspiration must be liable to many changes. Such changes, however, when small, do not affect the health ; but, when great, they must prove hurtful.

When oppression of the breast, a stuffing of the nose, unusual weariness, pain of the head, &c. give ground to believe that the perspiration is obstructed, or, in other words, that the person has caught cold, he ought immediately to lessen his diet, at least the usual quantity of his solid food, and to abstain from all strong liquors. Instead of flesh, fish, eggs, milk, and other nourishing diet, he may eat light bread-pudding, veal or chicken broth, panado, gruels, and such like. His drink may be water-gruel sweetened with a little honey; an infusion of balm, or linseed sharpened with the juice of orange or lemon; a decoction of barley and liquorice, with tamarinds, or any other cool, diluting, acid liquor.

Above all, his supper should be light; as small posset, or water-gruel sweetened with honey, and a little toasted bread in it. If honey should disagree with the stomach,

and an

te gruel may be sweetened with treacle or coarse sugar, id sharpened with the jelly of currants. Those who have en accustomed to generous liquors may take wine-whey stead of gruel, which may be sweetened as above.

The patient ought to lie longer than usual a-bed, and to courage a gentle sweat, which is easily brought on toards morning, by drinking tea, or any kind of warm diting liquor. I have often known this practice carry off a Id in one day, which in all probability, had it been neected, would have cost the patient his life, or have conaed him for some months. Would people sacrifice a tle time to ease and warmth, and practice a moderate gree of abstinence when the first symptoms of a cold apar, we have reason to believe, that most of the bad effects hich flow from an obstructed perspiration might be prented. But, after the disease has gathered strength by lay, all attempts to remove it often prove vain. A pleuy, a peripneumony, or a fatal consumption of the lungs, e the common effects of colds which have either been toly neglected or treated improperly.

Many attempt to cure a cold, by getting drunk. But s, to say no worse of it, is a very hazardous experiment. o doubt it may sometimes succeed, by suddenly restorg the perspiration; but when there is any degree of inmmation, which is frequently the case, strong liquors, inad of removing the malady will increase it. By this ans a common cold may be converted into an inflammay fever.

verified in travellers, who, rather than lose a day in the prosecution of their business, throw away their lives by pursuing their journey, even in the severest weather, with this disease upon them.

It is certain, however, that colds may be too much indulged. When a person, for every slight cold, shuts himself up in a warm room, and drinks great quantities of warm liquor, it may occasion such a general relaxation of the solids as will not be easily removed. It will therefore, be proper, when the disease will permit, and the weather is mild, to join to the regimen mentioned above, gentle exercise; as walking, riding on horseback, or in a carriage, &c. An obstinate cold, which no medicine can remove, will yield to gentle exercise and a proper regimen of the diet.

Bathing the feet and legs in warm water has a great tendency to restore the perspiration. But care must be taken that the water be not too warm, otherwise it will do burt. It should never be much warmer than the blood, and the patient should go immediately to bed after using it. Bathing the feet in warm water, lying in bed, and drinking warm water-gruel, or other weak liquors, will sooner take off a spasm, and restore the perspiration, than all the hot sudorific medicines in the world. This is all that is necessary for removing a common cold ; and if this course be taken at the beginning, it will seldom fail.

But when the symptoms do not yield to abstinence, warmth, and diluting liquors, there is reason to fear the approach of some other disease, as an inflammation of the breast, an ardent fever, or the like. If the pulse therefore be hard and frequent, the skin hot and dry, and the patient complains of his head or breast, it will be necessary to bleed, and to give the cooling powders recommended in the scarlet fever every three or four hours, till they give a stool.

It will likewise be proper to put a blistering plaster on the back, to give two table-spoonfuls of the saline mixture every two hours, and in short to treat the patient in all respects as for a slight fever. I have often seen this course, when observed at the beginning, remove the complaint in two or three days, when the patient had all the symptoms an approaching ardent fever, or an inflammation of the east.

The chief secret of preventing colds lies in avoiding, as r as possible, all extremes either of heat or cold, and in king care when the body is heated, to let it cool gradually. nese, and other circumstances relating to this important bject, are so fully treated of under the article *Obstructed rspiration*, that it is needless here to resume the considerain of them.

OF A COMMON COUGH.

A cough is generally the effect of a cold, which has either en improperly treated, or entirely neglected. When it oves obstinate, there is always reason to fear the conseences, as this shews a weak state of the lungs, and is ofthe forerunner of a consumption.

If the cough be violent, and the patient young and strong, h a hard quick pulse, bleeding will be proper; but in ak and relaxed habits, bleeding rather prolongs the dise. When the patient spits freely, bleeding is unnecesy, and sometimes hurtful, as it tends to lessen that disurge.

When the cough is not attended with any degree of fe-, and the spittle is viscid and tough, sharp pectoral meines are to be administered; as gum ammoniac, squills, . Two table-spoonfuls of the solution of gum ammonimay be taken three or four times a day, more or less, ording to the age and constitution of the patient. ills may be given various ways: two ounces of the viar, the oxymel, or the syrup, may be mixed with the te quantity of simple cinnamon water, to which may be ed an ounce of common water and an ounce of balsamic up. Two table-spoonfuls of this mixture may be taken the or four times a-day.

syrup made of equal parts of lemon-juice, honey, and ar-candy, is likewise very proper in this kind of cough. able-spoonful of it may be taken at pleasure.

but when the defluxion is sharp and thin, these medicines her do hurt. In this case gentle opiates, oils, and muges, are more proper. A cup of an infusion of wild

OF A COMMON COUGH.

poppy leaves, and marsh mallow roots, or the flowers of colts-foot, may be taken frequently : or a tea-spoonful of the paregoric elixir may be put into the patient's drink twice a-day. Fuller's Spanish infusion is also a very proper medicine in this case, and may be taken in the quantity of a tea-cupful three or four times a-day *.

When a cough is occasioned by acrid humours tickling the throat and fauces, the patient should keep some soft pectoral lozenges almost constantly in his mouth; as the Pontefract liquorice cakes, barley-sugar, the common balsamic lozenges, Spanish juice, &c. These blunt the acrimony of the humours, and by taking off their stimulating quality, help to appease the cough +.

In obstinate coughs, proceeding from a flux of humours upon the lungs, it will often be necessary, besides expectorating medicines, to have recourse to issues, setons, or some other drain. In this case I have often observed the most happy effects from a Burgundy-pitch plaster, applied between the shoulders. I have ordered this simple remedy in the most obstinate coughs, in a great number of cases, and in many different constitutions, without ever knowing it fail to give relief, unless where there were evident signs of an ulcer in the lungs.

About the bulk of a nutmeg of Burgundy-pitch may be spread thin upon a piece of soft leather, about the size of the hand, and laid between the shoulder-blades. It may be taken off and wiped every three or four days, and ought to be renewed once a fortnight or three weeks. This i indeed a cheap and simple medicine, and consequently apt to be despised ; but we will venture to affirm, that the whole materia medica, does not afford an application more efficacious in almost every kind of cough. It has not indeed always an immediate effect; but, if kept on for

* See Appendix, Spanish Infusion.

+ In a former edition of this book I recommended, for an obstinat tickling cough, an oily emulsion, made with the paregoric elixir of th Edinburgh Dispensatory, instead of the common alkaline spirit. I hav since been told by several practitioners, that they found it to be an exce lent medicine in this disorder, and every way deserving of the characte which I had given it. Where this elixir is not kept, its place may be sup plied by adding to the common oily emulsion, an adequate proportion of the Thebaic tincture, or liquid laudanum.

OF A COMMON COUGH.

ie time, it will succeed where most other medicines.

The only inconveniency attending this plaster is the itchwhich it occasions; but surely this may be dispensed h, considering the advantage which the patient may ext to reap from the application; besides, when the itchbecomes very uneas, the plaster may be taken off, and part rubbed with a dry cloth, or washed with a little im milk and water. Some caution indeed is necessary liscontinuing the use of such a plaster; this, however, y be safely done by making it smaller by degrees, and ength quitting it altogether in a warm season *.

But coughs proceed from many other causes besides detions upon the lungs. In these cases the cure is not to attempted by pectoral medicines. Thus, in a cough ceeding from a foulness and debility of the stomach, ups, oils, mucilages, and all kinds of balsamic medies do hurt. The *stomach cough* may be known from one t is owing to a fault in the lungs by this, that in the er the patient coughs whenever he inspires, or draws nis breath fully; but in the former that does not hap-

The cure of this cough depends chiefly upon cleansing strengthening the stomach; for which purpose gentle nits and bitter purgatives are most proper. Thus, after omit or two, the sacred tincture, as it is called, may be on for a considerable time in the dose of one or two tableonfuls twice a-day, or as often as it is found necessary, keep the body gently open. People may make this ture themselves, by infusing an ounce of *biera piera* † in English pint of white wine, letting it stand a few days, then straining it.

n coughs which proceed from a debility of the stomach, Peruvian bark is likewise of considerable service. It

Some complain that the pitch plaster adheres too fast, while others difficulty in keeping it on. This proceeds from the different kinds of a made use of, and likewise from the manner of making it. I genefind it answer best when mixed with a little bees-wax, and spread as as possible. The clear, hard, transparent pitch answers the purpose

Kk

See Appendix, Hiera Picra.

may either be chewed, taken in powder, or made into a tincture along with other stomachic bitters.

A nervous cough can only be removed by change of air and proper exercise; to which may be added the use of gentle opiates. Instead of the saponaceous pill, the paregoric elixir, &c. which are only opium disguised, ten, fifteen, twenty, or twenty-five drops of liquid laudanum, more or less, as circumstances require, may be taken at bed-time, or when the cough is most troublesome. Immersing the feet and hands in warm water, will often appease the violence of a nervous cough.

When a cough is only the symptom of some other malady, it is in vain to attempt to remove it without first curing the disease from which it proceeds. Thus when a cough is occasioned by *teething*, keeping the body open, scarifying the gums, or whatever facilitates the cutting of the teeth, likewise appeases the cough. In like manner, when *worms* occasion a cough, such medicines as remove these vermin will generally cure the cough; as bitter purgatives, oily clysters, and such like.

Women, during the last months of pregnancy, are often greatly afflicted with a cough, which is generally relieved by bleeding, and keeping the body gently open.— They ought to avoid all flatulent food, and to wear a loose easy dress.

A cough is not only a symptom, but is often likewise the fore-runner of diseases. Thus, the gout is frequently ushered in by a very troublesome cough, which affects the patient for some days before the coming on of the fit. This cough is generally removed by a paroxysm of the gout, which should therefore be promoted, by keeping the extremities warm, drinking warm liquors, and bathing the feet and legs frequently in lukewarm water.

OF THE HOOPING-COUGH, OR CHIN-COUGH.

This cough seldom affects adults, but proves often fatal to children. Such children as live upon thin watery diet, who breathe unwholesome air, and have too little exercise, are most liable to this disease, and generally suffer most from it. The chin-cough is so well known, even to nurses, that a scription of it is unnecessary. Whatever hurts the distion, obstructs the perspiration, or relaxes the solids, poses to this disease : consequently its cure must depend on cleansing and strengthening the stomach, bracing the ids, and at the same time promoting perspiration and the ferent secretions.

The diet must be light, and of easy digestion; for chilen, good bread made into pap or pudding, chicken-broth, th other light spoon-meats, are proper; but those who farther advanced may be allowed sago-gruel, and if the rer be not high, a little boiled chicken, or other white eats. The drink may be hysop, or penny-royal tea, eetened with honey or sugar-candy, small wine whey; if the patient be weak, he may sometimes be allowed a the negus.

One of the most effectual remedies in the chin-cough is ange of air. This often removes the malady, even when change seems to be from a purer to a less wholesome. This may in some measure depend on the patient's ng removed from the place where the infection prevails. ost of the diseases of children are infectious; nor is it at uncommon to find the chin-cough prevailing in one on or village, when another, at a very small distance, is ite free from it. But whatever be the cause, we are sure the fact. No time ought therefore to be lost in remov-; the patient at some distance from the place where he ight the disease, and, if possible, into a more pure and rm air *.

When the disease proves violent, and the patient is in ager of being suffocated by the cough, he ought to be d, especially if there be a fever with a hard full pulse. t as the chief intention of bleeding is to prevent an innmation of the lungs, and to render it more safe to give nits, it will seldom be necessary to repeat the operation;

Some think the air ought not to be changed till the disease is on the line; but there seems to be no sufficient reason for this opinion, as pats have been known to reap benefit from a change of air at all periods the disease. It is not sufficient to take the patient out daily in a carte. This seldom answers any good purpose; but often does hurt, by ng him cold.

yet if there are symptoms of an inflammation of the lungs, a second or even a third bleeding may be requisite.

It is generally reckoned a favourable symptom when a fit of coughing makes the patient vomit. This cleanses the stomach, and greatly relieves the cough. It will therefore be proper to promote this discharge, either by small doses of ipecacuanha, or the vomiting julep recommended in the Appendix *.

It is very difficult to make children drink after a vomit. I have often seen them happily deceived, by infusing a scruple or half a drachm of the powder of ipecacuanha in a tea-pot, with half an English pint of boiling water. If this be disguised with a few drops of milk and a little sugar, they will imagine it tea, and drink it very greedily.— A small tea-cupful of this may be given every quarter of an hour, or rather every ten minutes, till it operates. When the child begins to puke, there will be no occasion for drinking any more, as the water already on the stomach will be sufficient.

Vomits not only cleanse the stomach, which in this disease is generally loaded with viscid phlegm, but they likewise promote the perspiration and other secretions, and ought therefore to be promoted according to the obstinacy of the disease. They should not however be strong; gentle vomits frequently repeated are both less dangerous, and more beneficial than strong ones.

The body ought to be kept gently open. The best medicines for this purpose are rhubarb and its preparations, as the syrup, tincture, &c. Of these a tea-spoonful or two may be given to an infant twice or thrice a-day, as there is occasion. To such as are farther advanced, the dose must be proportionally increased, and repeated till it has the desired effect. Those who cannot be brought to take the bitter tincture, may have an infusion of senna and prunes, sweetened with manna, coarse sugar, or honey; or a few grains of rhubarb mixed with a tea-spoonful or two of syrup, or currant jelly, so as to diguise the taste. Most children are fond of syrups and jellies, and seldom refuse even a disagreeable medicine when mixed with them. Many people believe that oily, pectoral, and balsamic

* See Appendis, Vomiting Julep.

nedicines possess won lerful virtues for the cure of the chinough, and accordingly exhibit them plentifully to patients fevery age and constitution, without considering that every ing of this nature must load the stomach, hurt the digeson, and of course aggravate the disorder *.

The *millepedes*, or woodlice, are greatly recommended or the cure of a chin-cough. Those who chuse to make se of these insects, may infuse two ounces of them bruis-1 in an English pint of small white-wine for one night. ferwards the liquor may be strained through a cloth, and table-spoonful of it given to the patient three or four times day.

Opiates are sometimes necessary to allay the violence of ne cough. For this purpose a little of the syrup of popies, or five, six, or seven drops of laudanum, according to ne age of the patient, may be taken in a cup of hyssop or enny-royal tea, and repeated occasionally \uparrow .

The garlic ointment is a well known remedy in Northritain for the chin-cough. It is made by beating in a lortar garlic with an equal quantity of hogs lard. With his the soles of the feet may be rubbed twice or thrice ahy; but the best method is to spread it upon a rag, and oply it in the form of a plaster. It should be renewed very night and morning at least, as the garlic soon loses s virtue. This is an exceeding good medicine both in the hin-cough, and in most other coughs of an obstinate nahre. It ought not however to be used when the patient very hot or feverish, lest it should increase these sympoms.

The feet should be bathed once every two or three days i lukewarm water; and a Burgundy-pitch plaster kept onstantly between the shoulders. But when the disease

* Dr DUPLANII says, he has seen many good effects from the kermes ineral in this complaint, the cough being frequently alleviated even by the first dose. The dose for a child of one year old, is a quarter of a grain ssolved in a cup of any liquid, repeated two or three times a-day. For child of two years the dose is half a grain; and the quantity must be instince ased in proportion to the age of the patient.

+ Some recommend the extract of hemlock as an extraordinary remedy the hooping-cough; but so far as I have been able to observe, it is no ay superior to opium, which, when properly administered, will often reeve some of the most troublesome symptoms of this disorder. proves very violent, it will be necessary, instead of it, to apply a blistering-plaster, and to keep the part open for some time with issue-ointment.

When the disease is prolonged, and the patient is free from a fever, the Peruvian bark, and other bitters, are the most proper medicines. The bark may either be taken in substance, or in a decoction or infusion, as is most agreeable. For a child, ten, fifteen, or twenty grains, according to the age of the patient, may be given three or four times a-day. For an adult, half a drachm, or two scruples will be proper. Some give the extract of the bark with cantharides; but to manage this requires a considerable attention. It is more safe to give a few grains of castor along with the bark. A child of six or seven years of age may take seven or eight grains of caster, with fifteen grains of powdered bark, for a doze. This may be made into a mixture, with two or three ounces of any simple distilled water, and a little syrup, and taken three or four times a-day.

CHAP XXX.

INFLAMMATION OF THE STOMACH, AND OTHER VISCERA.

A LL inflammations of the bowels are dangerous and require the most speedy assistance; as they frequently end in a supperation, and sometimes in a mortification, which is certain death.

CAUSES.—An inflammation of the stomach may proceed from any of the causes which produce an inflammatory fever; as cold liquor drunk while the body is warm, obstructed perspiration, or the sudden striking in of any eruption. It may likewise proceed from the acrimony of the bile, or from acrid and stimulating substances taken into the stomach; as strong vomits or purges, corrosive poisons, and such like. When the gout has been repeled from the extremities, either by cold or improper applications, it often occasions an inflammation of the stomach. Hard or indigestable substances taken into the stomach,

INFLAMMATION OF THE STOMACH, &c. 263

bones, the stones of fruit, &c. may likewise have that efct.

SYMPTOMS.—It is attended with a fixed pain and burng heat in the stomach; great restlessness and anxiety; a nall, quick, and hard pulse; vomiting, or, at least, a usea and sickness; excessive thirst; coldness of the exemities; difficulty of breathing; cold clammy sweats; d sometimes convulsions and fainting fits. The stomach swelled, and often feels hard to the touch. One of the ost certain signs of this disease is the sense of pain, nich the patient feels upon taking any kind of food or ink, especially if it be either too hot or too cold.

When the patient vomits every thing he eats or drinks, extremely restless, has a hiccup, with an intermitting ilse, and frequent fainting fits, the danger is very eat.

REGIMEN.—All acrimonious, heating, and irritating od and drink are carefully to be avoided. The weakness the patient may deceive the by-standers, and induce em to give him wines, spirits, or other cordials; but ese never fail to increase the disease, and often occasion Iden death. The inclination to vomit may likewise pose on the attendants, and make them think a vomit cessary; but that too is almost certain death.

The food must be light, thin, cool, and easy of digesn. It must be given in small quantities, and should ther be quite cool nor too hot. Thin gruel made of rley or oatmeal, light toasted bread dissolved in boiling ter, or very weak chicken broath, are the most proper. It drink should be clear whey, barley-water, water in tich toasted bread has been boiled, or decoctions of ollient vegetables; as liquorice and marsh-mallow roots, saparilla, &c.

MEDICINE.—Bleeding in this disease is absolutely cessary, and is almost the only thing that can be dependon. When the disease proves obstinate, it will often proper to repeat this operation several times, nor must : low state of the pulse deter us from doing so. The lse indeed generally rises upon bleeding, and as long as it is the case, the operation is safe.

Frequent fomentations with lukewarm water, or a de-

264 INFLAMMATION OF THE STOMACH, &c.

coction of emollient vegetables, are likewise beneficial. Flannel cloths dipped in these must be applied to the region of the stomach, and removed as they grow cool. They must neither be applied too warm, nor be suffered to continue till they become quite cold, as either of these extremities would aggravate the disease.

The feet and legs ought likewise to be frequently bathed in lukewarm water, and warm bricks or poultices may be applied to the soles of the feet. The warm bath, if it can be conveniently used, will be of great service.

In this, and all other inflammations of the bowels, an epispastic, or blistering-plaster, applied over the part affected, is one of the best remedies I know. I have often used it, and do not recollect one instance wherein it did not give relief to the patient.

The only internal medicines which we shall venture to recommend in this disease, are mild clysters. These may be made of warm water, or thin water-gruel; and if the patient is costive, a little sweet oil, honey, or manna, may be added. Clysters answer the purpose of an internal fomentation, while they keep the body open, and at the same time nourish the patient, who is often in this disease unable to retain any food upon his stomach. For these reasons they must not be neglected, as the patient's life may depend on them.

INFLAMMATION OF THE INTESTINES.

This is one of the most painful and dangerous diseases that mankind is liable to. It generally proceeds from the same *causes* as the inflammation of the stomach; to which may be added costiveness, worms, eating unripe fruits, or great quantities of nuts, drinking hard windy malt liquors, as stale bottled beer or ale, sour wine, cyder, &c. It may likewise be occasioned by a rupture, by schirrous tumours of the intestines, or by their opposite sides growing together.

The inflammation of the intestines is denominated *liac* passion, Enteritis, Gc. according to the names of the parts affected. The treatment however is nearly the same, whatevery part of the intestinal canal be the seat of the disease;

INFLAMMATION OF THE INTESTINES. 265

shall therefore omit these distinctions, lest they should rplex the reader.

The symptoms here are nearly the same as in the foreing disease; only the pain, if possible, is more acute, d is situated lower. The vomiting is likewise more blent, and sometimes even the excrements, together with c clysters are discharged by the mouth. The patient is ntinually belching up wind, and has often an obstruction his urine.

While the pain shifts, and the vomiting only returns at rtain intervals, and while the clysters pass downwards, ere is ground for hope; but when the clysters and *faces* vomited, and the patient is exceeding weak, with a low ttering pulse, a pale countenance, and a disagreeable or nking breath, there is great reason to fear that the conseences will prove fatal. Clammy sweats, black foetid ols, with a small intermitting pulse, and a total cessation pain, are signs of a mortification already begun, and of proaching death.

REGIMEN.—The regimen in this disease is in general e same as in an inflammation of the stomach. The pant must be kept quiet, avoiding cold, and all violent ssions of the mind. His food ought to be very light, and en in small quantities; his drink weak and diluting; as ar whey, barley-water, and such like.

MEDICINE.—Bleeding in this, as well as in the inflamtion of the stomach, is of the greatest importance. It ould be performed as soon as the symptoms appear, and ist be repeated according to the strength of the patient, 1 the violence of the disease.

A blistering plaster is here likewise to be applied immetely over the part where the most violent pain is. This only relieves the pain of the bowels, but even clysters 1 purgative medicines, which before had no effect, will erate when the blister begins to rise.

Fomentations and laxative clysters are by no means to omitted. The patient's feet and legs should frequently bathed in warm water; and cloths dipped in it applied his belly. Bladders filled with warm water may likese be applied to the region of the navel, and warm icks, or bottles filled with warm water, to the soles of

266 INFLAMMATION OF THE INTESTINES.

the feet. The clysters may be made of barley-water or thin gruel with salt, and softened with sweet oil or fresh butter. These may be administered every two or three hours, or oftener, if the patient continues costive.

If the disease does not yield to clysters and fomentations, recourse must be had to pretty strong purgatives; but as these, by irritating the bowels, often increase their contraction, and by that means frustrate their own intention, it will be necessary to join them with opiates, which, by allaying the pain, and relaxing the spasmodic contractions of the guts, greatly assist the operation of purgatives in this case.

What answers the purpose of opening the body very well, is a solution of the bitter purging salts. Two ounces of these may be dissolved in an English pint of warm water, or thin gruel, and a tea-cupful of it taken every half hour till it operates. At the same time, fifteen, twenty, or twenty-five drops of laudanum may be given in a glass of peppermint or simple cinnamon water, to appease the irritation, and prevent the vomiting, &c.

Acids have often a very happy effect in staying the vomiting, and appeasing the other violent symptoms of this disease. It will therefore be of use to sharpen the patient's drink with cream of tartar, juice of lemon; or, when these cannot be obtained, with vinegar.

But it often happens that no liquid whatever will stay on the stomach. In this case the patient must take purging pills. I have generally found the following answer very well: Take jalap in powder, and vitriolated tartar, of each half a drachm, opium one grain, Castile soap as much as will make the mass fit for pills. These must be taken at one dose, and if they do not operate in a few hours, the dose may be repeated.

If a stool cannot be procured by any of the above means, it will be necessary to immerse the patient in warm water up to the breast. I have often seen this succeed when other means had been tried in vain. The patient must continue in the water as long as he can easily bear it without fainting, and if one immersion has not the desired effect, it may be repeated as soon as the patient's strength and spirits are recruited. It is more safe for him to go

267

equently into the bath, than to continue too long at a ne; and it is often necessary to repeat it several times fore it has the desired effect.

It has sometimes happened, after all other means of proring a stool had been tried to no purpose, that this was ought about by immersing the patient's lower extremis in cold water, or making him walk upon a wet paveent, and dashing his legs and thighs with the cold water. his method, when others fail, at least merits a trial. It indeed attended with some danger; but a doubtful reedy is better than none.

In desperate cases it is common to give quicksilver. inis may be given to the quantity of several ounces, or en a pound, but should not exceed that *. When there reason to suspect a mortification of the guts, this medine ought not to be tried. In that case it cannot cure e patient, and will only hasten his death. But when the struction is occasioned by any cause that can be removed force, quicksilver is not only a proper medicine, but the ist that can be administered, as it is the fittest body we now for making its way through the intestinal canal.

If the disease proceed from a rupture, the patient must laid with his head very low, and the intestines returnby gentle pressure with the hand. If this, with fomenion and clysters, should not succeed, recourse must be ld to a surgical operation, which may give the patient ref.

Such as would avoid this excruciating and dangerous sease, must take care never to be too long without a stool. me who have died of it have had several pounds of hard y *faces* taken out of their guts. They should likewise ware of eating too freely of sour or unripe fruits, or drinkg stale windy liquors, &c. I have known it brought on living too much on baked fruits, which are seldom good. likewise proceeds frequently from cold caught by wet othes, &c. but especially from wet feet.

* When quicksilver is given in too large quantities, it defeats its own ention, as it drags down the bottom of the stomach, which prevents getting over the Pylorus. In this case the patient should be hung up the heels, in order that the quicksilver may be discharged by his outh.

OF THE COLIC.

The colic has a great resemblance to the two preceding diseases, both in its symptoms and method of cure. It is generally attended with costiveness and acute pain of the bowels; and requires diluting diet, evacuations, fomentations, &c.

Colics are variously denominated according to their causes, as the *flatulent*, the *bilious*, the *hysteric*, the *nervous*, &c. As each of these requires a particular method of treatment, we shall point out their most general symptoms, and the means to be used for their relief.

The *flatulent*, or wind colic, is generally occasioned by an indiscreet use of unripe fruits, meats of hard digestion, windy vegetables, fermenting liquors, and such like. It may like-wise proceed from an obstructed perspiration, or catching cold. Delicate people, whose digestive powers are weak, are most liable to this kind of colic.

The flatulent colic may either affect the stomach or intestines. It is attended with a painful stretching of the affected part. The patient feels a rumbling in his guts, and is generally relieved by a discharge of wind, either upwards or downwards. The pain is seldom confined to any particular part, as the vapour wanders from one division of the bowels to another till it finds a vent.

When the disease proceeds from windy liquor, green fruit, sour herbs, or the like, the best medicine on the first appearance of the symptoms is a dram of brandy, gin, or any good spirits. The patient should likewise sit with his feet upon a warm hearth stone, or apply warm bricks to them; and warm cloths may be applied to his stomach and bowels.

This is the only colic wherein ardent spirits, spiceries, or any thing of a hot nature may be ventured upon. Nor indeed are they to be used here unless at the very begining, before any symptoms of inflammation appear. We have reason to believe, that a colic occasioned by wind or flatulent food might always be cured by spirits and warm liquors, if they were taken immediately upon perceiving the first uneasiness; but when the pain has continued for a considerable time, and there is reason to fear an inflamtion of the bowels is already begun, all hot things are be avoided as poison, and the patient is to be treated in same manner as for the inflammation of the intestines. Several kinds of food, as honey, eggs, &c. occasion colics some particular constitutions. I have generally found best method of cure for these was to drink plentifully small diluting liquors, as water-gruel, small posset, water th toasted bread soaked in it, &c.

Colics which proceed from excess and indigestion geally cure themselves by occasioning vomiting or purg-. These discharges are by no means to be stopped, t promoted by drinking plentifully of warm water, or ak posset. When their violence is over, the patient y take a dose of rhubarb, or any other gentle purge, to rry off the dregs of his debauch.

Colics which are occasioned by wet feet, or catching d, may generally be removed at the beginning, by bath-; the feet and legs in warm water, and drinking such rm diluting liquors as will promote the perspiration, as ak wine-whey, or water-gruel, with a small quantity of rits in it.

Those flatulent colics, which prevail so much among intry people, might generally be prevented were they eful to change their clothes when they get wet. They is the likewise to take a dram, or to drink some warm lior after eating any kind of green trash. We do not mean recommend the practice of dram-drinking, but in this e ardent spirits prove a real medicine, and indeed the it that can be administered. A glass of good peppernt water will have nearly the same effect as a glass of andy, and in some cases is rather to be preferred.

The bilious colic is attended with very acute pains about region of the navel. The patient complains of great rst, and is generally costive. He vomits a hot, bitter, low-coloured bile, which being discharged, seems to afd some relief, but is quickly followed by the same viot pain as before. As the distemper advances, the pronsity to vomit sometimes increases so as to become alst continual, and the proper motion of the intestines is far perverted, that there are all the symptoms of an imnding iliac passion, If the patient be young and strong, and the pulse full and frequent, it will be proper to bleed, after which cly. sters may be administered. Clear whey or gruel, sharpen, ed with the juice of lemon, or cream of tartar, must be drunk freely. Small chicken broth, with a little manna dissolved in it, or a slight decoction of tamarinds, are likewise very proper, or any other thin, acid, opening liquor.

Besides bleeding and plentiful dilution, it will be necessary to foment the belly with cloths dipped in warm water, and if this should not succeed, the patient must be immersed up to the breast in warm water.

In the bilious colic the vomiting is often very difficult to restrain. When this happens, the patient may drink a decoction of toasted bread, or an infusion of garden-mint in boiling water. Should these not have the desired effect, the saline draught, with a few drops of laudanum in it, may be given and repeated according to the urgency of the symptoms. A small quantity of Venice treacle may be spread in form of a cataplasm, and applied to the pit of the stomach. Clysters, with a proper quantity of Venice treacle, or liquid laudanum in them, may likewise be frequently administered.

Such as are liable to frequent returns of the bilious colic should use flesh sparingly, and live chiefly upon a light vegetable diet. They should likewise take frequently a dose of cream of tartar with tamarinds, or any other cool acid purge.

The *bysteric* colic bears a great resemblance to the bilious. It is attended with acute pains about the region of the stomach, vomiting, &c. But what the patient vomits in this case is commonly of a greenish colour. There is a great sinking of the spirits, with dejection of mind and difficulty of breathing, which are the characteristic symptoms of this disorder. Sometimes it is accompanied with the jaundice, but this generally goes off of its own accord, in a few days.

In this colic all evacuations, as bleeding, purging, vomiting, &c. do hurt. Every thing that weakens the patient, or sinks the spirits, is to be avoided. If, however, the vomiting should prove violent, lukewarm water, or small posset, may be drunk to cleanse the stomach. Afwards the patient may take fifteen, twenty, or twentye drops of liquid laudanum in a glass of cinnamon wa-This may be repeated every ten or twelve hours till

symptoms abate.

The patient may likewise take four or five of the foctid s every six hours, and drink a cup of penny-royal tea er them. If asafoctida should prove disagreeable, which ometimes the case, a tea spoonful of the tincture of casin a cup of penny-royal tea, or thirty or forty drops of balsam of Peru dropped upon a bit of loaf-sugar, may taken in its stead. The anti-hysteric plaster may also used, which has often a good effect *.

The nervous colic prevails among miners, smelters of 1, plumbers, the manufacturers of white lead, &c. It ery common in the cyder counties of England, and is posed to be occasioned by the leaden vessels used in paring that liquor. It is likewise a frequent disease in West Indies, where it is termed the dry belly-ache.

No disease of the bowels is attended with more excrucing pain than this. Nor is it soon at an end. I have we it continue eight or ten days with very little intersion, the body all the while continuing bound in spite medicine, yet at length yield, and the patient recover \ddagger . renerally, however, leaves the patient weak, and often as in a palsy.

The general treatment of this disease is so nearly the e with that of the iliac passion, or inflammation of the s, that we shall not insist upon it. The body is to be ned by mild purgatives given in small doses, and frently repeated, and their operation must be assisted by oily clysters, fomentations, &c. The castor oil is reckd peculiarly proper in this disease. It may both be ed with the clysters and given by the mouth.

The Barbadoes tar is said to be an efficacious medicine his complaint. It may be taken to the quantity of two

See Appendix, Anti-hysteric Plaster.

As the smoke of tobacco thrown into the bowels will often procure of when all other means have failed, an apparatus for this purpose it to be kept by every surgeon. It may be purchased at a small exe, and will be of service in several other cases, as the recovery of med persons, &c. drachms three times a day, or oftener if the stomach will bear it. This tar, mixed with an equal quantity of strong rum, is likewise proper for rubbing the spine, in case any tingling, or other symptoms of a palsy, are felt. When the tar cannot be obtained, the back may be rubbed with strong spirits, or a little oil of nutmegs or of rosemary.

If the patient remains weak and languid after this disease, he must take exercise on horseback, and use an infusion of the Peruvian bark in wine. When the disease ends in a palsy, the Bath-waters are found to be extremely proper.

To avoid this kind of colic, people must shun all sour fruits, acids, and austere liquors, &c. Those who work in lead ought never to go to their business fasting, and their food should be oily or fat. They may take a glass of sallad oil, with a little brandy or rum every morning, but should never take spirits alone. Liquid aliment is best for them; as fat broths, &c. but low living is bad. They should frequently go a little out of the tainted air; and should never suffer themselves to be costive. In the West Indies, and on the coast of Guinea, it has been found of great use, for preventing this colic, to wear a piece of flannel round the waist, and to drink an infusion of ginger by way of tea.

Sundry other kinds of this disease might be mentioned, but too many distinctions would tend only to perplex the reader. Those already mentioned are the most material, and should indeed be attended to, as their treatment is very different. But even persons who are not in a condition to distinguish very accurately in these matters, may nevertheless be of great service to patients in colics of every kind, by only observing the following general rules, *viz.* To bathe the feet and legs in warm water; to apply bladders filled with warm water, or cloths dipped in it, to the stomach and bowels; to make the patient drink freely of diluting mucilaginous liquors, and to give him an emollient clyster every two or three hours. Should these not succeed, the patient ought to be immersed in warm water.

INFLAMMATION OF THE KIDNEYS.

CAUSES.—This disease may proceed from any of those uses which produce an inflammatory fever. It may swise be occasioned by wounds or bruises of the kidrs; small stones or gravel lodging within them; by ong diuretic medicines; as spirits of turpentine, tincture cantharides, &c. Violent motion, as hard riding or lking, especially in hot weather, or whatever drives the od too forcibly into the kidneys, may occasion this lady. It may likewise proceed from lying too soft, too ch on the back, involuntary contractions, or spasms, lhe urinary vessels, &c.

SYMPTOMS.—There is a sharp pain about the region the kidneys, with some degree of fever, and a stupor dull pain in the thigh of the affected side. The urine t first clear, and afterwards of a reddish colour; but in worst kind of the disease it generally continues pale, assed with difficulty, and commonly in small quantities t time. The patient feels great uneasiness when he envours to walk or sit upright. He lies with most ease the affected side, and has generally a nausea or vomit-, resembles that which happens in the colic.

This disease however may be distinguished from the coby the pain being seated farther back, and by the difficy of passing urine with which it is constantly attended. EGIMEN .- Every thing of a heating or stimulating ure is to be avoided. The food must be thin and light; panado, small broths, with mild vegetables, and the . Emollient and thin liquors must be plentifully drunk ; lear whey, or balm-tea sweetened with honey, decoc-1 of marsh-mallow roots, with barley and liquorice, &c. e patient, notwithstanding the vomiting, must constantceep sipping small quantities of these or other diluting tors. Nothing so safely and certainly abates the inflamion and expels the obstructing cause, as copious dilu-. The patient, must be kept easy, quiet, and free n cold, as long as any symptoms of inflammation ren.

AEDICINE.—Bleeding is generally necessary, especiat the beginning. Ten or twelve ounces may be let M m from the arm or foot with a lancet, and if the pain and inflammation continue, the operation may be repeated in twenty-four hours, especially if the patient be of a full habit. Leeches may likewise be applied to the hæmorrhoidal veins, as a discharge from these will greatly relieve the patient.

Cloths dipped in warm water, or bladders filled with it, must be applied as near as possible to the part affected, and renewed as they grow cool. If the bladders be filled with a decoction of mallews and camomile flowers, to which a little saffron is added, and mixed with about a third part of new milk, it will be still more beneficial.

Emollient clysters ought frequently to be administered; and if these do not open the body, a little salt and honey or manna may be added to them.

The same course is to be followed where gravel or stone is lodged in the kidney, but when the gravel or stone is separated from the kidney, and lodges in the Ureter *, it will be proper besides the fomentations, to rub the small of the back with sweet oil, and to give gentle diuretics; as juniper-water sweetened with the syrup of marsh-mallows: a tea-spoonful of the sweet spirits of nitre, with a few drops of laudanum, may now and then be put in a cup of the patient's drink. He ought likewise to take exercise on horseback, or in a carriage, if he be able to bear it.

When the disease is protracted beyond the seventh or eighth day, and the patient complains of a stupor and heaviness of the part, the frequent returns of chillness, shivering, &c. there is reason to suspect that matter is forming in the kidney, and that an abscess will ensue.

When matter in the urine shew that an ulcer is already formed in the kidney, the patient must be careful to abstain from all acrid, sour, and salted provisions; and to live chiefly upon mild mucilaginous herbs and fruits, together with the broth of young animals, made with barley, and common pot-herbs, &c. His drink may be whey,

* The Ureters are two long and small canals, one on each side, which carry the urine from the bason of the kidneys to the bladder. The are sometimes obstructed by small stones of gravel falling down from the kidneys, and lodging in them.

INFLAMMATION OF THE BLADDER.

ad butter-milk that is not sour. The latter is by some ckoned a specific remedy in ulcers of the kidneys. To swer this character, however, it must be drunk for a nsiderable time. Chalybeate waters have likewise been and beneficial in this disease. This medicine is easily tained, as it is found in every part of Great Britain. It ust likewise be used for a considerable time, in order to oduce any salutary effects.

Those who are liable to frequent returns of inflammaon, or obstructions of the kidneys, must abstain from nes, especially such as abound with tartar; and their od ought to be light, and of easy digestion. They should e moderate exercise, and should not lie too hot, nor too uch on their back.

INFLAMMATION OF THE BLADDER.

THE inflammation of the bladder proceeds, in a great easure, from the same causes as that of the kidneys. It known by an acute pain towards the bottom of the lly, and difficulty of passing urine, with some degree of ver, a constant inclination to go to stool, and a perpetual sire to make water.

This disease must be treated on the same principles as e one immediately preceding. The diet must be light d thin, and the drink of a cooling nature. Bleeding is ry proper at the beginning, and in robust constitutions will often be necessary to repeat it. The lower part of e body should be fomented with water, or a decoction mild vegetables; and emollient clysters ought frequentto be administered, &c.

The patient should abstain from every thing that is of a t, acrid, and stimulating quality, and should live entireupon small broths, gruels, or mild vegetables.

A stoppage of urine may proceed from other causes beles an infiammation of the bladder; as a swelling of the morrhoidal veins, hard *faces* lodged in the *rectum*; a one in the bladder; excreacences in the urinary passages, palsy of the bladder, hysteric affections, &c. Each of ese requires a particular treatment, which does not fall ider our present consideration. We shall only observe,

that in all of them mild and gentle applications are the safest, as strong diuretic medicines, or things of an irritating nature, generally increase the danger. I have known some persons kill themselves by introducing probes into the urinary passages, to remove, as they thought, somewhat that obstructed the discharge of urine, and others bring on a violent inflammation of the bladder, by using strong diuretics, as oil of turpentine, &c. for that purpose.

INFLAMMATION OF THE LIVER.

THE liver is less subject to inflammation than most of the other viscera, as in it the circulation is slower; but when an inflammation does happen, it is with difficulty removed, and often ends in a suppuration or scirrhus.

CAUSES.—Besides the common causes of inflammation, we may here reckon the following, viz. excessive fatness, a scirrhus of the liver itself, violent shocks from strong vomits when the liver was before unsound, an adust or atrabiliarian state of the blood, any thing that suddenly cools the liver after it has been greatly heated, stones obstructing the course of the bile, drinking strong wines and spirituous liquors, using hot spicy aliment, obstinate hypochondriacal affections, &c.

SYMPTOMS.—This disease is known by a painful tension of the right side under the false ribs, attended with some degree of fever, a sense of weight, or fulness of the part, difficulty of breathing, loathing of food, great thirst, with a pale or yellowish colour of the skin and eyes.

The symptoms here are various, according to the degree of inflammation, and likewise according to the particular part of the liver where the inflammation happens. Sometimes the pain is so inconsiderable, that an inflammation is not so much as suspected; but when it happens in the upper or convex part of the liver, the pain is more acute, the pulse quicker, and the patient is often troubled with a dry cough, a hiccup, and a pain extending to the shoulder, with difficulty of lying on the left side, &c.

This disease may be distinguished from the pleurisy by the pain being less violent, seated under the false ribs, the pulse not so hard, and by the difficulty of lying on

e left side. It may be distinguished from the hysteric ad hypochondriac disorders by the degree of fever with nich it is always attended.

This disease, if properly treated, is seldom mortal. A nstant hiccuping, violent fever, and excessive thirst, are d symptoms. If it ends in a suppuration, and the matr cannot be discharged outwardly, the danger is great.— Then the scirrhus of the liver ensues, the patient, if he obtwes a proper regimen, may nevertheless live a number years tolerably easy; but if he indulge in animal food d strong liquors, or take medicines of an acrid or irritatg nature, the scirrhus will be converted into a cancer, hich must infallibly prove fatal.

REGIMEN.—The same regimen is to be observed in is as in other inflammatory disorders. All hot things are be carefully avoided, and cool diluting liquors, as whey, ey-water, &c. drunk freely. The food must be light id thin, and the body, as well as the mind, kept easy and niet.

MEDICINE.—Bleeding is proper at the beginning of is disease, and it will often be necessary, even though the lse should not feel hard to repeat it. All violent purgaes are to be avoided; the body however must be kept ntly open. A decoction of tamarinds, with a little honey manna, will answer this purpose very well. The side ected must be fomented in the manner directed in the regoing diseases. Mild laxative clysters should be freently administered; and, if the pain should notwithstand-; continue violent, a blistering plaster may be applied er the part affected.

Medicines which promote the secretion of urine have a ry good effect here. For this purpose half a drachm of trified nitre, or a tea-spoonful of the sweet spirits of nitre, ry be taken in a cup of the patient's drink three or four nes a-day.

When there is an inclination to sweat, it ought to be omoted, but not by warm sudorifies. The only thing be used for that purpose is plenty of diluting liquors unk about the warmth of the human blood. Indeed e patient in this case, as well as in all other topical in-

INFLAMMATION OF THE LIVER.

278

flammations, ought to drink nothing that is colder than the blood.

If the stools should be loose, and even streaked with blood, no means must be used to stop them, unless they be so frequent as to weaken the patient. Loose stools often prove critical, and carry off the disease.

If an abscess or imposthume is formed in the liver, all methods should be tried to make it break and discharge itself outwardly, as fomentations, the application of poultices, ripening cataplasms, &c. Sometimes indeed the matter of an abscess comes away in the urine, and sometimes it is discharged by stool, but these are efforts of Nature which no means can promote. When the abscess bursts into the cavity of the *abdomen* at large, death must ensue; nor will the event be more favourable, when the abscess is opened by an incision, unless in cases where the liver adheres to the *peritonœum*, so as to form a bag for the matter, and prevent it from falling into the cavity of the *abdomen*; in which case opening the abscess by a sufficiently large incision will probably save the patient's life *.

If the disorder in spite of all endeavours to the contrary, should end in a scirrhus, the patient must be careful to regulate his diet, &c. in such a manner as not to aggravate the disease. He must not indulge in flesh, fish, strong liquors, or any highly seasoned or salted provisions; but should, for the most part, live on mild vegetables, as fruits and roots; taking gentle exercise, and drinking whey, barley water, or butter-milk. If he takes any thing stronger, it should be fine mild ale, which is less heating than wines or spirits.

We shall take no notice of inflammations of the other viscera. They must in general be treated upon the same principles as those already mentioned. The chief rule with respect to all of them, is to let blood, to avoid every thing that is strong, or of a heating nature, to apply warm fomentations to the part affected, and to cause the patient to drink a sufficient quantity of warm diluting liquors.

* I know a gentleman who has had several abscesses of the liver opened, and is now a strong and healthy man, though above eighty years of age.

CHAP. XXXI.

F THE CHOLERA MORBUS, AND OTHER EX-CESSIVE DISCHARGES FROM THE STOMACH AND BOWELS.

THE cholera morbus is a violent purging and vomiting, attended with gripes, sickness, and constant desire to to stool. It comes on suddenly, and is most common in tumn. There is hardly any disease that kills more quickthan this, when proper means are not used in due time 'removing it.

CAUSES.—It is occasioned by a redundancy and pud acrimony of the bile; cold, food that easily turns ranl or sour on the stomach; as butter, bacon, sweat-meats, cumbers, melons, cherries, and other cold fruits *. It sometimes the effect of strong acrid purges or vomits, or poisonous substances taken into the stomach. It may ewise proceed from violent passions or affections of the nd; as fear, anger, &c.

SYMPTOMS.—It is generally preceded by a cardialz, or heart-burn, sour belchings, and flatulencies, with in of the stomach and intestines. To these succeed excese vomiting, and purging of green, yellow, or blackish colred bile, with a distension of the stomach, and violent ping pains. There is likewise a great thirst, with a ry quick unequal pulse, and often a fixed acute pain out the region of the navel. As the disease advances, pulse often sinks so low as to become quite imperceple, the extremities grow cold, or cramped, and are often vered with a clammy sweat, the urine is obstructed, 1 there is a palpitation of the heart. Violent hiccuping, nting, and convulsions, are the signs of approaching ith.

MEDICINE.—At the beginning of this disease the orts of Nature to expel the offending cause should be isted, by promoting the purging and vomiting. For

* I have been twice brought to the gates of death by this disease, and h times it was occasioned by eating rancid bacon. this purpose the patient must drink freely of diluting liquors; as whey, butter-milk, warm water, thin watergruel, small posset, or, what is perhaps preferable to any of them, very weak chicken broth. This should not only be drunk plentifully to promote the vomiting, but a clyster of it given every hour in order to promote the purging.

After these evacuations have been continued for some time, a decoction of toasted oat-bread may be drunk to stop the vomiting. The bread should be toasted till it is of a brown colour, and afterwards boiled in spring water. If oat-bread cannot be had, wheat-bread, or oat-meal well toasted, may be used in its stead. If this does not put a stop to the vomiting, two table-spoonfuls of the saline julep, with ten drops of laudanum, may be taken every hour till it ceases.

The vomiting and purging however ought never to be stopped too soon. As long as these discharges do not weaken the patient, they are salutary, and may be allowed to go on, or rather ought to be promoted. But when the patient is weakened by the evacuations, which may be known from the sinking of his pulse, &c. recourse must immediately be had to opiates, as recommended above; to which may be added strong wines, with spirituous cinnamonwaters, and other generous cordials. Warm negus, or strong wine-whey, will likewise be necessary to support the patient's spirits, and promote the perspiration. His legs should be bathed in warm water, and afterwards rubbed with flannel cloths, or wrapped in warm blankets, and warm bricks applied to the soles of his feet. Flannels wrung out of warm spirituous fomentations should likewise be applied to the region of the stomach.

When the violence of the disease is over, to prevent a relapse, it will be necessary for some time to continue the use of small doses of laudanum. Ten or twelve drops may be taken in a glass of wine, at least twice a-day, for eight or ten days. The patient's food ought to be nourishing, but taken in small quantities, and he should use moderate exercise. As the stomach and intestines are generally much weakened, an infusion of the bark, or other bitters,

OF THE CHOLERA MORBUS, &c.

small wine, sharpened with the elixir of vitriol, may be ink for some time.

Though physicians are seldom called in due time in disease, they ought not to despair of relieving the pait even in the most desperate circumstances. Of this tely saw a very striking proof in an old man and his son, o had been both seized with it about the middle of the ht. I did not see them till next morning, when they much more the appearance of dead than of living men. pulse could be felt; the extremities were cold and d; the countenance was ghastly, and the strength alst quite exhausted. Yet from this deplorable condition y were both recovered by the use of opiates and cordial dicines.

OF A DIARRHEA, OR LOOSENESS.

A LOOSENESS, in many cases, is not to be considered as a case, but rather as a salutary evacuation. It ought theree never to be stopped, unless when it continues too long, evidently weakens the patient. As this, however, somees happens, we shall point out the common causes of a seness, with the proper method of treatment

When a looseness is occasioned by catching cold, or an tructed perspiration, the patient ought to keep warm, to ik freely of weak diluting liquors, to bathe his feet and frequently in luke-warm water, to wear fiannel next skin, and to take every other method to restore the perration.

n a looseness which proceeds from excess or repletion, omit is the proper medicine. Vomits not only cleanse stomach, but promote all the secretions, which renders n of great importance in carrying off a debauch. Half achm of ipecacuanha in powder will answer this purpose y well. A day or two after the vomit, the same quanof rhubarb may be taken, and repeated two or three es, if the looseness continues. The patient ought to upon light vegetable food, of easy digestion, and to ik whey, thin gruel, or barley-water.

1 looseness, occasioned by the obstruction of any custo-

mary evacuation, generally requires bleeding. If that does not succeed, other evacuations may be substituted in the room of those which are obstructed. At the same time, every method is to be taken to restore the usual discharges, as not only the cure of the disease, but the patient's life may depend on this.

A periodical looseness ought never to be stopped. It is always an effort of Nature to carry off some offending matter, which, if retained in the body, might have fatal effects. Children are very liable to this kind of looseness, especially while teething. It is however so far from being hurtful to them, that such children generally get their teeth with least trouble. If these loose stools should at any time prove sour or griping, a tea-spoonful of magnesia alba, with four or five grains of rhubarb, may be given to the child in a little panado, or any other food. This, if repeated three or four times, will generally correct the acidity, and carry off the griping stools.

A diarrhœa, or looseness, which proceeds from violent passions or affections of the mind, must be treated with the greatest caution. Vomits in this case are highly improper. Nor are purges safe, unless they be very mild, and given in small quantities. Opiates, and antispasmodic medicines, are most proper. Ten or twelve drops of liquid laudanum may be taken in a cup of valerian or penny-royal tea every eight or ten hours, till the symptoms abate. Ease, cheerfulness, and tranquillity of mind, are here of the greatest importance.

When a looseness proceeds from acrid or poisonous substances taken into the stomach, the patient must drink large quantities of diluting liquors, with oily or fat broths, to promote vomiting and purging. Afterwards, if there be reason to suspect that the bowels are inflamed, bleeding will be necessary. Small doses of laudanum may likewise be taken to remove their irritation.

When the gout, repelled from the extremities, occasions a looseness, it ought to be promoted by gentle doses of rhubarb, or other mild purgatives. The gouty matter is likewise to be solicited towards the extremities by warm fomentations, cataplasms, &c. The perspiration ought at the same time to be promoted by warm diluting liquors;

vine-whey, with spirits of hartshorn, or a few drops of id laudanum in it.

When a looseness proceeds from worms, which may be wn from the sliminess of the stools, mixed with pieces lecayed worms, &c. medicine must be given to kill and by off these vermin, as the powder of tin, with purges of barb and calomel. Afterwards lime-water, either alone, with a small quantity of rhubarb infused, will be proper trengthen the bowels, and prevent the new generation vorms.

looseness is often occasioned by drinking bad water.
en this is the case, the disease generally proves epidemical.
en there is reason to believe that this or any other disproceeds from the use of unwholesome water, it ought nediately to be changed, or, if that cannot be done, it
be corrected by mixing with it quick-lime, chalk, or like.

n people whose stomachs are weak, violent exercise nediately after eating will occasion a looseness. Though cure of this is obvious, yet it will be proper, besides ding violent exercise, to use such medicines as tend to ce and strengthen the stomach, as infusions of the bark, 1 other bitter and astringent ingredients, in white-wine. h persons ought likewise to take frequently a glass or of old red port, or good claret.

rom whatever cause a looseness proceeds, when it is id necessary to check it, the diet ought to consist of boiled with milk, and flavoured with cinnamon; rice-'; sago, with red port; and the lighter sorts of flesht roasted. The drink may be thin water-gruel, riceer, or weak broth made from lean veal, or with a sheep's 1, as being more gelatinous than mutton, beef, or chickproth.

ersons who, from a peculiar weakness, or too great rritability of the bowels, are liable to frequent returns this disease, should live temperately, avoiding crude mer fruits, all unwholesome food, and meats of hard estion. They ought likewise to beware of cold, mois-, or whatever may obstruct the perspiration, and ald wear flannel next their skin. All violent passions,

OF VOMITING.

as fear, anger, &c. are likewise carefully to be guarded against.

OF VOMITING.

VOMITING may proceed from various causes; as excess in eating and drinking; foulness of the stomach; the acrimony of the aliments; a translation of the morbific matter of ulcers, of the gout, the erysipelas, or other diseases, to the stomach. It may likewise proceed from a looseness having been too suddenly stopped; from the stoppage of any customary evacuation, as the bleeding piles, the *menses*, &c. from a weakness of the stomach, the colic, the iliac passion, a rupture, a fit of the gravel, worms; or from any kind of poison taken into the stomach. It is an usual symptom of injuries done to the brain; as contusions, compressions, &c. It is likewise a symptom of wounds or inflammations of the diaphragm, intestines, spleen, liver, kidneys, &c.

Vomiting may be occasioned by unusual motions; as sailing, being drawn backwards in a cart or coach, &c.— It may likewise be excited by violent passions, or by the idea of nauseous or disagreeable objects, especially of such things as have formerly produced vomiting. Sometimes it proceeds from a regurgitation of the bile into the stomach: in this case, what the patient vomits is generally of a yellow or greenish colour, and has a bitter taste. Persons who are subject to nervous affections are often suddenly seized with violent fits of vomiting. Lastly, vomiting is a common symptom of pregnancy In this case it generally comes on about two weeks after the stoppage of the menses, and continues during the first three or four months.

When vomiting proceeds from a foul stomach or indigestion, it is not to be considered as a disease, but as the cure of a disease. It ought therefore to be promoted by drinking lukewarm water, or thin-gruel. If this does not put a stop to the vomiting, a dose of ipecacuanha may be taken, and worked off with weak canomile tea.

When the retrocession of the gout, or the obstruction of customary evacuations, occasion vomiting, all means

ist be used to restore these discharges; or, if that cannot effected, their place must be supplied by others, as bleed-, purging, bathing the extremities in warm water, open-; issues, setons, perpetual blisters, &c.

When vomiting is the effect of pregnancy, it may genely be mitigated by bleeding, and keeping the body gentopen. The bleeding however, ought to be in small antities at a time, and the purgatives should be of the ldest kind, as figs, stewed prunes, manna, or senna .--egnant women are most apt to vomit in the morning, mediately after getting out of bed, which is owing partly the change of posture, but more to the emptiness of the mach. It may generally be prevented by taking a sh of coffee, tea, or some light breakfast in bed. Pregnt women who are afflicted with vomiting, ought to be pt easy both in body and mind. They should neither ow their stomachs to be quite empty, nor should they t much at once. Cold water is a very proper drink in is case; if the stomach be weak, a little brandy may be ded to it. If the spirits are low, and the person apt to int, a spoonful of cinnamon-water, with a little marmalade quinces or oranges, may be taken.

If vomiting proceeds from weakness of the stomach, bitrs will be of service. Peruvian bark infused in wine or andy, with as much rhubarb as will keep the body gently oen, is an excellent medicine in this case. The elixir of troil is also a good medicine. It may be taken in the use of fifteen or twenty drops, twice or thrice a-day, in a ass of wine or water. Habitual vomitings are sometimes leviated by making oysters a principal part of diet.

A vomiting, which proceeds from acidities in the stoach, is relieved by alkaline purges. The best medicine this kind is the magnesia alba; a tea-spoonful of which ay be taken in a dish of tea or a little milk, three or ur times a day, or oftener if necessary, to keep the body ben.

When vomiting proceeds from violent passions, or afctions of the mind, all evacuants must be carefully voided, especially vomits. These are exceedingly danerous. The patient in this case ought to be kept perctly casy and quiet, to have the mind soothed, and to take some gentle cordial, as negus, or a little brandy and water, to which a few drops of laudanum may occasionally be added.

When vomiting proceeds from spasmodic affections of the stomach, musk, castor, and other antispasmodic medicines, are of use. Warm and aromatic plasters have likewise a good effect. The stomach-plaster of the London or Edinburgh dispensatory may be applied to the pit of the stomach, or a plaster of *theriaca*, which will answer rather better. Aromatic medicines may likewise be taken inwardly, as cinnamon or mint-tea, wine with spiceries boiled in it, &c. The region of the stomach may be rubbed with æther, or, if that cannot be had, with strong brandy, or other spirits. The belly should be fomented with warm water, or the patient immersed up to the breast in a warm bath.

I have always found the saline draughts taken in the act of effervescence, of singular use in stopping a vomiting, from whatever cause it proceeded. These may be prepared by dissolving a drachm of the salt of tartar in an ounce and half of fresh lemon-juice, and adding to it an ounce of pepper-mint water, the same quantity of simple cinnamonwater, and a little white sugar. This draught must be swallowed before the effervescence is quite over, and may be repeated every two hours, or oftener, if the vomiting be violent. A violent vomiting has sometimes been stopped by cupping on the region of the stomach after all other means had failed.

As the least motion will often bring on the vomiting again, even after it has been stopped, the patient must avoid all manner of action. The diet must be so regulated as to sit easy upon the stomach, and nothing should be taken that is hard of digestion. We do not however mean that the patient should live entirely upon slops. Solid food, in this case, often sits easier on the stomach than liquids.

OF A DIABETES, &c.

CHAP. XXXII.

THE DIABETES, AND OTHER DISORDERS OF THE KIDNEYS AND BLADDER.

HE diabetes is a frequent and excessive discharge of urine. It is seldom to be met with among young ople; but often attacks persons in the decline of life, escially those who follow the more violent employments, have been hard drinkers in their youth.

CAUSES .- A diabetes is often the consequence of ae diseases, as fevers, fluxes, &c. where the patient has Fered by excessive evacuations; it may also be occasionby great fatigue, as riding long journies upon a hard-Itting horse, carrying heavy burdens, running, &c. It y be brought on by hard drinking, or the use of strong mulating diuretic medicines, as tincture of cantharides, rits of turpentine, and such like. It is often the effect drinking too great quantities of mineral waters. Many agine that these will do them no service unless they be mnk in great quantities, by which mistake it often hapins that they occasion worse diseases than those they were ended to cure. In a word, this disease may either prod from too great a laxity of the organs which secrete urine, from something that stimulates the kidneys too ech, or from a thin dissolved state of the blood, which kes too great a quantity of it run off by the urinary pases.

SYMPTOMS.—In a diabetes, the urine generally exds in quantity all the liquid food which the patient takes. is thin and pale, of a sweetish taste, and an agreeable ell. The patient has a continual thirst, with some dee of fever; his mouth is dry, and he spits frequently othy spittle. The strength fails, the appetite decays, the flesh wastes away till the patient is reduced to skin bone. There is a heat of the bowels; and frequentthe loins, testicles, and feet are swelled.

This disease may generally be cured at the beginning; after it has continued long, the cure becomes very difficult. In drunkards, and very old people, a perfect cure is not to be expected.

REGIMEN.—Every thing that stimulates the urinary passages, or tends to relax the habit, must be avoided. For this reason the patient should live chiefly on solid food. His thirst may be quenched with acids; as sorrel, juice of lemon, or vinegar. The mucilaginous vegetables, as rice, sago, and salop, with milk, are the most proper food. Of animal substances, shell-fish are to be preferred; as oysters, crabs, &c.

The drink may be Bristol-water. When that cannot be obtained, lime-water, in which a due proportion of oakbark has been macerated, may be used. The white decoction *, with isinglass dissolved in it, is likewise a very proper drink.

The patient ought daily to take exercise, but it should be so gentle as not to fatigue him. He should lie upon a hard bed or matrass. Nothing hurts the kidneys more than lying too soft. A warm dry air, the use of the fleshbrush, and every thing that promotes perspiration, is of service. For this reason the patient ought to wear flannel next his skin. A large strengthening plaster may be applied to the back; or, what will answer better, a great part of the body may be wrapt in plaster.

MEDICINE.—Gentle purges, if the patient be not too much weakened by the disease, have a good effect. They may consist of rhubarb, with cardamum seeds, or any other spiceries, infused in wine, and may be taken in such quantities as to keep the body gently open.

The patient must next have recourse to astringents and corroborants. Half a drachm of powder made of equal parts of allum and the inspissated juice commonly called *Terra Japonica*, may be taken four times a-day, or oftener, if the stomach will bear it. The allum must first be melted in a crucible; afterwards they may both be pounded together. Along with every dose of this powder the patient may take a tea-cupful of the tincture of roses \dagger .

If the patient's stomach cannot bear the allum in sub-

- * See Appendix, White Decoction.
- + See Appendix, Tincture of Roses.

mce, whey may be made of it, and taken in the dose of eea-cupful three or four times a day. The allum-whey is epared by boiling two English quarts of milk over a slow with three drachms of allum, till the curd separates.

Opiates are of service in this disease, even though the tient rests well. They take off spasm and irritation, and the same time lessen the force of the circulation. Ten or elve drops of liquid laudanum may be taken in a cup of patient's drink three or four times a day.

The best corroborants which we know, are the Peruvian is and wine. A drachm of bark may be taken in a ass of red port or claret three times a day. The medicine I be both more efficacious and less disagreeable, if fifin or twenty drops of the acid elixir of vitriol be added teach dose. Such as cannot take the bark in substance y use the decoction, mixed with an equal quantity of I wine, and sharpened as above.

There is a disease incident to labouring people in the denae of life, called an INCONTINENCY of urine. But is is very different from a diabetes, as the water passes off voluntarily by drops, and does not exceed the usual quanv. This disease is rather troublesome than dangerous. is owing to a relaxation of the sphincter of the bladder, dl is often the effect of a palsy. Sometimes it proceeds in hurts, or injuries occasioned by blows, bruises, preternural labours, &c. Sometimes it is the effect of a fever. may likewise be occasioned by a long use of strong dipetics, or of stimulating medicines injected into the blad-

This disease may be mitigated by the use of astringent I corroborating medicines, such as have been mentioned ove; but we do not remember ever to have seen it cured. In an incontinency of urine, from whatever cause, a ce of sponge ought to be worn, or a bladder applied in the a manner as to prevent the urine from galling and coriating the parts.

OF A SUPPRESSION OF URINE.

It has already been observed, that a suppression of urine may proceed from various causes; as an inflammation of the kidneys, or bladder; small stones or gravel lodging in the urinary passages, hard *jæces* lying in the *rectum*, pregnancy, a spasm or contraction of the neck of the bladder, clotted blood in the bladder itself, a swelling of the hæmorrhoidal veins, \mathfrak{Ge} .

Some of these cases require the catheter, both to remove the obstructing matter, and to draw off the urine; but as this instrument can only be managed with safety by persons skilled in surgery, we shall say nothing further of its use. A bougee may be used by any cautious hand, and will often succeed better than the catheter.

We would chiefly recommend, in all obstructions of urine, fomentations and evacuants. Bleeding, as far as the patient's strength will permit, is necessary, especially where there are symptoms of topical inflammation. Bleeding in this case not only abates the fever, by lessening the force of the circulation, but, by relaxing the solids, it takes off the spasm or stricture upon the vessels, which occasioned the obstruction.

After bleeding, fomentations must be used. These may either consist of warm water alone, or of decoctions of mild vegetables; as mallows, camomile flowers, &c. Cloths dipped in these may either be applied to the part affected, or a large bladder filled with the decoction may be kept continually upon it. Some put the herbs themselves into a flannel bag, and apply them to the part, which is far from being a bad method. These continue longer warm than cloths dipped in the decoction, and at the same time keep the part equally moist.

In all obstructions of urine, the body ought to be kept open. This is not however to be attempted by strong purgatives, but by emollient clysters, or gentle infusions of senna and manna. Clysters in this case not only open the body, but answer the purpose of an internal fomentation, and greatly assist in removing the spasms of the bladder and parts adjacent.

The food must be light, and taken in small quantities.

e drink may be weak broth, or decoctions and infusions mucilaginous vegetables, as marsh-mallow roots, lime e buds, &c. A tea-spoonful of the sweet spirits of nitre a drachm of Castile soap, may be frequently put into the ient's drink; and, if there be no inflammation, he may mk small gin punch.

Persons subject to a suppression of urine ought to live y temperate. Their diet should be light, and their lior diluting. They should avoid all acids and austere nes, should take sufficient exercise, lie hard, and avoid dy and sedentary occupations.

OF THE GRAVEL AND STONE.

WHEN small stones are lodged in the kidneys, or disarged along with the urine, the patient is said to be afeted with the gravel If one of these stones happens to take a lodgment in the bladder for some time, it accutates fresh matter, and at length becomes too large to ss off with the urine. In this case the patient is said to we the stone.

CAUSES.—The stone and gravel may be occasioned by 55 hiving; the use of strong astringent wines; a sedeny life; lying too hot, soft, or too much on the back; constant use of water impregnated with earthy or stony reticles; aliments of an astringent or windy nature, &c. may likewise proceed from an hereditary disposition. resons in the decline of life, and those who have been uch afflicted with the gout or rheumatism, are most liable it.

SYMPTOMS.—Small stones or gravel in the kidneys casion pain in the loins; sickness; vomiting; and somenes bloody urine. When the stone descends into the eter, and is too large to pass along with ease, all the ave symptoms are increased; the pain extends towards e bladder; the thigh and leg of the affected side are beimbed; the testicles are drawn upwards, and the urine is ostructed.

A stone in the bladder is known from a pain, at the me, as well as before and after making water; from the rine coming away by drops, or stopping suddenly when it was running in a full stream; by a violent pain in the neck of the bladder upon motion, especially on horseback, or in a carriage on a rough road; from a white, thick, copious, stink, ing, mucous sediment in the urine; from an itching in the top of the *penis*; from bloody urine; from an inclination to go to stool during the discharge of urine; from the patient's passing his urine more easily when lying than in an erect posture; from a kind of convulsive motion occasioned by the sharp pain in discharging the last drops of the urine; and lastly, from sounding or searching with the catheter.

REGIMEN.—Persons afflicted with the gravel or stone should avoid aliments of a windy or heating nature, as salt meats, sour fruits, $\Im c$. Their diet ought chiefly to consist of such things as tend to promote the secretion of urine, and to keep the body open. Artichokes, asparagus, spinnage, lettus, parsley, succory, purslane, turnips, potatoes, carrots, and radishes, may be safely eaten. Onions, leeks, and cellary are, in this case, reckoned medicinal. The most proper drinks are whey, butter-milk, milk and water, barley water; decoctions or infusions of the roots of marsh-mallows, parsley, liquorice, or of other mild mucilaginous vegetables, as linseed, lime-tree buds or leaves, $\Im c$. If the patient has been accustomed to generous liquors, he may drink small gin punch.

Gentle exercise is proper; but violent motion is apt to occasion bloody urine. We would therefore advise that it should be taken in moderation. Persons afflicted with the gravel often pass a great number of stones after riding on horseback, or in a carriage; but those who have a stone in the bladder are seldom able to bear these kinds of exercise. Where there is a hereditary tendency to this disease, a sedentary life ought never to be indulged. Were people careful upon the symptoms of gravel, to observe a proper regimen of diet, and to take sufficient exercise, it might often be carried off, or at least prevented from increasing; but if the same course which occasioned the disease, is persisted in, it must be aggravated.

MEDICINE.—In what is called a fit of the gravel, which is commonly occasioned by a stone sticking in the ureter or some part of the urinary passages, the patient ist be bled, warm fomentations should likewise be apred to the part affected, emollient clysters must be adinistered, and diluting mucilaginous liquors drunk, $\Im c$. The treatment of this case has been fully pointed out untr the articles, *inflammation of the kidneys and bladder*, which we refer.

Dr Whyte advises patients who are subject to frequent of gravel in the kidneys, but have no stone in the adder, to drink every morning two or three hours bebreakfast, an English pint of oyster or cockle-shell me water. The doctor very justly observes, that though s quantity might be too small to have any sensible effect dissolving a stone in the bladder, yet it may very probly prevent its growth.

When a stone is formed in the bladder, the Doctor remmends Alicant soap, and oyster or cockle-shell limeinter, * to be taken in the following manner: The patient ist swallow every day, in any form that is least disagreede, an ounce of the internal part of Alicant soap, and ink three or four English pints of oyster or cockle shell me-water. The soap is to be divided into three doses; e largest to be taken fasting in the morning early; the cond at noom; and the third at seven in the evening: inking above each dose a large draught of the lime-water; remainder of which he may take any time betwixt dintr and supper, instead of other liquors.

The patient should begin with a smaller quantity of the me-water and soap than that mentioned above; at first English pint of the former, and three drachms of the ter, may be taken daily. This quantity, however, he is increase by degrees, and ought to persevere in the of these medicines, especially if he finds any abateent of his complaints, for several months; nay, if the me be very large, for years. It may likewise be prorr for the patient, if he be severely pained, not only begin with the soap and lime water in small quantities, it to take the second or third lime water instead of the st. However, after he has been for some time acstomed to these medicines, he may take not only e first water, but, if he finds he can easily bear it,

* See Appendix, Lime Water.

OF THE GRAVEL AND THE STONE.

294

heighten its dissolving power still more by pouring it a second time on fresh calcined shells.

The caustic alkali, or soap lees, is the medicine chiefly in vogue at present for the stone. It is of a very acrid nature, and ought therefore to be given in some gelatinous or mucilaginous liquor; as veal broth, new milk, linseed tea, a solution of gum-arabic, or a decoction of marshmallow roots. The patient must begin with small doses of the lees, as thirty or forty drops, and increase by degrees, as far as the stomach can bear it. *

Though the soap-lees and lime water are the most powerful medicines which have hitherto been discovered for the stone; yet there are some things of a more simple nature, which, in certain cases, are found to be beneficial, and therefore deserve a trial. An infusion of the seeds of *daucus sylvestris*, or wild carrot, sweetened with honey, has been found to give considerable ease in cases where the stomach could not bear any thing of an acrid nature. A decoction of raw coffee berries taken morning and evening, to the quantity of eight or ten ounces, with ten drops of sweet spirit of nitre, has likewise been found very efficacious in bringing away large quantities of earthy matter in flakes. Honey is likewise found to be of considerable service, and may be taken in gruel, or in any other form that is more agreeable.

The only other medicine which we shall mention is the *uva ursi*. It has been greatly extolled of late both for the gravel and the stone. It seems however to be in all respects inferior to the soap and lime-water; but it is less disagree-able, and has frequently, to my knowledge, relieved gravelly complaints. It is generally taken in powder from half a drachm to a whole drachm, two or three times a day. It may however be taken to the quantity of seven or eight drachms a-day, with great safety and good effect.

* The caustic alkali may be prepared by mixing two parts of quicklime with one of pot-ashes, and suffering them to stand till the lixivium be formed, which must be carefully filtrated before it be used. If the solution does not happen readily, a small quantity of water may be added to the mixture.

su her hed he

INVOLUNTARY DISCHARGES, &c.

CHAP. XXXIII.

T INVOLUNTARY DISCHARGES OF BLOOD.

PONTANEOUS, or involuntary discharges of blood, often happen from various parts of the body. These, rever, are so far from being always dangerous, that they m prove salutary. When such discharges are critical, ch is frequently the case in fevers, they ought not to topped. Nor indeed is it proper at any time to stop m, unless they be so great as to endanger the patient's Most people, afraid of the smallest discharge of the of from any part of the body, fly immediately to the of styptic and astringent medicines, by which means inflammation of the brain, or some other fatal disease, ccasioned, which, had the discharge been allowed to go might have been prevented.

eeriodical discharges of blood, from whatever part of body they proceed, must not be stopped. They are ys the efforts of Nature to relieve herself; and fatal uses have often been the consequence of obstructing n. It may indeed be sometimes necessary to check violence of such discharges; but even this requires greatest caution. Instances might be given, where the poing of a small periodical flux of blood from one of ingers, has proved fatal.

the early period of life, bleeding at the nose is very mon. Those who are farther advanced in years are liable to hæmoptoe, or discharge of blood from the s. After the middle period of life, hæmorrhoidal fluxte most common; and in the decline of life, discharges cood from the urinary passages.

voluntary fluxes of blood may proceed from very cent, and often from quite opposite causes. Somes they are owing to a particular construction of the , as a sanguine temperament, a laxity of the vessels, ethoric habit, &c. At other times they proceed from cermination of the blood towards one particular part, ne head, the hæmorrhoidal veins, &c. They may

INVOLUNTARY DISCHARGES.

likewise proceed from an inflammatory disposition of the blood, in which case there is generally some degree of fever: this likewise happens when the flux is occasioned by an obstructed perspiration, or a stricture upon the skin, the bowels, or any particular part of the system.

But a dissolved state of the blood will likewise occasion hæmorrhages. Thus, in putrid fevers, the dysentary, the scurvy, the malignant small-pox, &c. there are often very great discharges of blood from different parts of the body. They may likewise be brought on by too liberal an use of medicines which tend to dissolve the blood, as cantharides, the volatile alkaline salts, &c. Food of an acrid or irritating quality may likewise occasion hæmorrhages; as also strong purges and vomits, or any thing that greatly stimulates the bowels.

Violent passions or agitations of the mind will likewise have this effect. These often cause bleeding at the nose, and I have known them sometimes occasion an hæmorrhage in the brain. Violent efforts of the body, by overstraining or hurting the vessels, may have the same effect, especially when the body is long kept in an unnatural posture, as hanging the head very low, &c.

The cure of an hæmorrhage must be adapted to its cause. When it proceeds from too much blood, or a tendency to inflammation, bleeding, with gentle purges, and other evacuations, will be necessary. It will likewise be proper for the patient in this case to live chiefly upon a vegetable diet, to avoid all strong liquors, and food that is of an acrid, hot, or stimulating quality. The body should be kept cool, and the mind easy.

When an hæmorrhage is owing to a putrid or dissolved state of the blood, the patient ought to live chiefly upon acid fruits with milk, and vegetables of a nourishing nature, as sago, salap, & c. His drink may be wine diluted with water, and sharpened with the juice of lemon, vinegar, or spirits of vitriol. The best medicine in this case is the Peruvian bark, which may be taken according to the urgency of the symptoms.

When a flux of blood is the effect of acrid food, or of strong stimulating medicines, the cure is to be effected by soft and mucilaginous diet. The patient may likewise take

quently about the bulk of a nutmeg of Locatelli's balsam, the same quantity of sperma-ceti.

When an obstructed perspiration, or a stricture upon part of the system, is the cause of an hæmorrhage, may be removed by drinking warm diluting liquors, ug a-bed, bathing the extremities in warm water, &c.

OF BLEEDING AT THE NOSE.

BLEEDING at the nose is commonly preceded by some tree of quickness of the pulse, flushing in the , pulsation of the temporal arteries, heaviness in the d, dimness of the sight, heat and itching of the nos-, &c.

To persons who abound with blood this discharge is y salutary. It often cures a vertigo, the head-ach, a enzy, and even an epilepsy. In fevers, where there great determination of blood towards the head, it is the utmost service. It is likewise beneficial in inflamtions of the liver and spleen, and often in the gout and umatism. In all diseases where bleeding is necessary, pontaneous discharge of blood from the nose is of much the service than the same quantity let with a lancet.

nn a discharge of blood from the nose, the great point o) determine whether it ought to be stopped or not. is a common practice to stop the bleeding, without contring whether it be a disease, or the cure of a disease. is conduct proceeds from fear; but it has often bad, sometimes fatal consequences.

When a discharge of blood from the nose happens in inflammatory disease, there is always reason to believe it may prove salutary; and therefore it should be ered to go on, at least as long as the patient is not kened by it.

When it happens to persons in perfect health, who are of blood, it ought not to be suddenly stopped, espely if the symptoms of plethora, mentioned above, e preceded it. In this case it cannot be stopped withrisking the patient's life.

n fine, whenever bleeding at the nose relieves any bad nptom, and does not proceed so far as to endanger the

Pp.

patient's life, it ought not to be stopped. But when it returns frequently, or continues till the pulse becomes low, the extremities begin to grow cold, the lips pale, or the patient complains of being sick or faint, it must immediately be stopped.

For this purpose the patient should be set nearly upright, with his head reclining a little, and his legs immersed in water about the warmth of new milk. His hands ought likewise to be put in lukewarm water, and his garters may be tied a little tighter than usual. Ligatures may be applied to the arms about the place where they are usually made for bleeding, and with nearly the same degree of tightness. These must be gradually slackened as the blood begins to stop, and removed entirely as soon as it gives over.

Sometimes dry lint put up the nostrils will stop the bleeding. When this does not succeed, dossils of lint dipped in strong spirits of wine, may be put up the nostrils or if that cannot be had, they may be dipped in brandy Blue vitriol dissolved in water may likewise be used for this purpose, or a tent dipped in the white of an egg wel beat up, may be rolled in a powder made of equal parts of white sugar, burnt allum, and white vitriol, and pu up the nostril from whence the blood issues.

Internal medicines can hardly be of use here, as they have seldom time to operate. It may not however be a miss to give the patient half an ounce of Glauber's salt and the same quantity of manna, dissolved in four or fiv ounces of barley-water. This may be taken at a draugh and repeated, if it does not operate in a few hours. Te or twelve grains of nitre may be taken in a glass of colo water and vinegar every hour, or oftener, if the stomaci will bear it. If a stronger medicine be necessary, a tea cupful of the tincture of roses, with twenty or thirty drop of the weak spirit of vitriol, may be taken every hour When these things cannot be had, the patient may drinl water, with a little common salt in it, or equal parts of water and vinegar.

If the genitals be immersed for some time in cold water it will generally stop a bleeding at the nose. I have no known this fail.

OF BLEEDING AT THE NOSE.

Sometimes, when the bleeding is stopped outwardly, it ntinues inwardly. This is very troublesome, and reires particular attention, as the patient is apt to be sufated with the blood, especially if he falls asleep, which is very ready to do after loosing a great quantity of ood.

When the patient is in danger of suffocation from the ood getting into his throat, the passages may be stopped drawing threads up the nostrils, and bringing them out the mouth, then fastening pieces of spunge, or small rolls linen cloth to their extremities; afterwards drawing em back, and tying them on the outside with a sufficient gree of tightness.

After the bleeding is stopped, the patient ought to be pt as easy and quiet as possible. He should not pick nose, nor take away the tents or clotted blood, till they 1 off of their own accord, and should not lie with his ad low.

Those who are affected with frequent bleeding at the sse, ought to bathe their feet often in warm water, and to eep them warm and dry. They ought to wear nothing tht about their necks, to keep their body as much in an ect posture as possible, and never to view any object obuely. If they have too much blood, a vegetable diet, th now and then a cooling purge, is the safest way to ssen it.

But when the disease proceeds from a thin dissolved te of the blood, the diet should be rich and nourishing; strong broths and jellies, sago-gruel with wine and sur, &c. Infusions of the Peruvian bark in wine ought tewise to be taken and persisted in for a considerable ine.

OF THE BLEEDING AND BLIND PILES.

A DISCHARGE of blood from the hæmorrhoidal vessels is lled the *bleeding piles*. When the vessels only swell, and scharge no blood, but are exceeding painful, the disease called the *blind piles*.

Persons of a loose spungy fibre, of a bulky size, who we high, and lead a sedentary inactive life, are most subject to this disease. It is often owing to a hereditary disposition. Where this is the case, it attacks persons more early in life than when it is accidental. Men are more liable to it than women, especially those of a sanguine, plethoric, or a scorbutic habit, or of a melancholy disposition.

The piles may be occasioned by an excess of blood, by strong aloetic purges, high-seasoned food, drinking great quantities of sweet wines, the neglect of bleeding, or other customary evacuations, much riding, great costiveness, or any thing that occasions hard or difficult stools. Anger, grief, or other violent passions, will likewise occasion the piles. I have often known them brought on by sitting on the damp ground. A pair of thin breeches will excite the disorder in a person who is subject to it, and sometimes even in those who never had it before. Pregnant women are often afflicted with the piles.

A flux of blood from the *anus* is not always to be treated as a disease. It is even more salutary than bleeding at the nose, and often prevents or carries off diseases. It is peculiarly beneficial in the gout, rheumatism, asthma, and hypochondriacal complaints, and often proves critical in colics, and inflammatory fevers.

In the management of the patient, regard must be had to his habit of body, his age, strength, and manner of living. A discharge which might be excessive and prove hurtful to one, may be very moderate, and even salutary to another. That only is to be esteemed dangerous, which continues too long, and is in such quantity as to waste the patient's strength, hurt the digestion, nutrition, and other functions necessary to life.

When this is the case, the discharge must be checked by a proper regimen, and astringent medicines. The DIET must be cool but nourishing, consisting chiefly of bread, milk, cooling vegetables and broths. The drink may be chalybeate water, orange-whey, decoctions or infusions of the astringent and mucilaginous plants, as the tormentil root, bistort, the marshmallow-roots, &c.

Old conserve of red roses is a very good medicine in this case. It may be mixed with new milk, and taken in the quantity of an ounce three or four times a-day. This

BLEEDING AND BLIND PHLES.

dicine is in no great repute, owing to its being seldom en in such quantity, as to produce any effects; but en taken as here directed and duly persisted in, I have own it perform very extraordinary cures in violent hærrhages, especially when assisted by the tincture of es; a tea-cupful of which may be taken about an hour er every dose of the conserve.

The Peruvian bark is likewise proper in this case, both a strengthener and astringent. Half a drachm of it may taken in a glass of red-wine, sharpened with a few drops the elixir of vitriol, three or four times a-day.

The bleeding piles are sometimes periodical, and return ularly once a-month, or once in three weeks. In this e they are always to be considered as a salutary discharge, by no means to be stopped. Some have entirely ruld their health by stopping a periodical discharge of od from the hæmorrhoidal veins.

In the blind piles bleeding is generally of use. The dimust be light and thin, and the drink cool and dilut-. It is likewise necessary that the body be kept gentopen. This may be done by small doses of the flowers porimstone and cream of tartar. These may be mixed equal quantities, and a tea-spoonful taken two or three ees a-day, or oftener if necessary. Or an ounce of the wers of brimstone and half an ounce of purified nitre by be mixed with three or four ounces of the lenitive etuary, and a tea-spoonful of it taken three or four times and a tea-spoonful of it taken three or four times and a tea-spoonful of it taken three or four times

Emollient clysters are here likewise beneficial; but re is sometimes such an astriction of the anus, that they not be thrown up. In this case I have known avomit re a very good effect.

When the piles are exceeding painful and swelled, but tharge nothing, the patient must sit over the steams of m water. He may likewise apply a linen cloth dipped warm spirits of wine to the part, or poultices made of ad and milk, or of leeks fried with butter. If these not produce a discharge, and the piles appear large, thes must be applied as near them as possible, or, if y will fix upon the piles themselves, so much the bet-When leeches will not fix, the piles may be opened with a lancet. The operation is very easy, and is attend, ed with no danger.

Various ointments, and other external applications, are recommended in the piles; but I do not remember to have seen any effects from these worth mentioning. Their principal use is to keep the part moist, which may be done as well by a soft poultice, or an emollient cataplasm. When the pain however is very great, a liniment made of two ounces of emollient ointment, and half an ounce of liquid laudanum, beat up with the yolk of an egg, may be applied.

SPITTING OF BLOUD.

WE mean here to treat of that discharge of blood from the lungs only which is called an *hæmoptoe*, or *spitting of blood*. Persons of a slender make, and a lax fibre, who have long necks and strait breasts, are most liable to this disease. It is most common in the spring, and generally attacks people before they arrive at the prime or middle period of life. It is a common observation, that those who have been subject to bleeding at the nose when young are afterwards most liable to an hæmoptoe.

CAUSES.—An hæmoptoe may proceed from excess o blood, from a peculiar weakness of the lungs, or a bad conformation of the breast. It is often occasioned by excessive drinking, running, wrestling, singing, or speaking aloud. Such as have weak lungs ought to avoid all vielent exertions of that organ, as they value life. They should likewise guard against violent passions, excessive drinking, and every thing that occasions a rapid circulation of the blood.

This disease may likewise proceed from wounds of the lungs. These may either be received from without, or they may be occasioned by hard bodies getting into the wind-pipe, and so falling down upon the lungs, and huring that tender organ. The obstruction of any customary evacuation may occasion a spitting of blood; as neglect of bleeding or purging at the usual seasons, the stoppage of the bleeding piles in men, or the menses in women, &c. It may likewise proceed from a polypus, schirrhous con-

SPITTING OF BLOOD.

ions, or any thing that obstructs the circulation of the od in the lungs. It is often the effect of a long and ent cough; in which case it is generally the fore-runof a consumption. A violent degree of cold suddenly lied to the external parts of the body will occasion an noptoe. It may likewise be occasioned by breathing which is too much rarified to be able properly to exl the lungs. This is often the case with those who k in hot places, as furnaces, glass-houses, or the like. likewise said to happen to such as ascend to the top tery high mountains, as the Peak of Teneriff, &c.

pitting of blood is not always to be considered as a priy disease. It is often only a symptom, and in some disss not an unfavourable one. This is the case in pleuss, peripneumonies, and sundry other fevers. In a dropscurvy, or consumption, it is a bad symptom, and shews the lungs are ulcerated.

YMPTOMS .- Spitting of blood is generally precedby a sense of weight, and oppression of the breast, a tickling cough, hoarseness, and a difficulty of breath-Sometimes it is ushered in with shivering, coldness the extremities, costiveness, great lassitude, flatulence, of the back and loins, &c. As these shew a general tture upon the vessels, and a tendency of the blood to mmation, they are commonly the forerunners of a copious discharge. The above symptoms do not ata discharge of blood from the gums or fauces, by h means these may always be distinguished from an noptoe. Sometimes the blood that is spit up is thin, of a florid red colour; and at other times it is thick, of a dark or blackish colour; nothing however can be red from this circumstance, but that the blood has a longer or shorter time in the breast before it was disged.

bitting of blood, in a strong healthy person, of a d constitution, is not very dangerous; but when it eks the tender and delicate, or persons of a weak lax i, it is with difficulty removed. When it proceeds a schirrhus or polypus of the lungs, it is bad. The ger is greater, when the discharge proceeds from the rupture of a large vessel than of a small one. When the extravasated blood is not spit up, but lodges in the breast, it corrupts, and greatly increases the danger. When the blood proceeds from an ulcer in the lungs, it is generally fatal.

REGIMEN.—The patient ought to be kept cool and easy. Every thing that heats the body or quickens the circulation, increases the danger. The mind ought likewise to be soothed, and every occasion of exciting the passions avoided. The diet should be soft, cooling, and slender; as rice boiled with milk, small broths, barley-gruels, panado, &c. The diet, in this case, can scarce be too low. Even water-gruel, is sufficient to support the patient for some days. All strong liquors must be avoided. The patient may drink milk and water, barley-water, whey, butter-milk, and such like. Every thing however should be drunk cold, and in small quantities at a time. He should observe the strictest silence, or at least speak with a very low voice.

MEDICINE.—This, like the other involuntary discharges of blood, ought not to be suddenly stopped by astringent medicines. More mischief is often done by these than if it were suffered to go on. It may however proceed so far as to weaken the patient, and even endanger his life; in which case proper means must be used for restraining it.

The body should be kept gently open by laxative diet; as roasted apples, stewed prunes, and such like. If these should not have the desired effect, a tea-spoonful of the lenitive electuary may be taken twice or thrice a-day, as is found necessary. If the bleeding proves violent, ligatures may be applied to the extremities, as directed for a bleeding at the nose.

If the patient be hot or feverish, bleeding and small doses of nitre will be of use; a scruple or half a drachm of nitre may be taken in a cup of his ordinary drink twice or thrice a-day. His drink may likewise be sharpened with acids, as juice of lemon, or a few drops of the spirit of vitriol; or he may take frequently a cup of the tincture of roses.

Bathing the feet and legs in lukewarm water has like

VOMITING OF BLOOD.

a very good effect in this disease. Opiates too are etimes beneficial; but these must be administered a caution. Ten or twelve drops of laudanum may be in in a cup of barley water twice a day, and continued some time, provided they be found beneficial.

he conserve of roses is likewise a very good medicine nis case, provided it be taken in sufficient quantity, and enough persisted in. It may be taken to the quantiof three or four ounces a-day; and, if the patient be bled with a cough, it should be made into an elecy with balsamic syrup, and a little of the syrup of pies.

stronger astringents be necessary, fifteen or twenty is of the elixir of vitriol may be given in a glass vater three or four times a-day.

hose who are subject to frequent returns of this disease Id avoid all excess. Their diet should be light and consisting chiefly of milk and vegetables. Above det them beware of vigorous efforts of the body, and nt agitations of the mind.

VOMITING OF BLOOD.

HIS is not so common as the other discharges of I which have already been mentioned; but it is very cerous, and requires particular attention.

pomiting of blood is generally preceded by pain of the mach, sickness and nausea; and is accompanied with anxiety, and frequent fainting fits.

his disease is sometimes periodical; in which case it as dangerous. It often proceeds from an obstruction be menses in women; and sometimes from the stopof the hæmorrhoidal flux in men. It may be occald by any thing that greatly stimulates or wounds the ach, as strong vomits or purges, acrid poisons, sharp ard substances taken into the stomach, &c. It is often ffect of obstructions in the liver, the spleen, or some ne other viscera. It may likewise proceed from exterviolence, as blows or bruises, or from any of the es which produce inflammation. In hysteric women, vomiting of blood is a very common, but by no means a dangerous symptom.

A great part of the danger in this disease arises from the extravasated blood lodging in the bowels, and becoming putrid, by which means a dysentery or putrid fever may be occasioned. The best way of preventing this, is to keep the body gently open, by frequently exhibiting emollient clysters. Purges must not be given till the discharge is stopt, otherwise they will irritate the stomach. and increase the disorder. All the food and drink must be of a mild cooling nature, and taken in small quantities. Even drinking cold water has sometimes proved a remedy, but it will succeed better when sharpened with the weak spirits of vitriol. When there are signs of an inflammation, bleeding may be necessary; but the patient's weakness will seldom permit it. Opiates may be of use; but they must be given in very small doses, as four or five drops of liquid laudanum twice or thrice a-day.

After the discharge is over, the patient is generally troubled with gripes, occasioned by the acrimony of the blood lodged in the intestines, gentle purges will be necessary.

OF BLOODY URINE.

THIS is a discharge of blood from the vessels of the kidneys or bladder, occasioned by their being either enlarged, broken, or eroded. It is more or less dangerous according to the different circumstances which attend it.

When pure blood is voided suddenly without interruption and without pain, it proceeds from the kidneys; but if the blood be in small quantity, of a dark colour, and emitted with heat and pain about the bottom of the belly, it proceeds from the bladder. When bloody urine is occasioned by a rough stone descending from the kidneys to the bladder, which wounds the *ureters*, it is attended with a sharp pain in the back, and difficulty of making water. If the coats of the bladder are hurt by a stone, and the bloody urine follows, it is attended with the most acute pain, and a previous stoppage of urine. Bloody urine may likewise be occasioned by falls,

OF BLOODY URINE.

vs, the lifting or carrying of heavy burdens, hard ridor any violent motion. It may also proceed from rs of the bladder, from a stone lodged in the kidneys, com violent purges, or sharp diuretic medicines, especicantharides.

loody urine is always attended with some degree of ger: but it is peculiarly so when mixed with purulent ter, as this shews an ulcer somewhere in the urinary ages. Sometimes this discharge proceeds from excess lood, in which case it is rather to be considered as a tary evacuation than a disease. If the discharge howbe very great, it may waste the patient's strength, occasion an ill habit of body, a dropsy, or a conption.

to the different causes from which it proceeds.

Vhen it is owing to a stone in the bladder, the cure ends upon an operation; a description of which would poreign to our purpose.

it be attended with a plethora, and symptoms of inmation, bleeding will be necessary. The body must wise be kept open by emollient clysters, or cooling gative medicines; as cream of tartar, rhubarb, manna, mall doses of lenitive electuary.

Then bloody urine proceeds from a dissolved state of blood, it is commonly the symptom of some maligdisease; as the small pox, a putrid fever, or the In this case the patient's life depends on the liberal of the Peruvian bark and acids, as has already been vn.

Then there is reason to suspect an ulcer in the kidneys adder, the patient's diet must be cool, and his drink soft, healing, balsamic quality, as decoctions of th-mallow roots, with liquorice, solutions of gum ara-&c. Three ounces of marsh mallow roots, and half unce of liquorice, may be boiled in two English quarts vater to one; two ounces of gum-arabic, and half an the of purified nitre, may be dissolved in the strained or, and a tea-cupful of it taken four or five times a-

he early use of astringents in this disease has often

bad consequences. When the flux is stopped too soon, the grumous blood, by being confined in the vessels, may produce inflammations, abscess, and ulcers. If however the case be urgent, or the patient seems to suffer from the loss of blood, gentle astringents may be necessary. In this case the patient may take three or four ounces of limewater, with half an ounce of the tincture of Peruvian bark, three times a-day.

OF THE DYSENTERY, OR BLOODY FLUX.

This disease prevails in the spring and autumn. It is most common in marshy countries, where, after hot and dry summers, it is apt to become epidemic. Persons are most liable to it who are much exposed to the night air, or who live in places where the air is confined and unwholesome. Hence it often proves fatal in camps, on shipboard, in jails, hospitals, and such like places.

CAUSES.—The dysentery may be occasioned by any thing that obstructs the perspiration, or renders the humours putrid; as damp beds, wet clothes, unwholesome diet, air, &c. But it is most frequently communicated by infection. This ought to make people extremely cautious in going near such persons as labour under the disease. Even the smell of the patient's excrements has been known to communicate the infection.

SYMPTOMS.—It is known by a flux of the belly, attended with violent pain of the bowels, a constant inclination to go to stool, and generally more or less blood in the stools. It begins, like other fevers, with chillness, loss of strength, a quick pulse, great thirst, and an inclination to vomit. The stools are at first greasy and frothy, afterwards they are streaked with blood, and at last have frequently the appearance of pure blood, mixed with small filaments resembling bits of skin. Worms are sometimes passed both upwards and downwards through the whole course of the disease. When the patient goes to stool, he feels a bearing down, as if the whole bowels were falling out, and sometimes a part of the intestine is actually protruded, which proves exceeding troublesome, especially in chiln. Flatulence is likewise a troublesome symptom, espelly towards the end of the disease.

This disease may be distinguished from a diarrhœa or seness, by the acute pain of the bowels, and the blood ich generally appears in the stools. It may be distinshed from the *cholera morbus* by its not being attended h such violent and frequent fits of vomiting, \mathfrak{Gc} .

When the dysentery attacks the old, the delicate, or h as have been wasted by the gout, the scurvy, or cer lingering diseases, it generally proves fatal. Vomitand hiccuping are bad signs, as they shew an inflamtion of the stomach. When the stools are green, black, have an exceeding disagreeable cadaverous smell, the ager, is very great, as it shews the disease to be of the rid kind. It is an unfavourable symptom when clyrs are immediately returned; but still more so, when passage is so obstinately shut, that they cannot be inted. A feeble pulse, coldness of the extremities, with diculty of swallowing, and convulsions, are signs of apaching death.

REGIMEN.—Nothing is of more importance in this ease than cleanliness. It contributes greatly to the retery of the patient, and no less to the safety of such as and him. In all contagious diseases the danger is inused, and the infection spread, by the neglect of cleanterss; but in no one more than this. Every thing about patient should be frequently changed. The excrements and never be suffered to continue in his chamber, but reved immediately, and buried under ground. A constant am of fresh air should be admitted into the chamber; it ought frequently to be sprinkled with vinegar, juice lemon, or some other strong acid.

The patient must not be discouraged, but his spirits kept in hopes of a cure. Nothing tends more to render any rid disease mortal, than the fears and apprehensions of sick. All diseases of this nature have a tendency to k and depress the spirits, and when that is increased by rs and alarms from those whom the **patient** believes be persons of skill, it cannot fail to have the worst ects.

A flannel waistcoat worn next the skin has often a very

good effect in the dysentery. This promotes the perspiration without overheating the body. Great caution however is necessary in leaving it off. 1 have often known a dysentery brought on by imprudently throwing off a flannel waistcoat before the season was sufficiently warm. For whatever purpose this piece of dress is worn, it should never be left off but in a warm season.

In this disease the greatest attention must be paid to the patient's diet. Flesh, fish, and every thing that has a tendency to turn putrid or rancid on the stomach, must be abstained from. Apples boiled in milk, water-pap, and plain light pudding, with broth made of the gelatinous parts of animals, may constitute the principal part of the patient's food. Gelatinous broth not only answers the purpose of food, but likewise of medicine. I have often known dysenteries, which were not of a putrid nature, cured by it, after pompous medicines had proved ineffectual *.

Another kind of food very proper in the dysentery, which may be used by such as cannot take the broth mentioned above, is made by boiling a few handfuls of fine flour, tied in a cloth, for six or seven hours, till it becomes as hard as starch. Two or three table spoonfuls of this may be grated down, and boiled in such a quantity of new milk and water as to be of the thickness of pap. This

* The manner of making this broth is, to take a sheep's head and feet with the skin upon them, and to burn the wool off with a hot iron; afterwards to boil them till the broth is quite a jelly. A little cinnamon or mace may be added, to give the broth an agreeable flavour, and the patient may take a little of it warm with toasted bread three or four times a-day. A clyster of it may likewise be given twice a-day. Such as cannot use the broth made in this way, may have the head and feet skinned; but we have reason to believe that this hurs the medicine. It is not our business, here to reason upon the nature and qualities of medicine, otherwise this might be shewn to possess virtues every way suited to the cure of a dysentery which does not proceed from a putrid state of the humours. One thing we know, which is preferable to all reasoning, that whole families have often been cured by it, after they had used many other medicines in vain. It will, however, be proper, that the patient take a vomit, and a dose or two of rhubarb, before he begins to use the broth. It will likewise be necessary to continue the use of it for a considerable time, and to make it the principal feed.

y be sweetened to the patient's taste, and taken for his inary food *.

in a putrid dysentery the patient may be allowed to eat ly of most kinds of good ripe fruits; as apples, grapes, sseberries, currant-berries, strawberries, &c. These w either be eaten raw or boiled, with or without milk, the patient chuses. The prejudice against fruit in this sase is so great, that many believe it to be the common sse of dysenteries. This however is an egregious mise. Both reason and experience shew, that good fruit me of the best medicines, both for the prevention and es of the dysentery. Good fruit is in every respect calated to counteract that tendency to putrefaction, from ence the most dangerous kind of dysentery proceeds. : patient in such a case ought therefore to be allowed at as much fruit as he pleases, provided it be ripe +. The most proper drink in this disorder is whey. The entery has often been cured by the use of clear whey ce. It may be taken both for drink and in form of ter. When whey cannot be had, barley-water shar-

The learned and humane Dr Rutherford, late professor of mediin the university of Edinburgh, used to mention this food in his pubcetures with great encomiums. He directed it to be made by tying and or two of the finest flour, as tight as possible, in a linen rag, wards to dip it frequently in water, and to dridge the outside with till a cake or crust was formed around it, which prevents the water soaking into it while boiling It is then to be boiled till it becomes and dry mass, as directed above. This, when mixed with milk and will not only answer the purpose of food, but may likewise be given assessed.

I lately saw a young man who had been seized with a dysentery orth America. Many things had been tried there for his relief, but purpose. At length, tired out with disappointments from medicine, educed to skin and bone, he came over to Britain, rather with a to die among his relations, than with any hopes of a cure. After sundry medicines here with no better success than abroad, I advism to leave off the use of drugs, and to trust entirely to a diet of and fruits, with gentle exercise. Strawberries was the only fruit he procure at that season. These he ate with milk twice, and somethrice a-day. The consequence was, that in a short time his stools reduced from upwards of twenty in a day, to three or four, and somenot so many. He used the other fruits as they came in, and was in weeks so well as to leave that part of the country where I was, twiew to return to America. pened with cream of tartar may be drunk, or a decoction of barley and tamarinds; two ounces of the former and one of the latter may be boiled in two English quarts of water to one. Warm water, water-gruel, or water wherein hot iron has been frequently quenched, are all very proper, and may be drunk in turns. Camomile-tea, if the stomach will bear it, is an exceeding proper drink. It both strengthens the stomach, and by its antiseptic quality tends to prevent a mortification of the bowels.

MEDICINE.—At the beginning of this disease it is always necessary to cleanse the first passages. For this purpose a vomit of ipecacuanha must be given, and wrought off with weak camomile-tea. Strong vomits are seldom necessary here. A scruple, or at most half a drachm of ipecacuanha, is generally sufficient for an adult, and sometimes a very few grains will suffice. The day after the vomit, half a drachm, or two scruples of rhubarb, must be taken ; or, what will answer the purpose rather better, an ounce, or an ounce and a half of Epsom salts. This dose may be repeated every other day for two or three times. Afterwards small doses of ipecacuanha may be taken for some time. Two or three grains of the powder may be mixed in a table-spoonful of the syrup of poppies, and taken three times a-day.

These evacuations, and the regimen prescribed above, will often be sufficient to effect a cure. Should it however happen otherwise, the following astringent medicines may be used.

A clyster of starch or fat mutton-broth, with thirty or forty drops of liquid laudanum in it, may be administered twice a-day. At the same time an ounce of gum arabic, and half an ounce of gum-tragacanth, may be dissolved in an English pint of barley-water, over a slow fire, and a table spoonful of it taken every hour.

If these have not the desired effect, the patient may take, four times a day, about the bulk of a nutmeg of the 'Japonic confection, drinking after it a tea-cupful of the decoction of logwood *.

Persons who have been cured of this disease are very liable to suffer a relapse; to prevent which, great circum-

* See Appendix, Decoction of Logwood.

OF THE BLOODY FLUX.

tion with respect to diet is necessary. The patient abstain from all fermented liquors, except now and a glass of good wine; but he must drink no kind of liquor. He should likewise abstain from animal food, h and flesh, and live principally on milk and veges.

entle exercise and wholesome air are likewise of imunce. The patient should go to the country as soon as strength will permit, and should take exercise daily norseback, or in a carriage. He may likewise use rs infused in wine or brandy, and may drink twice ata gill of lime-water, mixed with an equal quantity of milk.

Then dysenteries prevail, we would recommend a trattention to cleanliness, a spare use of animal food, the free use of sound ripe fruits, and other vegeta-The night air is to be carefully avoided, and all nunication with the sick. Bad smells are likewise to nunned, especially those which arise from putrid animal ances. The necessaries where the sick go are careto be avoided.

Then the first symptoms of the dysentery appear, the int ought immediately to take a vomit, to go to bed, drink plentifully of weak warm liquor, to promote eat. This, with a dose or two of rhubarb at the beginwould often carry off the disease. In countries where interies prevail, we would advise such as are liable to to take either a vomit or a purge every spring or inn, as a preventive.

nere are sundry other fluxes of the belly, as the NTERY and CŒLIAC PASSION, which, though langerous than the dysentery, yet merit consideration. e diseases generally proceed from a relaxed state of the ach and intestines, which is sometimes so great, that ood passes through them without almost any sensible ition; and the patient dies merely from the want of ishment.

hen the lientery or cœliac passion succeeds to a dyry, the case is bad. They are always dangerous in ge, especially when the constitution has been broken xcess or acute diseases. If the stools be very frequent, and quite crude, the thirst great, with little urine, the mouth ulcerated, and the face marked with spots of different colours, the danger is very great.

The treatment of the patient is in general the same as in the dysentery. In all obstinate fluxes of the belly, the cure must be attempted, by first cleansing the stomach and bowels with gentle vomits and purges; afterwards such a diet as has a tendency to heal and strengthen the bowels, with opiates and astringent medicines, will generally perfect the cure.

The same observation holds with respect to a TENES. MUS, or frequent desire of going to stool. This disease resembles the dysentery so much, both in its symptoms and method of cure, that we think it needless to insist upon it.

CHAP. XXXIV.

OF THE HEAD-ACH.

A CHS and pains proceed from very different causes, and may affect any part of the body; but we shall point out those only which occur most frequently, and are attended with the greatest danger.

When the head-ach is slight, and affects a particular part of the head only, it is called *cephalalgia*; when the whole head is affected, *cephalæa*; and when on one side only, *hemicrania*. A fixed pain in the forehead, which may be covered with the end of the thumb, is called the *clavis hystericus*.

There are also other distinctions. Sometimes the pair is internal, sometimes external; sometimes it is an original disease, and at other times only symptomatic. When the head-ach proceeds from a hot bihous habit, the pain is very acute and throbbing, with a considerable heat of the pair affected. When from a cold phlegmatic habit, the patien complains of a dull heavy pain, and has a sense of coldnes in the part. This kind of head-ach is sometimes attended with a degree of stupidity or folly.

OF THE HEAD-ACH.

Whatever obstructs the free circulation of the blood ough the vessels of the head, may occasion a head-ach. persons of a full habit, who abound with blood, or her humours, the head-ach often proceeds from the opression of customary evacuations; as bleeding at the se, sweating of the feet, &c. It may likewise proceed in any cause that determines a great flux of blood wards the head; as coldness of the extremities, or inging down the head for a long time. Whatever preints the return of the blood from the head will likewise ccasion a head-ach; as looking long obliquely at any ject, wearing any thing tight about the neck, or the te.

When a head-ach proceeds from the stoppage of a runng at the nose, there is a heavy, obtuse, pressing pain the fore part of the head, in which there seems to be the a weight, that the patient can scarce hold it up. then it is occasioned by the caustic matter of the venell disease, it generally affects the skull, and often procces a *caries* of the bones.

Sometimes the head-ach proceeds from the repulsion retrocession of the gout, the erysipelas, the small pox, easles, itch, or other eruptive diseases. What is called *bhemicrania* generally proceeds from crudities or indilation. Inanition, or emptiness, will often also occasion and achs. I have often seen instances of this in nurses to gave suck too long, or who did not take a sufficient antity of solid food.

There is likewise a most violent, fixed, constant, and nost intolerable head-ach, which occasions great deity, both of body and mind, prevents sleep, destroys e appetite, causes a *vertigo*, dimness of sight, a noise the ears, convulsions, epileptic fits, and sometimes voting, costiveness, coldness of the extremities, &c.

The head ach is often symptomatic in continual and ermitting fevers, especially quartans. It is likewise a ry common symptom in hysteric and hypochondriac mplaints.

When a head ach attends an acute fever, with pale uie, it is an unfavourable symptom. In excessive headhs, coldness of the extremities is a bad sign. When the disease continues long, and is very violent, it often terminates in blindness, an apoplexy, deafness, a *vertigo*, the palsy, epilepsy, &c.

In this disease the cool regimen in general is to be observed. The diet ought to consist of such emollient substances as will correct the acrimony of the humours, and keep the body open; as apples boiled in milk, spinage, turnips, and such like. The drink ought to be diluting; as barley-water, infusions of mild mucilaginous vegetables, decoctions of the sudorific woods, &c. The feet and legs ought to be kept warm, and frequently bathed in lukewarm water; the head should be shaved, and bathed with water and vinegar. The patient ought as much as possible to keep in an erect posture, and not to lie with his head too low.

When the head-ach is owing to excess of blood, or an hot bilious constitution, bleeding is necessary. The patient may be bled in the jugular vein, and the operation repeated if there be occasion. Cupping also, or the application of leeches to the temples, and behind the ears, will be of service. Afterwards a blistering-plaster may be applied to the neck behind the ears, or to any part of the head that is most affected. In some cases it will be proper to blister the whole head. In persons of a gross habit, issues or perpetual blisters will be of service. The body ought likewise to be kept open by gentle laxatives.

But when the head-ach proceeds from a copious vitiated *serum* stagnating in the membranes, either within or without the skull, with a dull, heavy, continual pain, which will neither yield to bleeding nor gentle laxatives, then more powerful purgatives are necessary, as pills made of aloes, resin of jalap, or the like. It will also be necessary in this case to blister the whole head, and to keep the back part of the neck open for a considerable time by a perpetual blister.

When the head-ach is occasioned by the stoppage of a running at the nose, the patient should frequently smell to a bottle of volatile salts; he may likewise take snuff, or any thing that will irritate the nose, so as to promote a discharge from it; as the herb mastich, ground-ivy, &c,

OF THE HEAD-ACH.

A *bemicrania*, especially a periodical one, is generally ng to a foulness of the stomach, for which gentle nits must be administered, as also purges of rhubarb. er the bowels have been sufficiently cleared, chalybeate ers, and such bitters as strengthen the stomach, will be essary. A periodical head-ach has been cured by uring a piece of flannel over the forehead during the ht.

When the head-ach arises from a vitiated state of the nours, as in the scurvy and venereal disease, the pat, after proper evacuations, must drink freely of the oction of woods, or the decoction of sarsaparilla, with ins and liquorice *. These promote perspiration, sweetthe humours, and, if duly persisted in, will produce 7 happy effects. When a collection of matter is felt er the skin, it must be discharged by an incision, otherit will render the bone carious.

Vhen the head-ach is so intolerable as to endanger the ent's life, or is attended with continual watching, dem, &c. recourse must be had to opiates. These, after per evacuations by clysters or mild purgatives, may be hed both externally and internally. The affected part be rubbed with Bate's anodyne balsam, or a cloth bed in it may be applied to the part. The patient , at the same time, take twenty drops of laudanum, cup of valerian or penny-royal tea, twice or thrice y. This is only to be done in case of extreme pain. ber evacuations ought always to accompany and folthe use of opiates. †

Then the patient cannot bear the loss of blood, his ought frequently to be bathed in lukewarm water, well rubbed with a coarse cloth. Cataplasms with and or horse-radish, ought likewise to be applied to a. This course is peculiarly necessary when the pain eeds from a gouty humour affecting the head.

iee Appendix, Desoction of Sarsaparilla.

When the pain is very violent, and does not yield to small doses of laun, the quantity may be increased I have known a patient in expain take three hundred drops in twenty-four hours; but such doses only to be administered by a person of skill. When the head-ach is occasioned by great heat, hard labour, or violent exercise of any kind, it may be allayed by cooling medicines; as the saline draughts with nitre, and the like.

A little of Ward's essence, dropt into the palm of the hand, and applied to the forehead, will sometimes remove a violent head-ach; and so will æther, when appled in the same manner.

OF THE TOOTH-ACH.

THIS disease is so well known, that it needs no description. It has great affinity with the rheumatism, and of ten succeeds pain of the shoulders and other parts of the body.

It may proceed from obstructed perspiration, or any of the other causes of inflammation. I have often known the tooth ach occasioned by neglecting some part of the usual cover ings of the head, by sitting with the head bare near an oper window, or exposing it any how to a draught of cold an Food or drink taken either too hot or too cold is very hurt ful to the teeth. Great quantities of sugar, or other sweet meats, are likewise hurtful. Nothing is more destructiv to the teeth than cracking nuts, or chewing any kind o hard substances. Picking the teeth with pins, needle or any thing that may hurt the enamel with which the are covered, does great mischief, as the tooth is sure t be spoiled whenever the air gets into it. Breeding wome are very subject to the tooth-ach, especially during the first three or four months of pregnancy. The tooth-ac often proceeds from scorbutic humours affecting th gums. In this case the teeth are sometimes wasted, an fall out without any considerable degree of pain. The more immediate cause of the tooth-ach is a rotten or cario tooth.

In order to relieve the tooth-ach, we must first ender your to lessen the flux of humours to the part affecte. This may be done by mild purgatives, scarifying the gums, or applying leeches to them, and bathing the fe frequently with warm water. The perspiration oug likewise to be promoted, by drinking freely of wea : whey, or other diluting liquors, with small doses of . Vomits too have often an exceeding good effect in tooth-ach. It is seldom safe to administer opiates, or kind of heating medicines, or even to draw a tooth, till ber evacuations have been premised; and these alone often affect the cure.

this fails, and the pain and inflammation still increase, ppuration may be expected, to promote which, a toastg should be held between the gum and the cheek ; bags 1 with boiled camomile-flowers, flowers of elder, or like, may be applied near the part affected, with as t a degree of warmth as the patient can bear, and reed as they grow cool : the patient may likewise receive steams of warm water into his mouth, through an ined funnel, or by holding his head over the mouth of rringer filled with warm water, &c.

uch things as promote the discharge of saliva, or cause patient to spit, are generally of service. For this pur-, bitter, hot, or pungent vegetables may be chewed; as ian, calamus aromaticus, or pellitory of Spain. Allen mmends the root of *y*-llow water flower-de-luce in this . This root may either be rubbed upon the tooth, or a ? of it chewed. Brookes says he hardly ever knew it to ease the tooth-ach. It ought however to be used 1 caution.

lany other herbs, roots, and seeds, are recommended curing the tooth-ach; as the leaves or roots of milleor yarrow chewed, tobacco smoked or chewed, es acre, or the seeds of mustard chewed, &cc. These er, hot, and pungent things, by occasioning a greater of *saliva*, frequently give ease in the tooth-ach.

piates often relieve the tooth ach. For this purpose a cotton wet with laudanum may be held between teeth; or a piece of sticking-plaster, about the bigness shilling, with a bit of opium in the middle of it, of ze not to prevent the sticking of the other, may be on the temporal artery, where the pulsation is t sensible. De la Motte affirms, that there are few wherein this will not give relief. If there be a holtooth, a small pill made of equal parts of camphire opium, put into the hollow, is often beneficial. When this cannot be had, the hollow tooth may be filled with gum mastich, wax, lead, or any substance that will stick in it, and keep out the external air.

Few applications give more relief in the tooth-ach than blistering plasters. These may be applied between the shoulders; but they have the best effect when put behind the ears, and made so large as to cover a great part of the lower jaw.

After all, when a tooth is carious, it is often impossible to remove the pain without extracting it; and as a spoil tooth never becomes sound again, it is prudent to draw it soon, lest it should affect the rest. Tooth-drawing, like bleeding, is very much practised by mechanics, as well as persons of the medical profession. The operation however is not without danger, and ought always to be performed with care. A person unacquainted with the structure of the parts will be in danger of hurting the jaw-bone, or of drawing a sound tooth instead of a rotten one *.

When the tooth-ach returns periodically, and the pain chiefly affects the gums, it may be cured by the bark.

Some pretend to have found great benefit in the toothach, from the application of an artificial magnet to the affected tooth. We shall not attempt to account for its mode of operation; but, if it be found to answer, though only in particular cases, it certainly deserves a trial, and it is attended with no expence, and cannot do any harm. Electricity has likewise been recommended, and particular in struments have been invented for sending a shock through the affected tooth.

Persons who have returns of the tooth-ach at certain seasons, as spring and autumn, might often prevent it by taking a purge at these times.

Keeping the teeth clean has no doubt a tendency t prevent the tooth-ach. The best method of doing this to to wash them daily with salt and water, a decoction of th bark, or with cold water alone. All brushing and scrapin

* This may always be prevented by the operator striking upon t teeth with any piece of metal, as this never fails to excite the pain in t carious tooth.

OF THE EAR-ACH.

the teeth is dangerous, and, unless it be performed with at care, does mischief.

OF THE EAR-ACH.

His disorder chiefly aflects the membrane which lines inner cavity of the ear called the *meatus auditorius*. s often so violent as to occasion great restlessness any, and every delirium. Sometimes epileptic fits, and er convulsive disorders, have been brought on by exne pain in the ear.

The ear-ach may proceed from any of the causes which luce inflammation. It often proceeds from a sudden pression of perspiration, or from the head being exposed old when covered with sweat. It may also be occasionby worms, or other insects getting into the ear, or being I there; or from any hard body sticking in the ear. Interest it proceeds from the translation of morbific matto the ear. This often happens in the decline of maant fevers, and occasions deafness, which is generally coned a favourable symptom.

Vhen the ear-ach proceeds from insects, or any hard y sticking in the ear, every method must be taken to ove them as soon as possible. The membranes may elaxed by dropping into the ear oil of sweet almonds, live oil. Afterwards the patient should be made to ze, by taking snuff, or some strong sternutatory. If should not force out the body, it must be extracted art. I have seen insects, which had got into the ear, e out of their own accord upon pouring in oil, which thing they cannot bear.

Then the pain of the ear proceeds from inflammation, ust be treated like other topical inflammations, by a ing regimen, and opening medicines. Bleeding at the nning, either in the arm or jugular vein, or cupping he neck, will be proper. The ear may likewise be foted with steams of warm water; or flannel bags fillwith boiled mallows and camomile flowers, may be ied to it warm; or bladders filled with warm milk water. An exceeding good method of fomenting the

SS

ear is to apply it close to the mouth of a jug filled with warm water, or a strong decoction of camomile flowers.

The patient's feet should be frequently bathed in lukewarm water, and he ought to take small doses of nitre and rhubarb, viz. a scruple of the former, and ten grains of the latter, three times a-day. His drink may be whey, or decoction of barley and liquorice with figs or raisins. The parts behind the ear ought frequently to be rubbed with camphrated oil, or a little of the volatile liniment.

When the inflammation cannot be discussed, a poultice of bread and milk, or roasted ouions, may be applied to the ear, and frequently renewed, till the abscess breaks, or can be opened. Afterwards the humours may be diverted from the part by gentle laxatives, blisters, or issues ; but the discharge must not be suddenly dried up by any external application.

PAIN OF THE STOMACH, Ge.

This may proceed from various causes; as indigestion wind; the acrimony of the bile; sharp, acrid, or poison ous substances taken into the stomach, &c. It may like wise be occasioned by worms'; the stoppage of customar evacuations; a translation of gouty matter to the stomach the bowels, &c.

Women in the decline of life are very liable to pains of the stomach and bowels, especially such as are afflicted with hysteric complaints. It is likewise very common to hy pochondriac men of a sedentary and luxurious life. I such persons it often proves so extremely obstinate as to baffle all the powers of medicine.

When the pain of 'the stomach is most violent after eaing, there is reason to suspect that it proceeds from som fault either in the digestion or the food. In this case the patient ought to change his diet, till he finds what kin of food agrees best with his stomach, and should cont nue chiefly to use it. If a change of diet does not removthe complaint, the patient may take a gentle vomit, an afterwards a dose or two of rhubarb. He ought likewito take an infusion of camomile flowers, or some othstomachic bitter, either in wine or water. I have offer own exercise remove this complaint, especially sailing, a long journey on horseback, or in a carriage.

When a pain of the stomach proceeds from flatulency, patient is constantly belching up wind, and feels an easy distention of the stomach after meals. This is a st deplorable disease, and is seldom thoroughly cured. general, the patient ought to avoid all windy diet, and ery thing that sours on the stomach, as greens, roots, . This rule, however, admits of some exceptions. There many instances of persons very much troubled with nd, who have received great benefit from eating parched use, though that grain is generally supposed to be of a ndy nature *.

This complaint may likewise be greatly relieved by lair, especially digging, reaping, mowing, or any kind of ive employment by which the bowels are alternately inpressed and dilated. The most obstinate case of this id I ever met with was in a person of a sedentary occution, whom I advised, after he had tried every kind of idicine in vain, to turn gardener; which he did, and has er since enjoyed good health.

When a pain of the stomach is occasioned by the swalving of acrid, or poisonous substances, they must be disurged by vomit; this may be excited by butter, oils, or her soft things, which sheath and defend the stomach m the acrimony of its contents.

When pain of the stomach proceeds from a translation of uty matter, warm cordials are necessary, as generous nes, French brandy, &c. Some have drunk a whole ttle of brandy or rum, in this case, in a few hours, witht being in the least intoxicated, or even feeling the stoach warmed by it. It is impossible to ascertain the quanes necessary upon these occasions. This must be left to be feelings and discretion of the patient. The safer way, wever, is, not to go too far. When there is an inclination vomit, it may be promoted by drinking an infusion of momile flowers, or *carduus benidictus*.

* These are prepared by steeping or soaking pease in water, and afterrds drying them in a pot or kiln till they be quite hard. They may used at pleasure.

2

If a pain of the stomach proceed from the stoppage of customary evacuations, bleeding will be necessary, especially in sanguine and very full habits. It will likewise be of use to keep the body gently open by mild purgatives; as rhubarb or senna, &c. When this disease affects women, in the decline of life, after the stoppage of the *menser*, making an issue in the leg or arm will be of peculiar service.

When the disease is occasioned by worms, they must be destroyed, or expelled by such means as are recommended in the following section.

When the stomach is greatly relaxed, and the digestion bad, which often occasion flatulencies, the elixir of vitriol will be of singular service. Fifteen or twenty drops of it may be taken in a glass of wine or water twice or thrice aday.

Persons afflicted with flatulency are generally unhappy, unless they be taking some purgative medicines; these, though they may give immediate ease, tend to weaken and relax the stomach and bowels, and consequently increase the disorder. Their best method is to mix purgatives and stomachics together. Equal parts of Peruvian bark and rhubarb may be infused in brandy or wine, and taken in such quantity as to keep the body gently open.

CHAP. XXXV.

OF WORMS.

THESE are chiefly of three kinds, viz. the *tania*, or tape-worm; the *teres*, or round and long worm; and the *ascarides*, or round and short worm. There are many other kinds of worms found in the human body; but a they proceed, in a great measure, from similar causes, have nearly the same symptoms, and require almost the same method of treatment as these already mentioned, we shal not spend time in enumerating them.

The tape-worm is white, very long, and full of joints

OF WORMS.

s generally bred either in the stomach or small intestines. e round and long worm is likewise bred in the small s, and sometimes in the stomach. The round and short ms commonly lodge in the *rectum*, or what is called end-gut, and occasion a disagreeable itching about the t.

The long round worms occasion squeamishness, vomiting, isagreeable breath, gripes, looseness, swelling of the belly, bonings, loathing of food, and at other times a voracious betite, a dry cough, convulsions, epileptic fits, and somees a privation of speech. These worms have been own to perforate the intestines, and get into the caviof the belly. The effects of the tape-worm are nearly the ne with those of the long and round, but rather morelent.

Andry says, the following symptoms particularly attend solium, which is a species of the tape-worm, viz. swoons, privation of speech, and a voracious appetite. The nd worms, called *ascarides*, besides an itching of the s, cause swoonings, and tenesmus, or an inclination to to stool.

AUSES.—Worms may proceed from various causes; they are seldom found except in weak and relaxed nachs, where the digestion is bad. Sedentary persons are te liable to them than the active and laborious. Those the eat great quantities of unripe fruit, or who live much raw herbs and roots, are generally subject to worms. There seems to be a hereditary disposition in some persons to disease. I have often seen all the children of a family ject to worms of a particular kind. They seem likete frequently to be owing to the nurse. Children of the e family, nursed by one woman, have often worms, en those nursed by another have none.

YMPTOMS.—The common symptoms of worms are, eness of the countenance, and at other times, an unial flushing of the face; itching of the nose; this, ever, is doubtful, as children pick their noses in all ases; starting, and grinding of the teeth in sleep; lling of the upper lip; the appetite sometimes bad, at other times quite voracious; looseness; a sour, or

OF WORMS.

stinking breath; a hard swelled belly; great thirst; the urine frothy, and sometimes of a whitish colour; griping or cohe pains; an involuntary discharge of *saliva*, especially when asleep; frequent pains of the side, with a dry cough, and unequal pulse; palpitations of the heart swoonings; drowsiness; cold sweats; palsy; epileptic fits with many other unaccountable nervous symptoms, which were formerly attributed to witchcraft, or the influence of evil spirits. Small bodies in the excrements resembling melon or cucumber seeds, are symptoms of the tape worm.

I lately saw some very surprising effects of worms in girl about five years of age, who used to lie for whol hours as if dead. She at last expired, and, upon openin her body, a number of *teres*, or long round worms, wer found in her guts, which were considerably inflamed; an what anatomists call an *intus susceptio*, or involving of on part of the gut within another, had taken place in no le than four different parts of the intestinal canal *.

MEDICINE.—Though numberless medicines are exto led for expelling and killing worms \ddagger , yet no disease mon frequently baffles the physician's skill. In general, the mon proper medicines for their expulsion are strong purgative and to prevent their breeding, stomachic bitters, with no and then a glass of good wine.

The best purge for an adult is jalap and calomel. Fir and twenty or thirty grains of the former with six or seve of the latter, mixed in syrup, may be taken early the morning for a dose. It will be proper that the patient keep the house all day, and drink nothing col

* That worms exist in the human body there can be no doubt; a that they must sometimes be considered as a disease, is equally certain but this is not the case so often as people imagine. The idea that wor occasion many diseases, gives an opportunity to the professed worm-do tors of imposing on the credulity of mankind, and doing much misch They find worms in every case, and liberally throw in their antidow which generally consist of strong, drastic purges. I have known the given in delicate constitutions to the destruction of the patient, whethere was not the least symptom of worms.

+ A medical writer of the present age has enumerated upwards of t British plants, all celebrated for killing and expelling worms. e dose may be repeated once or twice a week, for a night or three weeks. On the intermediate days the ient may take a drachm of the powder of tin, twice or ice a-day, mixed with syrup, honey, or treacle.

Those who do not chuse to take the calomel may m ke of the bitter purgatives; as aloes, hiera picra, tincture enna, and rhubarb, &c.

Dily medicines are sometimes found beneficial for exing worms. An ounce of sallad oil and a table-spoonof common salt may be taken in a glass of red port e thrice a day, or oftener, if the stomach will bear it. the more common form of using oil is in clysters. r clysters, sweetened with sugar or honey, are very cacious in bringing away the short round worms called *urides*, and likewise the *teres*.

The Harrowgate water is an excellent medicine for elling worms, especially the *ascarides*. As this water mpregnated with sulphur, we may hence infer, that ohur alone must be a good medicine in this case; which ound to be a fact. Many practitioners give flour of sulr in very large doses, and with great success. It should made into an electuary with honey or treacle, and tain such quantity as to purge the patient.

Where Harrowgate water cannot be obtained, sea-wamay be used, which is far from being a contemptible licine in this case. If sea water cannot be had, coma salt dissolved in water may be drunk. I have often this used by country nurses with very good effect. The flour of sulphur may be taken over night, and the water in the morning.

but worms, though expelled, will soon breed again, if stomach remains weak and relaxed; to prevent which would recommend the Peruvian bark. Half a drachm ark in powder may be taken in a glass of red port e three or four times a day, after the above medicines e been used. Lime water is likewise good for this pose, or a table-spoonful of the chalybeate wine taken the or thrice a day. Infusions or decoctions of bitter os may likewise be drunk; as the infusion of tansy, er trefoil, camomile flowers, tops of wormwood, the er centaury, &c.

OF WORMS.

For a child of four or five years old, six grains or rhubarb, five of jalap, and two of calomel, may be mixed in a spoonful of syrup or honey, and given in the morning. The child should keep the house all day, and take nothing cold. This dose may be repeated twice a week for three or four weeks. On the intermediate days the child may take a scruple of powdered tin, and ten grain of æthiops mineral in a spoonful of treacle twice a day This dose must be increased or diminished according to th age of the patient.

Bisset says, the great bastard black hellebore, or *bear* foot, is a most powerful vermifuge for the long roun worms. He orders the decoction of about a drachm of the green leaves, or about fifteen grains of the drie leaves in powder for a dose to a child between four an seven years of age. This dose is to be repeated tw or three times. He adds, that the green leaves mad into a syrup with coarse sugar, is almost the only med cine he has used for round worms for three years pas Before pressing out the juice, he moistens the bruise leaves with vinegar, which corrects the medicine. Th dose is a tea-spoonful at bed-time, and one or two nex morning.

I have frequently known those big bellies, which i children are commonly reckoned a sign of worms, qui removed by giving them white soap in their pottage, o other food. Tansy, garlic, and rue, are all good again worms, and may be used various ways. We might her mention many, other plants, both for external, and inte nal use, as the cabbage bark, &c. but think the powde of tin with æthiops mineral, and the purges of rhubarb an calomiel, are more to be depended on.

Ball's purging vermifuge powder is a very powerful medicine. It is made of equal parts of rhubarb, scan mony, and calomel, with as much double refined sugas is equal to the weight of all the other ingredient. These must be well mixed together, and reduced to a fir powder. The dose for a child is from ten grains to twent once or twice a-week. An adult may take a drachm for dose *.

* A powder for the tape-worm resembling this, was long kept as

228

OF THE JAUNDICE.

Parents who would preserve their children from worms the to allow them plenty of exercise in the open air; take care that their food be wholesome and sufficiently d: and, as far as possible, to prevent their eating herbs, roots, or green trashy fruits. It will not be ss to allow a child who is subject to worms, a glass of wine after meals; as every thing that braces and ngthens the stomach is good both for preventing and elling these vermin \ddagger .

C H A P. XXXVI.

OF THE JAUNDICE.

2.

THIS disease is first observable in the white of the eye, which appears yellow. Afterwards the whole skin s on a yellow appearance. The urine too is of a saffron , and dyes a white cloth of the same colour. There kewise a species of this disease called the Black Jaun-

AUSES.—The immediate cause of the jaundice is an ruction of the bile. The remote or occasional causare, the bites of poisonous animals, as the viper, mad , &c. the bilious or hysteric cholic; violent passions; grief, anger, &c. Strong purges or vomits will likee occasion the jaundice. Sometimes it proceeds from inate agues, or from that disease being prematurely oped by astringent medicines. In infants it is often oconed by the *meconium* not being sufficiently purged off.

on the Continent ; it was lately purchased by the French king, and be found under the article *Powder*, in the Appendix.

We think it necessary here to warn people of their danger who cakes, powders, and other worm medicines, at random from ks, and give them to their children without proper care. The cipal ingredients in most of these medicines is mercury, which ever to be triffed with I lately saw a shocking instance of the ger of this conduct. A girl who had taken a dose of worm powbought of a travelling quack, went out, and perhaps was so imlent as to drink cold water during its operation. She immediately led, and died on the following day, with all the symptoms of having poisoned.

Tt

Pregnant women are very subject to it. It is likewise a symptom of several kinds of tever. Catching cold, of the stoppage of customary evacuations, as the menses, the bleeding piles, issues, &c. will occasion the jaundice.

SYMPTOMS.—The patient at first complains of ex cessive weariness, and has great aversion to every kind o motion. His skin is dry, and he generally feels a kind o itching or pricking pain over the whole body. The stool are of a whitish or clay colour, and the urine, as was ob served above, is yellow. The breathing is difficult, and the patient complains of an unusual load or oppression of his breast. There is a heat in the nostrils, a bitter tast in the mouth, loathing of food, sickness at the stomach vomiting, flatulency, and other symptoms of indigestion

If the patient be young, and the disease complicate with no other malady, it is seldom dangerous; but it old people, where it continues long, returns frequently or is complicated with the dropsy or hypocondriac symp toms, it generally proves fatal. The black jaundice is more dangerous than the yellow.

REGIMEN.—The diet should be cool, light, and di luting, consisting chiefly of ripe fruits and mild vegeta bles; as apples boiled or roasted, stewed prunes, pre served plums, boiled spinage, &c. Veal or chicken broth with light bread, are likewise very proper. Many hav been cured by living almost wholly for some days on ray eggs. The drink should be butter milk, whey sweeten ed with honey, or decoctions of cool opening vegetables or marsh-mallow roots, with liquorice, &c.

The patient should take as much exercise as he can bear, either on horseback, or in a carriage; walking running, and even jumping, are likewise proper, provide he can bear them without pain, and there be no symp toms of inflammation. Patients have often been cured of this disease by a long journey, after medicines had prove ineffectual.

Amusements are likewise of great use in the jaundice The disease is often occasioned by a sedentary life, joiner to a dull melancholy disposition. Whatever therefor tends to promote the circulation, and to cheer the spirits must have a good effect; as dancing, laughing, singing, &c

OF THE JAUNDICE.

IEDICINE.—If the patient be young, of a full sante habit, and complains of pain in the right side about region of the liver, bleeding will be necessary. After a vomit must be administered, and if the disease proves inate, it may be repeated once or twice. No medicines more beneficial in the jaundice than vomits, especially re it is not attended with inflammation. Half a drachm becacuanha in powder will be a sufficient dose for an it. It may be wrought off with weak camomile-tea, or warm water. The body must likewise be kept open aking a sufficient quantity of Castile soap, or the pills the jaundice recommended in the Appendix.

comenting the parts about the region of the stomach liver, and rubbing them with a warm hand or flesh lh, are likewise beneficial; but it is still more so for patient to sit in a bath of warm water up to the breast. ought to do this frequently, and should continue in it ong as his strength will permit.

Many dirty things are recommended for the cure of the indice ; as lice, millepedes, &c. But these do more in than good, as people trust to them, and neglect we valuable medicines ; besides, they are seldom takin sufficient quantity to produce any effects. People mays expect that such *things* should act as charms, and sequently seldom persist in the use of them. Vomits, ages, fomentations, and exercise, will seldom fail to be the jaundice when it is a simple disease; and when implicated with the dropsy, a scirrhous liver, or other conic complaints, it is hardly to be cured by any mans.

Numberless British herbs are extolled for the cure of disease. The author of the *Medicina Britannica* menns near a hundred, all famous for curing the jaundice. e fact is, the disease often goes off of its own accord; which the last medicine is always said to have performthe cure. I have sometimes however seen considerable nefit, in a very obstinate jaundice, from a decoction of mpseed. Four ounces of the seed may be boiled in two glish quarts of ale, and sweetened with coarse sugar. te dose is half an English pint every morning. It may continued for eight or nine days.

Tt2

I have likewise known Harrowgate sulphur-water cure a jaundice of very long standing. It should be used for some weeks, and the patient must both drink and bathe. The soluble tartar is a very proper medicine in the jaundice. A drachm of it may be taken every night and morning in a cup of tea or water-gruel. If it does not o pen the body, the dose may be increased.

Persons subject to the jaundice ought to take as much exercise as possible, and to avoid all heating and astringen aliments.

C H A P. XXXVII.

OF THE DROPSY.

HE dropsy is a preternatural swelling of the whole body, or some part of it, occasioned by a collection of watery humour. It is distinguished by different names, according to the part affected, as the *anasarca*, or a collection of water under the skin; the *ascites*, or a collection of water in the belly; the *bydrops pectoris*, or dropsy of the breast; the *bydrocepbalus*, or dropsy of the brain, &c.

CAUSES.—The dropsy is often owing to an hereditary disposition. It may likewise proceed from drinking ardem spirits, or other strong liquors. It is true almost to a proverb, that great drinkers die of a dropsy. The want of exercise is also a very common cause of the dropsy. Hence it is justly reckoned among the diseases of the sedentary. It often proceeds from excessive evacuations, as frequent and copious bleedings, strong purges often repeated, frequent salivations, &c. The sudden stoppage of customary or necessary evacuations, as the *menses*, the hæmorrhoids, fluxes of the belly, &c. may likewise cause a dropsy.

I have known the dropsy occasioned by drinking large quantities of cold, weak, watery liquor, when the body was heated by violent exercise. A low, damp, or marshy situation is likewise a frequent cause of it. Hence it is a common disease in moist, flat, fenny countries. It 7 also be brought on by a long use of poor watery diet, f viscous aliment that is hard of digestion. It is often effect of other diseases, as the jaundice, a scirrhus of liver, a violent ague of long continuance, a diarrhœa, rsentery, an empyema, or a consumption of the lungs. hort, whatever obstructs the perspiration, or prevents blood from being duly prepared, may occasion a DSY.

YMPTOMS.—The anasacra generally begins with a lling of the feet and ancles towards night, which for the time disappears in the morning. In the evening the tas, if pressed with the finger, will pit. The swelling dually ascends, and occupies the trunk of the body, arms, and the head. Afterwards the breathing bemes difficult, the urine is in small quantity, and the st great ; the body is bound, and the perspiration is atly obstructed. To these succeed torpor, heaviness, llow wasting fever, and a troublesome cough. This is generally a fatal symptom, as it shews that the lungs affected.

n an *ascites*, besides the above symptoms, there is a elling of the belly, and often a fluctuation, which may perceived by striking the belly on one side; and laying palm of the hand on the opposite. This may be disguished from a *tympany* by the weight of the swelling, well as by the fluctuation. When the *anasacra* and *ites* are combined, the case is very dangerous. Even mple *ascites* seldom admits of a radical cure. Almost that can be done is to let off the water by tapping, ich seldom affords more than temporary relief.

When the disease comes suddenly on, and the patient young and strong, there is reason however to hope for ure, especially if medicine be given early. But if the ient be old, has led an irregular or a sedentary life, or here be reason to suspect that the liver, lungs, or any the viscera are unsound, there is great reason to fear at the consequences will prove fatal.

REGIMEN.—The patient must abstain, as much as ssible, from all drink, especially weak and watery liors, and must quench his thirst with mustard-whey, acids, as juice of lemon, oranges, sorrel, or such like. His aliment ought to be dry, of a stimulating and diuretic quality, as toasted bread, the flesh of birds, or other wild animals roasted; pungent and aromatic vegetables, as garlic, mustard, onions, cresses, horse radish rocambole, shalot, &c. He may also eat sea biscuit dipt in wine or a little brandy. This is not only nourishing, but tends to quench thirst. Some have been actually cured of a dropsy by a total abstinence from all liquids, and living entirely upon such things as are mentioned above. If the patient must have drink, the Spa-water, or Khenish wine, with diuretic medicines infused in it, are the best.

Exercise is of the greatest importance in a dropsy. It the patient be able to walk, dig, or the like, he ought to continue these exercises as long as he can. If he is not able to walk or labour, he must ride on horseback, or in a carriage, and the more violent the motion so much the better, provided he can bear it. His bed ought to be hard, and the air of his apartments warm and dry. If he lives in a damp country, he ought to be removed into a dry one, and, if possible, into a warmer climate. In a word, every method should be taken to promote the perspiration, and to brace the solids. For this purpose it will likewise be proper to rub the patient's body, two or three times a-day, with a hard cloth, or the flesh-brush ; and he ought constantly to wear flannel next his skin.

MEDICINE.—If the patient be young, his constitution good, and the disease has come on suddenly, it may generally be removed by strong vomits, brisk purges, and such medicines as promote a discharge by sweat and urine. For an adult, half a drachm of ipecacuanha in powder, and half an ounce of oxymel of squills, will be a proper vomit. This may be repeated as often as is found necessary, three or four days, intervening between the doses. The patient must not drink much after taking the vomit, otherwise he destroys its effect. A cup or two of camomile-tea will be sufficient to work it off.

Between each vomit, on one of the intermediate days, the patient may take the following purge : Jalap in powder, half a drachm; cream of tartar, two drachms; calomel, six grains. These may be made into a bolus with a little syrup of pale roses, and taken early in the mornThe less the patient drinks after it the better. If he much griped, he may now and then take a cup of ken-broth.

he patient may likewise take every night at bed-time following bolus: To four or five grains of camphor one grain of opium, and as much syrup of orangeas is sufficient to make them into a bolus. This will rally promote a gentle sweat, which should be encoud by drinking now and then a small cup of winey, with a tea spoonful of the spirits of hartshorn in it. a cupful of the following diuretic infusion may likebe taken every four or five hours through the

ake juniper berries, mustard seed, and horse radish, ach half an ounce, ashes of broom half a pound; inthem in a quart of Rhenish wine, or strong ale, for a days, and afterwards strain off the liquor. Such as not take this infusion, may use the decoction of seneoot, which is both diuretic and sudorific. I have known obstinate *anasarca* cured by an infusion of the ashes of om in wine.

he above course will often cure an incidental dropsy, e constitution be good ; but when the disease proceeds a bad habit, or an unsound state of the viscera, strong ges and vomits are not to be ventured upon. In this , the safer course is to palliate the symptoms by the of such medicines as promote the secretions, and to port the patient's strength by warm and nourishing tials.

he secretion of urine may be greatly promoted by ni-Brookes says, he knew a young woman who was cured dropsy by taking a drachm of nitre every morning in aught of ale, after she had been given over as incura-The powder of squills is likewise a good diuretic. or eight grains of it, with a scruple of nitre, may be in twice a-day in a glass of strong cunnamon-water. Ball , a large spoonful of unbruised mustard-seed taken every it and morning, and drinking half an English pint of decoction of the tops of green broom after it, has perned a cure after other powerful medicines had provedfectual. I have sometimes seen good effects from cream of tar. tar in this disease. It promotes the discharges by stool and urine, and will at least palliate, if it does not perform a cure. The patient may begin by taking an ounce every second or third day, and may increase the quantity to two or even to three ounces, if the stomach will bear it. This quantity is not however to be taken at once, but divided into three or four doses.

To promote perspiration, the patient may use the decoction of seneka-root, as directed above; or he may take two table-spoonfuls of Mindererus's spirit in a cup of winewhey three or four times a-day. To promote a discharge of urine, the following infusion of the London hospitals will likewise be beneficial.

Take of zedoary root, two drachms; dried squills, rhabarb, and juniper-berries bruised, of each a drachm; cinnamon in powder, three drachms; salt of wormwood, a drachm and a half; infuse in an English pint and a half of old hock-wine, and when fit for use, filter the liquor. A wine glass of it may be taken three or four times a-day.

In the *anasarca* it is usual to scarify the feet and legs. By this means the water is often discharged; but the operator must be cautious not to make the incisions too deep; they ought barely to pierce through the skin, and especial care must by taken, by spirituous fomentations and proper digestives, to prevent a gangrene.

In an *acites*, when the disease does not evidently and speedily give way to purgative and diuretic medicines, the water ought to be let off by tapping. This is a very simple and safe operation, and would often succeed, if it were performed in due time; but if it be delayed till the humours are vitiated, or the bowels spoiled by long soaking in water, it can hardly be expected that any permanent relief will be procured *.

* The very name of an operation is dreadful to most people, and they wish to try every thing before they have recourse to it. This is the reason why tapping so seldom succeeds to our wish. I have had a patient who was regularly tapped once a month for several years, and who used to eat her dinner as well after the operation as if nothing had happened. She died at last rather worn out by age than by the disease. Ifter the evacuation of the water, the patient is to be on a course of strengthening medicines; as the Perubark; the elixir of vitrol; warm aromatics, with a proportion of rhubarb, infused in wine, and such like. diet ought to be dry and nourishing, such as is recomded in the beginning of the Chapter; and he should as much exercise as he can bear without fatigue. He hld wear flannel next his skin, and make daily use of fflesh brush.

CHAP. XXXVIII.

OF THE GOUT.

"HERE is no disease which shews the imperfection of medicine, or sets the advantages of temperance and ccise in a stronger light, than the gout. Excess and idleare the true sources from whence it originally sprung, all who would avoid it must be *active* and *tempe*-

though idleness and intemperance are the principal tes of the gout, yet many other things may contribute ting on the disorder in those who are not, and to iner a paroxysm in those who are subject to it; as intense by; too free an use of acidulated liquors; night-watchgrief or uneasiness of mind; an obstruction or defect my of the customary discharges, as the menses, sweating ne feet, perspiration, &c.

YMPTOMS.—A fit of the gout is generally preceded ndigestion, drowsiness, belching of wind, a slight headsickness, and sometimes vomiting. The patient comns of weariness and 'dejection of spirits, and has often in in the limbs, with a sensation as if wind or cold r were passing down the thigh. The appetite is often arkably keen a day or two before the fit, and there is ght pain in passing urine, and sometimes an unvolunshedding of tears. Sometimes these symptoms are h more violent, especially upon the near approach of fit; and some observe, that as is the fever which ushers

Uu

in the gout, so will the fit be; if the fever be short and sharp, the fit will be so likewise; if it be feeble, long, and lingering, the fit will be such also. But this observation can only hold with respect to very regular fits of the gout.

The regular gout generally makes its attack in the spring or beginning of winter, in the following manner: About two or three in the morning, the patient is seized with a pain in his great toe, sometimes in the heel, and at othe times in the ancle or calf of the leg. This pain is accompanied with a sensation as if cold water were poured upor the part, which is succeeded by a shivering, with some degree of fever. Afterwards the pain increases, and fixing among the small bones of the foot, the patient feels all the different kinds of torture, as if the part were stretched, burn squeezed, gnawed, or torn in pieces, &c. The part a length becomes so exquisitely sensible, that the patien cannot bear to have it touched, or even suffer any person to walk across the room.

The patient is generally in exquisite torture for twent four hours, from the time of the coming on of the fit : h then becomes easier, the part begins to swell, appears red and is covered with a little moisture. Towards mornin he drops asleep, and generally falls into a gentle breath ing sweat. This terminates the first paroxysm, a num ber of which constitutes a fit of the gout; which is long er or shorter according to the patient's age, strength, th season of the year, and the disposition of the body to thi disease.

The patient is always worst towards night, and easie in the morning. The paroxysms however generally groumilder every day, till at length the disease is carried of by perspiration, urine, and the other evacuations. It some patients this happens in a few days; in others, is requires weeks, and in some, months, to finish the fit Those whom age and frequent fits of the gout have great by debilitated, seldom get free from it before the approact of summer, and sometimes not till it be pretty far advanced.

REGIMEN .- As there are no medicines yet know

t will cure the gout, we shall confine our observations effy to regimen, both in and out of the fit.

In the fit, if the patient be young and strong, his diet the to be thin and cooling, and his drink of a diluting ure; but where the constitution is weak, and the panet has been accustomed to live high, this is not a proper the to retrench. In this case he must keep nearly to his al diet, and should take frequently a cup of strong ne-, or a glass of generous wine. Wine-whey is a very per drink in this case, as it promotes the perspiration thout greatly heating the patient. It will answer this pose better if a tea-spoonful of *sal volatile oleosum*, or spiof hartshorn, be put into a cup of it twice a-day. It likewise be proper to give at bed-time a tea-spoonful the volatile tincture of *guaiacum* in a large draught of rm wine-whey. This will greatly promote perspiration bough the night.

Its the most safe and efficacious method of discharging gouty matter is by perspiration, this ought to be kept by all means, especially in the affected part. For this pose the leg and foot should be wrapt in soft flannel, or wool. The last is most readily obtained, and ms to answer the purpose better than any thing else. e people of Lancashire look upon wool as a kind of cific in the gout. They wrap a great quantity of it ut the leg and foot affected, and cover it with a skin soft dressed leather. This they suffer to continue for nt or ten days, and sometimes for a fortnight or three ks, or longer, if the pain does not cease. I never w any external application answer so well in the gout. uve often seen it applied when the swelling and inflamtion were very great, with violent pain, and have nd all these symptoms relieved by it in a few days. wool which they use is generally greased, and cardor combed. They chuse the softest which can be had, seldom or never remove R till the fit be entirely gone

The patient ought likewise to be kept quiet and easy ing the fit. Every thing that affects the mind disturbs paroxysm, and tends to throw the gout upon the pler parts. All external applications that repel the matter are to be avoided as death. They do not cure the disease, but remove it from a safer to a more dangerous part of the body, where it often proves fatal. A fit of the gout is to be considered as Nature's method of removing something that might prove destructive to the body, and all that we can do, with safety, is to promote her intentions, and to assist her in expelling the enemy in her own way. Evacuations by bleeding, stool, &c. are likewise to be used with caution ; they do not remove the cause of the disease, and sometimes by weakening the patient prolong the fit : but where the constitution is able to bear it, it will be of use to keep the body gently open by diet, or very mild laxative medicines.

Many things will indeed shorten a fit of the gout, and some will drive it off altogether : but nothing has yet been found which will do this with safety to the patient. In pain we eagerly grasp at any thing that promises immediate ease, and even hazard life itself for a temporary relief This is the true reason why so many infallible remedie have been proposed for the gout, and why such numbers have lost their lives by the use of them. It would be as prudent to stop the small-pox from rising, and to drive them into the blood, as to attempt to repel the gouty matter after it has been thrown upon the extremities. The latter is as much an effort of Nature to free herself from an of fending cause as the former, and ought equally to be promoted.

When the pain however is very great, and the patien is restless, thirty or forty drops of laudanum, more o less, according to the violence of the symptoms, may be taken at bed-time. This will ease the pain, procure rest promote perspiration, and forward the crisis of the dis ease.

After the fit is over, the patient ought to take a gentle dose or two of the bitter tincture of rhubarb, or some other warm stomachic purge. He should also drink a weak infusion of stomachic bitters in small wine or ale as the Peruvian bark, with cinnamon. Virginian snake root, and orange peel. The diet at this time should be light, but nourishing, and gentle exercise ought to be taken on horseback, or in a carriage. Out of the fit, it is in the patient's power to do many ngs towards preventing a return of the disorder, or renring the fit, if it should return, less severe. This, hower, is not to be attempted by medicine. I have frequentknown the gout kept off for several years by the Perun bark and other astringent medicines; but in all the ses where I had occasion to see this tried, the persons of suddenly, and, to all appearance, for want of a regular of the gout. One would be apt, from hence, to conclude, at a fit of the gout, to some constitutions, in the decline life, is rather salutary than hurtful.

Though it may be dangerous to stop a fit of the gout by dicine, yet if the constitution can be so changed by diet I exercise, as to lessen or totally prevent its return, there rtainly can be no danger in following such a course. It well known, that the whole habit may be so altered by a oper regimen, as quite to eradicate this disease; and those ly who have sufficient resolution to persist in such a course we reason to expect a cure.

The course which we would recommend for preventing e gout, is as follows: In the first place, *universal tempercce*. In the next place, *sufficient exercise* *. By this we not mean sauntering about in an indolent manner, but your, sweat, and toil. These only can render the huyours wholesome, and keep them so. Going early to bed, d1 rising betimes, are also of great importance. It is likese proper to avoid night studies, and all intense thought, the supper should be light, and taken early. All strong uors, especially generous wines and sour punch, are to be poided.

We would likewise recommend some doses of magnesia ba and rhubarb to be taken every spring and autumn; d afterwards a course of stomachic bitters, as tansey or ter-trefoil tea, an infusion of gentian and camomile wers, or a decoction of burdock root, &c. Any of ese, or an infusion of any wholesome bitter that is more reeable to the patient, may be drunk for two or three

* Some make a secret of curing the gout by *muscular exercise*. This ret, however, is as old as Celsus, who strongly recommended that mode cure; and whoever will submit to it, in the fullest extent, may expect reap solid and permanent advantages.

OF THE GOUT.

weeks in March and October twice a-day. An issue or perpetual blister has a great tendency to prevent the gout. If these were more generally used in the decline of life, they would not only often prevent the gout, but also other chronic maladies. Such as can afford to go to Bath, will find great benefit from bathing and drinking the water. It both promotes digestion, and invigorates the habit.

Though there is little room for medicine during a regular fit of the gout, yet when it leaves the extremities, and falls on some of the internal parts, proper applications to recal and fix it become absolutely necessary. When the gout affects the head, the pain of the joints ceases, and the swelling disappears, while either severe head-ach, drowsiness, trembling, giddiness, convulsions, or delirium come on. When it seizes the lungs, great oppression, with cough and difficulty of breathing, ensue. If it attacks the stomach, extreme sickness, vomiting, anxiety, pain in the epigastric region, and total loss of strength, will succeed.

When the gout attacks the head or lungs, every method must be taken to fix it in the feet. They must be frequently bathed in warm water, and acrid cataplasms applied to the soles. Blistering-plasters ought likewise to be applied to the ancles or calves of the legs. Bleeding in the feet or ancles is also necessary, and warm stomachic purges The patient ought to keep in bed for the most part, if there be any signs of inflammation, and should be very careful not to catch cold.

If it attacks the stomach with a sense of cold, the most warm cordials are necessary; as strong wine boiled up with cinnamon or other spices; cinnamon-water; peppermint-water; and even brandy or rum. The patien should keep his bed, and endeavour to promote a sweat by drinking warm liquors; and if he should be troubled with a nausea, or inclination to vomit, he may drink camomile-tea, or any thing that will make him vomit freely.

When the gout attacks the kidneys, and imitates gravelpains, the patient ought to drink freely of a decoction of marsh-mallows, and to have the parts fomented with warm water. An emollient clyster ought likewise to be

342

en, and afterwards an opiate. If the pain be very dent, twenty or thirty drops of laudanum may be taken 1 cup of the decoction.

ersons who have had the gout should be very attentive any complaints that may happen to them about the e when they have reason to expect a return of the fit. e gout imitates many other disorders, and by being taken for them, and treated improperly, is often dited from its regular course, to the great danger of the ient's life.

Those who never had the gout, but who, from their sstitution or manner of living, have reason to expect ought likewise to be very circumspect with regard to hirst approach. If the disease, by wrong conduct or proper medicines, be diverted from its proper course, miserable patient has a chance to be ever after tornted with head achs, coughs, pain of the stomach and estines; and to fall at last a victim to its attack uponne of the more noble parts.

OF THE RHEUMATISM.

THIS disease has often a resemblance to the gout. It erally attacks the joints with exquisite pain, and is etimes attended with inflammation and swelling. It nost common in the spring, and towards the end of umn. It is usually distinguished into acute and chronic; he rheumatism with and without a fever.

AUSES.—The causes of a rheumatism are frequentthe same as those of an inflammatory fever, viz. an tructed perspiration, the immoderate use of strong lirs, and the like. Sudden changes of the weather, and quick transitions from heat to cold, are very apt to occathe rheumatism. The most extraordinary case of a umatism that I ever saw, where almost every joint of body was distorted, was a man who used to work one t of the day by the fire, and the other part of it in water. Very obstinate rheumatisms have likewise n brought on by persons not accustomed to it, allowing ir feet to continue long wet. The same effects are often produced by wet clothes, damp beds, sitting or ly. ing on the damp ground, travelling in the night, &c.

The rheumatism may likewise be occasioned by excessive evacuations, or the stoppage of customary discharges, It is often the effect of chronic diseases, which vitiate the humours; as the scurvy, the *lues venera*, obstinate autumnal agues, &c.

The rheumatism prevails in cold, damp, marshy countries. It is most common among the poorer sort of peasants, who are ill clothed, live in low damp houses, and eat coarse unwholesome food, which contains but little nourishment, and is not easily digested.

SYMPTOMS.—The *acute* rheumatism commonly be gins with weariness, shivering, a quick pulse, restless ness, thirst, and other symptoms of fever. Afterwards the patient complains of flying pains, which are increased by the least motion. These at length fix in the joints, which are often affected with swelling and inflammation. If blood be let in this disease, it has generally the same appearance as in the pleurisy.

In this kind of rheumatism the treatment of the patien is nearly the same as in an acute or inflammatory fever If he be young and strong, bleeding is necessary, which may be repeated according to the exigencies of the case The body ought likewise to be kept open by emollien clysters, or cool opening liquors; as decoctions of tama rinds, cream of tartar whey, senna-tea; and the like The diet should be light, and in small quantity, consist ing chiefly of roasted apples, groat-gruel, or weak chick en-broth. After the feverish symptoms have abated, the pain still continues, the patient must keep his bed and take such things as promote perspiration; as wine whey, with spiritus Mindereri, &c. He may likewis take, for a few nights, at bed time, in a cup of wind whey, a drachm of the cream of tartar, and half a drachn of gum guaiacum in powder.

Warm bathing, after proper evacuations, has often a exceeding good effect. The patient may either be put in to a bath of warm water, or have cloths wrung out of i applied to the parts affected. Great care must be take that he do not catch cold after bathing.

344

The chronic rheumatism is seldom attended with any siderable degree of fever, and is generally confined to e particular part of the body, as the shoulders, the k, or the loins. There is seldom any inflammation or lling in this case. Persons in the decline of life are tt subject to the chronic rheumatism. In such patients ten proves extremely obstinate, and sometimes incurable. in this kind of rheumatism the regimen should be nearhe same as in the acute. Cool and diluting diet, conng chiefly of vegetable substances, as stewed prunes, iled apples, currants of gooseberries boiled in milk, ost proper. Arbuthnot says, " If there be a specific liment for the rheumatism, it is certainly whey;" adds, " That he knew a person subject to this disease, could never be cured by any other method but a diet, "hey and bread." He likewise says, " That cream of ar in water gruel, taken for several days, will ease rheuic pains considerably." This I have often experienced, found it always more efficacious when joined with 4-guaiacum, as already directed. In this case the pamay take the dose formerly mentioned twice a-day, llikewise a tea-spoonful of the volatile tincture of gumacum, at bed-time, in wine-whey.

his course may be continued for a few weeks, or longer, e case proves obstinate, and the patient's strength will nit. It ought then to be omitted for a few days, and ated again. At the same time leeches or a blistering ter may be applied to the part affected. What I have rally found answer better than either of these, in obte fixed rheumatic pains, is the warm plaster *. I have vise known a plaster of Burgundy pitch worn for some on the part affected give great relief in rheumatic s. My ingenious friend, Dr Alexander of Edinburgh, he has trequently cured very obstinate rheumatic s by rubbing the part affected with the tincture of candes. When the common tincture did not succeed, sed it of a double or treble strength. Cupping uponpart affected is likewise often very beneficial, and is tly preferable to the application of leeches.

> * See Appendix, Warm Plaster. X x

Though this disease may not seem to yield to medicines for some time, yet they ought still to be persisted in. Perons who are subject to frequent returns of the rheumatism, will often find their account in using medicines, whether they be immediately affected with the disease or not. The chronic rheumatism is similar to the gout in this respect, that the most proper time for using medicines to extirpate it, is when the patient is most free from the disorder.

To those who can afford the expence, I would recommend the warm baths of Buxton or Matlock in Derbyshire. These have often, to my knowledge, cured very obstinate rheumatisms, and are always safe either in or out of the fit. When the rheumatism is complicated with scorbutic complaints, which is not seldom the case, the Harrowgate waters and those of Moffat, are proper. They should both be drunk and used as a warm bath.

There are several of our own domestic plants which may be used with advantage in the rheumatism. One of the best is the white mustard. A table-spoonful of the seed of this plant may be taken twice or thrice a day, in a glass o water or small wine. The water-trefoil is likewise of grea use in this complaint. It may be infused in wine or ale or drunk in form of tea. The ground-ivy, camomile, and several other bitters, are also beneficial, and may be used in the same manner. No benefit however is to be expect ed from these, unless they be taken for a considerable time Excellent medicines are often despised in this disease, be cause they do not perform an immediate cure ; wherea nothing would be more certain than their effect, were the duly persisted in. Want of perseverance in the use of medicines is one reason why chronic diseases are so seldon cured.

Cold bathing, especially in salt water, often cures the rheumatism. We would also recommend riding on horse back, and wearing flannel next the sk n Issues are like wise very proper, especially in chronic cases. If the pair affects the shoulders, an issue may be made in the arm but if it affects the loins, it should be put into the leg of thigh.

Persons afflicted with the scurvy are very subject 1

umatic complaints. The best medicines in this case bitters and mild purgatives. These may either be taseparately or together, as the patient inclines. An ce of Peruvian bark, and half an ounce of rhubarb owder, may be infused in a bottle of wine; and one, or three wine glasses of it taken daily, as shall be id necessary for keeping the body gently open. In ss where the bark itself proves sufficiently purgative, irhubarb may be omitted.

auch as are subject to frequent attacks of the rheumaought to make choice of a dry, warm situation, to d the night air, wet clothes, and wet feet, as much as ible. Their clothing should be warm, and they should r flannel next their skin, and make frequent use of the n-brush.

CHAP. XXXIX.

OF THE SCURVY.

[•]HIS disease prevails chiefly in cold northern countries, especially in low damp situations, near large marshes, great quantities of stagnating water. Sedentary people, dull melancholy disposition, are most subject to it. It wes often fatal to sailors on long voyages, particularly hips that are not properly ventilated, have many people board, or where cleanliness is neglected.

t is not necessary to mention the different species into ch this disease has been divided, as they differ from one ther chiefly in degree. What is called the *land scurvy*, vever, is seldom attended with those highly putrid ptoms which appear in patients who have been long at and which, we presume, are rather owing to confined want of exercise, and the unwholesome food eaten by ors on long voyages, than to any specific difference in disease.

CAUSES.—The scurvy is occasioned by cold moist air : the long use of salted or smoke dried provisions, or any id of food that is hard of digestion, and affords little

OF THE SCURVY.

nourishment. It may also proceed from the suppression of customary evacuations; as the menses, the hæmorrhoidal flux, &c. It is sometimes owing to a hereditary taint, in which case a very small cause will excite the latent disorder. Grief, fear, and other depressing passions, have a great tendency both to excite and aggravate this disease. The same observation holds with regard to neglect of cleanliness; bad clothing; the want of proper exercise; confined air; unwholesome food; or any disease which greatly weakens the body, or vitiates the humours.

SYMPTOMS .- This disease may be known by unusual weariness, heaviness, and difficulty of breathing, especially after motion; rottenness of the gums, which are apt to bleed on the slightest touch; a stinking breath; frequent bleeding at the nose; crackling of the joints; difficulty of walking; sometimes a swelling, and sometimes a falling away of the legs, on which there are livid, yellow, or violetcoloured spots; the face is generally of a pale or leaden colour. As the disease advances, other symptoms come on; as rottenness of the teeth, hæmorrhages, or discharges of blood from different parts of the body, foul obstinate ulcers, pains in various parts, especially about the breast, dry scaly eruptions all over the body, &c. At last, wasting or hectic fever comes on, and the miserable patient is often carried off by a dysentery, a diarrhœa, a dropsy the palsy, fainting fits, or a mortification of some of the bowels.

CURE.—We know no way of curing this disease but by pursuing a plan directly opposite to that which brings it on. It proceeds from a vitiated state of the humous, occasioned by errors in diet, air, or exercise; and this cannot be removed but by a proper attention to these important articles.

If the patient has been obliged to breathe a cold, damp, or confined air, he should be removed, as soon as possible, to a dry, open, and moderately warm one. If there is reason to believe that the disease proceeds from a sedentary life, or depressing passions, as grief, fear, &c. the patient must take daily as much exercise in the open air as he can bear, and his mind should be diverted by cheerful company and other amusements. Nothing has a greater lency either to prevent or remove the disease, than stant cheerfulness and good humour. But this, alas! is om the lot of persons afflicted with the scurvy; they are erally surly, peevish, and morose.

When the scurvy has been brought on by a long use of ed provisions, the proper medicine is a diet consisting fly of fresh vegetables; as oranges, apples, lemons, es, tamarinds, water-cresses, scurvy-grass, brook-lime, The use of these, with milk, pot herbs, new bread, fresh beer or cyder, will seldom fail to remove a scurvy his kind, if taken before it be too far advanced; but to e this effect, they must be persisted in for a considerable when fresh vegetables cannot be obtained, pickled reserved ones may be used; and where these are wantrecourse must be had to the chemical acids. All the eent's food and drink should in this case be sharpened in cream of tartar, elixir of vitriol, vinegar, or the spirit eea-salt.

These things, however, will more certainly prevent than e the scurvy; for which reason seafaring people, espey on long voyages, ought to lay in plenty of them. bages, onions, gooseberries, and many other vegetables. , be kept a long time by pickling, preserving, &c. and en these fail, the chemical acids, recommended above. ch will keep for any length of time, may be used. We e reason to believe, if ships were well ventilated, had d store of fruits, greens, cyder, &c. laid in, and if proregard were paid to cleanliness and warmth, that sailors ild be the most healthy people in the world, and would om suffer either from the scurvy or putrid fevers, which so fatal to that useful set of men; but it is too much temper of such people to despise all precaution; they not think of any calamity till it overtakes them, when too late to ward off the blow.

t must, indeed, be owned, that many of them have it in their power to make the provision we are speaking but in this case it is the duty of their employers to ce it for them; and no man ought to engage in a long age without having these articles secured.

have often seen very extraordinary effects in the landrvy from a milk diet. This preparation of Nature is a mixture of animal and vegetable properties, which of all others is the most fit for restoring a decayed constitution, and removing that particular acrimony of the humours, which seems to constitute the very essence of the scurvy, and many other diseases. But people despise this wholesome and nourishing food, because it is cheap, and devour with greediness, flesh, and fermented liquors, while milk is only deemed fit for their hogs.

The most proper drink in the scurvy is whey or butter-When these cannot be had, sound cyder, perry, milk. or spruce-beer, may be used. Wort has likewise been found to be a proper drink in the scurvy, and may be used at sea, as malt will keep during the longest voyage. A decoction of the tops of the spruce fir is likewise proper. It may be drunk in the quantity of an English pint twice aday. Tar-water may be used for the same purpose, or decoctions of any of the mild mucilaginous vegetables; as sarsaparilla, marsh mallow roots, &c. Infusions of the bitter-plants, as ground-ivy, the lesser centaury, marshtrefoil, &c. are likewise beneficial. I have seen the peasants in some parts of Britain express the juice of the last mentioned plant, and drink it with good effect in those foul scorbutic eruptions with which they are often troubled in the spring season.

Harrowgate-water is certainly an excellent medicine in the land-scurvy. I have often seen patients who had been reduced to the most deplorable condition by this disease, greatly relieved by drinking the sulphur-water, and bathing in it. The chalybeate-water may also be used with advantage, especially with a view to brace the stomach after drinking the sulphur-water, which, though it sharpens the appetite, never fails to weaken the powers of digestion.

A slight degree of scurvy may be carried off by frequently sucking a little of the juice of a bitter orange, or a lemon. When the disease affects the gums only, this practice, if continued for some time, will generally carry it off. We would however recommend the bitter orange as greatly preferable to lemon; it seems to be as good a medicine, and is not near so hurtful to the stomach. Per-

OF THE SCURVY.

s our own sorrel may be little inferior to either of

Il kinds of sallad are good in the scurvy, and ought be eaten very plentifully, as spinage, lettuce, parsley, ry, endive, radish, dandelion, &c. It is amazing to thow soon fresh vegetables in the spring cure the brute mals of any scab or foulness which is upon their skins. reasonable to suppose that their effects would be as it upon the human species, were they used in proper ntity for a sufficient length of time.

have sometimes seen good effects in scorbutic comnts of very long standing, from the use of a decoction me roots of water-dock. It is usually made by boiling a and of the fresh root in six English pints of water, till ato one-third of it be consumed. The dose is from half a to a whole pint of the decoction every day. But in the cases where I have seen it prove beneficial, it was are much stronger, and drunk in larger quantities. The set way, however, is for the patient to begin with small s, and increase them both in strength and quantity, as finds his stomach will bear it. It must be used for a iderable time. I have known some take it for many ths, and have been told of others who had used it for rral years, before they were sensible of any benefit, but nevertheless were cured by it at length.

the leprosy, which was so common in this country ago, seems to have been near a-kin to the scurvy. aps its appearing so seldom now, may be owing to inhabitants of Britain eating more vegetable food than terly, living more upon tea and other diluting diet, g less salted meat, being more cleanly, better lodged clothed, &c.—For the cure of this disease we would remend the same course of diet and medicine as in the vy.

OF THE SCROPHULA, OR KING'S EVIL.

HIS disease chiefly affects the glands, especially those ne neck. Children and young persons of a sedentary are very subject to it. It is one of those diseases the may be removed by proper regimen, but seldom yields to medicine. The inhabitants of cold, damp, marshy countries are most liable to the scrophula.

CAUSES .- This disease may proceed from a hereditary taint, from a scrophulous nurse, &c. Children who have the misfortune to be born of sickly parents, whose constitutions have been greatly injured by the pox, or other chronic diseases, are apt to be affected with the scrophula. It may likewise proceed from such diseases as weaken the habit or vitiate the humours, as the small-pox, measles, &c. External injuries, as blows, bruises, and the like, some times produce scrophulous ulcers; but we have reason to believe, when this happens, that there has been a predisposition in the habit to this disease. In short, whatever tends to vitiate the humours or relax the solids, paves the way to the scrophula; as the want of proper exercise too much heat or cold, confined air, unwholesome food bad water, the long use of poor, weak, watery aliments the neglect of cleanliness, &c. Nothing tends more to induce this disease in children than allowing them to con tinue long wet *.

SYMPTOMS.—At first small knots appear under the chin or behind the ears, which gradually increase in num ber and size, till they form one large hard tumour. This often continues for a long time without breaking, and when it does break, it only discharges a thin *sanies*, o watery humour. Other parts of the body are likewiss liable to its attack, as the arm-pits, groins, feet, hands eyes, breasts, &c. Nor are the internal parts exemp from it. It often affects the lungs; liver, or spleen ; and I have frequently seen the glands of the mysentery greatly enlarged by it.

Those obstinate ulcers which break out upon the fee and hands with swelling and little or no redness, are of the scrophulous kind. They seldom discharge good may ter, and are exceedingly difficult to cure. The whin swellings of the joints seem likewise to be of this kind They are with difficulty brought to a suppuration, an when opened they only discharge a thin ichor. There

* The scrophula, as well as the rickets, is found to prevail in larg manufacturing towns, where people live gross, and lead sedentary live

353

ot a more general symptom of the scrophula than a swellg of the upper lip and nose.

REGIMEN.—As this disease proceeds, in a great meare, from relaxation, the diet ought to be generous and urishing, but at the same time light and of easy digesn; as well termented bread, made of sound grain, the sh and broth of young animals, with now and then a ass of generous wine, or good ale. The air ought to be cen, dry, and not too cold, and the patient should take much exercise as he can bear. This is of the utmost portance. Children who have sufficient exercise are selm troubled with the scrophula.

MEDICINE.—The vulgar are remarkably credulous with gard to the cure of the scrophula; many of them believg in the virtue of the royal touch, that of the seventh son, c. The truth is, we know but little either of the nature or re of this disease, and where reason or medicines fail, perstition always comes in their place. Hence it is, that diseases which are the most difficult to understand, we merally hear of the greatest number of miraculous cures ing performed. Here, however, the deception is easiaccounted for: The scrophula, at a certain period of e., often cures of itself; and if the patient happens to touched about this time, the cure imputed to the touch, d not to Nature, who is really the physician. In the me way the insignificant nostrums of quacks and old omen often gain applause when they deserve none.

There is nothing more pernicious than the custom of ring children in the scrophula with strong purgative edicines. People imagine it proceeds from humours nich must be purged off, without considering that these rgatives increase the debility and aggravate the disease. has indeed been found, that keeping the body gently en for some time, especially with sea-water, has a good ect; but this should only be given in gross habits, and such quantity as to procure one, or at most two stools ery day.

Bathing in the salt water has likewise a very good effect, becially in the warm season. I have often known a urse of bathing in salt-water, and drinking it in such antities as to keep the body gently open, cure a serephula, after many other medicines had been tried in vain. When salt-water cannot be obtained, the patient may be bathed in fresh water, and his body kept open by small quantities of salt and water, or some other mild purgative.

Next to cold bathing, and drinking the salt-water, we would recommend the Peruvian bark. The cold bath may be used in summer, and the bark in winter. To an adult half a drachm of the bark in powder may be given in a glass of red wine four or five times a day. Children, and such as cannot take it in substance, may use the decoction made in the following manner:

Boil an ounce of Peruvian bark and a drachm of Winter's bark, both grossly powdered, in an English quart of water to a pint: towards the end half an ounce of sliced liquorice-root, and a handful of raisins may be added, which will both render the decoction less disagreeable, and make it take up more of the bark. The liquor must be strained, and two, three, or four table-spoonfuls according to the age of the patient, given three times aday.

The Moffat and Harrowgate waters, especially the lat ter, are likewise very proper medicines in the scrophula They ought not however to be drunk in large quantities but should be taken so as to keep the body gently open, and must be used for a considerable time.

The hemlock may sometimes be used with advantag in the scrophula. Some lay it down as a general rule, that the sea-water is most proper before there are any sup puration or symptoms of *tabes*; the Peruvian bark, whe there are running sores, and a degree of hectic fever; an the hemlock in old inveterate cases, approaching to the scirrhous or cancerous state. Either the extract or the fresh juice of this plant may be used. The dose must be small at first, and increased gradually as far as the stomace is able to bear it.

External applications are of little use. Before the to mour breaks, nothing ought to be applied to it, unless piece of flannel, or something to keep it warm. After breaks, the sore may be dressed with some digestiv continent. What I have always found to answer bes

ras the yellow basilicon, mixed with about a sixth or eighth art of its weight of red percipitate of mercury. The sore may be dressed with this twice a-day; and if it be very ingous, and does not digest well, a larger proportion of the ercipitate may be added.

Medicines which mitigate this disease, though they do not cure it, are not to be despised. If the patient can be cept alive by any m ans till he arrives at the age of puberit, he has a great chance to get well; but if he does not becover at this time, in all probability he never will.

There is no malady which parents are so apt to commuicate to their offspring as the scrophula, for which reason cople ought to beware of marrying into families affected with this disease.

For the means of preventing the scrophula, we must rerr the reader to the observations on nursing, at the begining of the book.

OF THE ITCH.

THOUGH this disease is commonly communicated by inction, yet it seldom prevails where due regard is paid to eanliness, fresh air, and wholesome diet. It generally apears in form of small watery pustules, first about the wrists, between the fingers; afterwards it affects the arms, legs, ighs, &c. These pustules are attended with an intolerable ching, especially when the patient is warm a-bed, or sits the fire. Sometimes, indeed, the skin is covered with rge blotches, or scabs, and at other times with a white urf, or scaly eruption. This last is called the dry itch, id is the most difficult to cure.

The itch is seldom a dangerous disease, unless when it is ndered so by neglect, or improper treatment. If it be ffered to continue too long, it may vitiate the whole mass humours; and, if it be suddenly drove in, without proper acuations, it may occasion fevers, inflammations of the scera, or other internal disorders.

The best medicine yet known for the itch is sulphur, hich ought to be used both externally and internally. he parts most affected may be rubbed with an ointment ade of the flower of sulphur, two ounces; crude salammoniac finely powdered, two drachms; hog's lard, or butter, four ounces. If a scruple or half a drachm of the essence of lemon be added, it will entirely take away the disagreeable smell. About the bulk of a nutmeg of this may be rubbed upon the extremities at bed-time twice or thrice a-week. It is seldom necessary to rub the whole body; but when it is, it ought not to be done all at once, but by turns, as it is dangerous to stop too many pores at the same time.

Before the patient begins to use the ointment, he ought, if he be of a full habit, to bleed or take a purge or two. It will likewise be proper, during the use of it, to take every night and morning as much of the flower of brimstone and cream of tartar, in a little treacle or new milk, as will keep the body gently open. He should beware of catching cold, should wear more clothes than usual, and take every thing warm. The same clothes, the linen excepted, ought to be worn all the time of using the ointment; and such clothes as have been worn while the patient was under the disease, are not to be used again, unless they have been fumigated with brimstone, and thoroughly cleaned, otherwise they will communicate the infection anew *.

I never knew brimstone, when used as directed above, fail to cure the itch; and I have reason to believe, that, if duly persisted in, it never will fail; but if it be only used once or twice, and cleanliness neglected, it is no wonder if the disorder returns. The quantity of ointment mentioned above will generally be sufficient for the cure of one person: but, if any symptoms of the disease should appear again, the medicine may be repeated. It is both more safe and efficacious when persisted in for a considerable time, than when a large quantity is applied at once. As most people dislike the smell of sulphur, they may use in its place the powder of white hellebore root

* Sir John Pringle observes, that though this disease may seem trilling, there is no one in the army that is more troublesome to cure, as the infection often lurks in clothes, &c. and breaks out a second, or even a third time. The same inconveniency occurs in private families, unless particular regard is paid to the changing or cleaning of their clothes, which last is by no means an easy operation. ide up into an ointment, in the same manner, which Il seldom fail to cure the itch.

People ought to be extremely cautious lest they take aer eruptions for the itch; as the stoppage of these y be attended with fatal consequences. Many of the ptive disorders to which children are liable, have a near emblance to this disease; and I have often known innts killed by being rubbed with greasy ointments that de these eruptions strike suddenly in, which Nature H thrown out to preserve the patient's life, or prevent me other malady.

Much mischief is likewise done by the use of merry in this disease. Some persons are so fool-hardy to wash the parts affected with a strong solution of corrosive sublimate. Others use the mercurial ointmt, without taking the least care either to avoid cold, pp the body open, or observe a proper regimen. consequences of such conduct may be easily guess-

I have known even the mercurial girdles produce l effects, and would advise every person, as he values lhealth, to beware how he uses them. Mercury ought ver to be used as a medicine without the greatest care. corant people look upon these girdles as a kind of charm, hout considering that the mercury enters the body.

tt is not to be told what mischief is done by using merial ointment for curing the itch and killing vermin; it is unnecessary for either : the former may be always we certainly cured by sulphur, and the latter will never found where due regard is paid to cleanliness.

Those who would avoid this detestable disease ought to vare of infected persons, to use wholesome food, and to ly universal cleanliness *.

The itch is now by cleanliness banished from every genteel family ritain. It still however prevails among the poorer sort of peasants cotland, and among the manufacturers in England. These are not sufficient to keep the seeds of the disease alive, but to spread the tion among others. It were to be wished that some effectual mecould be devised for extirpating it altogether. Several country symen have told me, that by getting such as were infected cured. strongly recommending an attention to cleanliness, they have banishne itch entirely out of their parishes. Why might not others do the

CHAP. XL.

OF THE ASTHMA.

THE asthma is a disease of the lungs, which seldon admits of a cure. Persons in the decline of life an most liable to it. It is distinguished into the moist and dry or humoural and nervous. The former is attended with expectoration or spitting; but in the latter the patient sel dom spits, unless sometimes a little tough phlegm by the mere force of coughing.

CAUSES.—The asthma is sometimes hereditary. I may likewise proceed from a bad formation of the breast the fumes of metals or minerals taken into the lungs; vio lent exercise, especially running; the obstruction of cus tomary evacuations, as the menses, hæmorrhoids, &c the sudden retrocession of the gout, or striking in of e ruptions, as the small-pox, measles, &c. violent passion of the mind, as sudden fear or surprise. In a word, th disease may proceed from any cause that either impede the circulation of the blood through the lungs, or prevent their being duly expanded by the air.

SYMPTOMS.—An asthma is known by a quick labor rious breathing, which is generally performed with a kin of wheezing nose. Sometimes the difficulty of breathin is so great, that the patient is obliged to keep in an erec posture, otherwise he is in danger of being suffocated A fit or paroxysm of the asthma generally happens after a person has been exposed to cold easterly winds, or ha been abroad in thick foggy weather, or has got wet, of continued long in a damp place under ground, or has to ken some food which the stomach could not digest, a pastries, toasted cheese, or the like.

The paroxysm is commonly ushered in with listlessnes want of sleep, hoarseness, a cough, belching of wind, sense of heaviness about the breast, and difficulty breathing. To these succeed heat, fever, pain of th

OF THE ASTHMA.

d, sickness, and nausea, great oppression of the breast, poitation of the heart, a weak, and sometimes intermitting se, an involuntary flow of tears, bilious vomitings, &c. The symptoms grow worse towards night; the patient asier when up than in bed, and is very desirous of cool

LEGIMEN.—The food ought to be light, and of easy estion. Boiled meats are to be preferred to roasted, the flesh of young animals to that of old. All windy II, and whatever is apt to swell in the stomach, is to be ided. Light puddings, white broths, and ripe fruits red, boiled, or roasted, are proper. Strong liquors of kinds, especially malt-liquor, are hurtful. The patient and eat a very light supper, or rather none at all, and and never suffer himself to be long costive. His thing should be warm, especially in the winter-season. tall disorders of the breast are much relieved by keepthe feet warm, and promoting the perspiration, a flannel it or waistcoat, and thick shoes, will be of singular tice.

but nothing is of so great importance in the asthma as es and moderately warm air. Asthmatic people can com bear either the close heavy air of a large town, or sharp, keen atmosphere of a bleak hilly country; a lium therefore between these is to be chosen. The near a large town is often better than at a distance, proed the patient be removed so far as not to be affected the smoke. Some asthmatic patients indeed breathe eain town than in the country; but this is seldom the , especially in towns where much coal is burnt. Asthic persons who are obliged to be in town all day, ht at least to sleep out of it. Even this will often prove reat service. Those who can afford it ought to travel a warmer climate. Many asthmatic who cannot live in ain, enjoy very good health in the south of France, tugal, Spain, or Italy.

xercise is likewise of very great importance in the ma, as it promotes the digestion, preparation of the od, &c. The blood of asthmatic persons is seldom ' prepared, owing to the proper action of the lungs ig impeded. For this reason, such people ought daily to take as much exercise, either on foot, horseback, or in a carriage, as they can bear.

MEDICINE .- Almost all that can be done by medi cine in this disease, is to relieve the patient when seized with a violent fit. This indeed requires the greatest expedition as the disease often proves suddenly fatal. In the par oxysm or fit, the body is generally bound ; a purging clyster with a solution of asafætida, ought therefore to be admi nistered, and, if there be occasion, it may be repeated two o three times. The patient's feet and legs ought to be im mersed in warm water, and afterwards rubbed with a warr hand, or dry cloth. Bleeding, unless extreme weakness of old age should forbid it, is highly proper. If there be violent spasm about the breast or stomach, warm fomenta tions, or bladders filled with warm milk and water, may b applied to the part affected, and warm cataplasms to th soles of the feet. The patient must drink freely of dilutin liquors, and may take a teaspoonful of the tincture of castor and of saffron mixed together, in a cup of valeriar tea, twice or thrice a-day. Sometimes a vomit has a ver good effect, and snatches the patient, as it were, from the jaws of death. This, however, will be more safe after other evacuations have been premised. A very strong infusio of roasted coffee is said to give ease in an asthmatic pa oxysm.

In the moist asthma, such things as promote expect ration, or spitting, ought to be used; as the syrup squills, gum ammoniac, and such like. A common spoor ful of the syrup, or oxymel of squills, mixed with a equal quantity of einnamon-water, may be taken three four times through the day, and four or five pills may of equal parts of asafœtida and gum-ammoniac, at be time *.

For the convulsive or nervous asthma, antispasmodi

* After copious evacuations, large doses of æther have been fou very efficacious in removing a fit of the asthma. I have likewise know the following mixture produce very happy effects: To four or five of ces of the solution of gum-ammoniac add two ounces of simple cim mon-water, the same quantity of balsamic syrup, and half an ounce paregoric elixir. Of this two table-spoonfuls may be taken every the hours.

OF THE APOPLEXY.

bracers are the most proper medicines. The patient y take a tea-spoonful of the paregoric elixir twice a-. The Peruvian bark is sometimes found to be of use his case. It may be taken in substance, or infused in e. In short, every thing that braces the nerves, or es off spasm, may be of use in nervous asthma. It is n relieved by the use of ass's milk; I have likewise wn cow's milk drunk warm in the morning have a vegood effect in this case.

In every species of asthma, setons and issues have a if effect; they may either be set in the back or side, should never be allowed to dry up. We shall here, ee for all, observe, that not only in asthma, but in it chronic diseases, issues are extremely proper. They both a safe and efficacious remedy; and though they not always cure the disease, yet they will often prolong patient's life.

CHAP. XLI.

OF THE APOPLEXY.

"HE apoplexy is a sudden loss of sense and motion, wherein the patient is to all appearance dead; the tt and lungs however still continue to move. Though disease proves often fatal, yet it may sometimes be reed by proper care. It chiefly attacks sedentary persons gross habit, who use a rich and plentiful diet, and lge in strong liquors. People in the decline of life nost subject to the apoplexy. It prevails most in winespecially in rainy seasons, and very low states of the meter.

AUSES.—The immediate cause of an apoplexy is a pression of the brain, occasioned by an excess of d, or a collection of watery humours. The former lled a sanguine, and the latter a serous apoplexy. It be occasioned by any thing that increases the circuin towards the brain, or prevents the return of the d from the head; as intense study; violent passions *; viewing objects for a long time obliquely; wearing any thing too tight about the neck; a rich and luxurious diet; suppression of urine; suffering the body to cool suddenly after having been greatly heated; continuing long in a warm or a cold bath; the excessive use of spice ries or high seasoned food; excess of venery; the sud den striking in of any eruption; suffering issues, se tons, &c. suddenly to dry up, or the stoppage of any customary evacuation; a mercurial salivation pushed too far or suddenly checked by cold; wounds or bruises on the head; long exposure to excessive cold; poisonous exhalations, &c.

SYMPTOMS, and method of cure.—The usual fore runner of an apoplexy are giddiness, pain and swimming of the head; loss of memory; drowsiness; noise in th ears; the night-mare; a spontaneous flux of tears, and la borious respiration. When persons of an apoplectic mak observe these symptoms, they have reason to fear the ap proach of a fit, and should endeavour to prevent it b bleeding, a slender diet, and opening medicines.

In the sanguine apoplexy, if the patient does not di suddenly, the countenance appears florid, the face is swell ed or puffed up, and the blood-vessels, especially about the neck and temples, are turgid; the pulse beats strong the eyes are prominent and fixed, and the breathing is du ficult, and performed with a snorting noise. The excre ments and urine are often voided spontaneously, and the patient is sometimes seized with vomiting.

In this species of apoplexy every method must be take to lessen the force of the circulation towards the heat The patient should be kept perfectly easy and cool. H head should be raised pretty high, and his feet suffered t hang down. His clothes ought to be loosened, especially about the neck, and the fresh air admitted into h

* I knew a woman who in a violent fit of anger was seized with sanguine apoplexy. She at first complained of extreme pain, dr if da gers had been thrust through her head, as she expressed it. Afterwar she became comatose, her pulse sunk very low, and was exceeding slow. By bleeding, blistering, and other evacuations, she was ke alive for about a fortnight. When her head was opened, a large quatity of extravasated blood was found in the keft ventrical of the brain.

OF THE APOPLEXY.

mber. His garters should be tied pretty tight, by which ins the motion of the blood from the lower extremities be retarded. As soon as the patient is placed in a proposture, he should be bled freely in the neck or arm, if there be occasion, the operation may be repeated wo or three hours. A laxative clyster, with plenty of et oil, or fresh butter, and a spoonful or two of comn salt in it may be administered every two hours; and tering-plasters applied between the shoulders, and to calves of the legs.

rs soon as the symptoms are a little abated, and the ent is able to swallow, he ought to drink freely of ce diluting opening liquor, as a decoction of tamarinds liquorice, cream-tartar whey, or common whey with nm of tartar dissolved in it. Or he may take any coolpurge, as Glauber's salt, manna dissolved in an infut of senna, or the like. All spirits and other strong lirs are to be avoided. Even volatile salts held to the ce do mischief. Vomits, for the same reason, ought not be given, nor any thing that may increase the motion the blood towards the head.

In the serous apoplexy, the symptoms are nearly the ce, only the pulse is not so strong, the countenance ess florid, and the breathing less difficult. Bleeding is so necessary here as in the former case. It may howc generally be performed once with safety and advanbut should not be repeated. The patient should be ced in the same posture as directed above, and should be blistering plasters applied, and receive opening clysin the same manner. Purges here are likewise necesin the patient may drink strong balm-tea. If he inclined to sweat, it ought to be promoted by drinksmall wine-whey, or an infusion of carduus benedictus. Plentiful sweat kept up for a considerable time has often tied off a serous apoplexy.

Vhen apoplectic symptoms proceed from opium, or onarcotic substances taken into the stomach, vomits are essary. The patient is generally relieved as soon as he discharged the poison in this way.

ersons of an apoplectic make, or those who have n attacked by it, ought to use a very spare and slea-

722

der diet, avoiding all strong liquors, spiceries, and high seasoned food. They ought likewise to guard against all violent passions, and to avoid the extremes of her and cold. The head should be shaved, and daily wash ed with cold water. The feet ought to be kept warn and never suffered to continue long wet. The body mus be kept open either by food or medicine, and a little bloo may be let every spring and fall. Exercise should by n means be neglected; but it ought to be taken in me deration. Nothing has a more happy effect in preventin an apoplexy than perpetual issues or setons; great can however must be taken not to suffer them to dry up, with out opening others in their stead. Apoplectic persor ought never to go to rest with a full stomach, or to li with their heads low, or wear any thing too tight about their necks.

G, H A P. XLII.

OF COSTIVENESS, AND OTHER AFFECTIONS O THE STOMACH AND BOWELS.

E do not here mean to treat of those astrictions of the bowels which are the symptoms of diseases, a of the colic, the iliac passion, &c. but only to take notic of that infrequency of stools which sometimes happens, an which in some particular constitutions may occasion disease

Costiveness may proceed from drinking rough red wine or other astringent liquors; too much exercise, especial on horseback. It may likewise proceed from a long up of cold insipid food, which does not sufficiently stimula the intestines. Sometimes it is owing to the bile not de cending to the intestines, as in the jaundice; and at othe times it proceeds from diseases of the intestines themselve as a palsy, spasms, torpor, tumours, a cold dry state of th intestines, &c.

Excessive costiveness is apt to occasion pains of the head, vomiting, colics, and other complaints of the boy els. It is peculiarly hurtful to hypochondriac and hyste persons, as it generates wind and other grievous symps. Some people, however, can bear costiveness to a it degree. I know persons who enjoy pretty good th, yet do not go to stool above once a-week, and others above once a-fortnight. Indeed I have heard of some do not go above once a-month.

ersons who are generally costive should live upon a stening and laxative diet, as roasted or boiled apples, ss, stewed prunes, raisins, gruels with currants, butter, by, sugar, and such like. Broths with spinage, leeks, other soft pot-herbs, are likewise proper. Rye-bread, nat which is made of a mixture of wheat and rye toer, ought to be eaten. No person troubled with cosmess should eat white bread alone, especially that which ade of fine flour. The best bread for keeping the body ble is what in some parts of England they call *meslin*. made of a mixture of wheat and rye; and is very agreeto those who are accustomed to it.

ostiveness is increased by keeping the body too warm, by every thing that promotes the perspiration; as wearmannel, lying too long a bed, &c. Intense thought, a sedentary life, are likewise hurtful. All the secreand excretions are promoted by moderate exercise out doors, and by a gay, cheerful, sprightly temper of 11.

the drink should be of an opening quality. All ardent is, austere and astringent wines, as port, claret, &c. in to be avoided. Malt-liquor that is fine, and of a crate strength is very proper. Butter-milk, whey, other watery liquors, are likewise proper, and may be k in turns, as the patient's inclination directs.

hose who are troubled with costiveness, ought, if pos-, to remedy it by diet, as the constant use of medi-, for that purpose is attended with many inconvenienand often with bad consequences. * I never knew

The learned Dr Arbuthnot advises those who are troubled with eness to use animal oils, as fresh butter, cream, marrow, fat broths, ally those made of the internal parts of animals, as the liver, heart, f, &c. He likewise recommends the expressed oils of mild vegetaus olives, almonds, pastaches, and the fruits themselves; all oily nild fruits, as figs; decoctions of mealy vegetables; these lubricate intestines; some saponaceous substances which stimulate gently, any one get into a habit of taking medicine for keepin the body open, who could leave it off. In time the cu tom becomes necessary, and generally ends in a total r laxation of the bowels, indigestion, loss of appetite, was ing of the strength, and death.

When the body cannot be kept open without medicin we would recommend gentle doses of rhubarb to be take twice or thrice a-week. This is not near so injurious the stomach as aloes, jalap, or the other drastic purgative so much in use. Infusions of senna and manna may like wise be taken, or half an ounce of soluble tartar dissolve in water-gruel. About the size of a nutmeg of lenitive electuary taken twice or thrice a-day generally answers to purpose very well.

WANT OF APPETITE.

This may proceed from a foul stomach; indigestion the want of free air and exercise; grief; fear; anxiet or any of the depressing passions; excessive heat; is use of strong broths, fat meats, or any thing that palls is appetite, or is hard of digestion, the immoderate use strong liquors, tea, tobacco, opium, &c.

The patient ought, if possible, to make choice of an op dry air; to take exercise daily on horseback, or in a cariage; to rise betimes; and to avoid all intense thoug He should use a diet of easy digestion; and should avoid excessive heat and great fatigue.

If want of appetite proceeds from errors in diet, or a

as honey, hydromel, or boiled honey and water, unrefined sug

The doctor observes, that such lenitive substances are proper persons of dry atrabilatian constitutions, who are subject to astric of the belly, and the piles, and will operate when stronger medic substances are sometimes ineffectual; but that such lenitive diet h those whose bowels are weak and lax. He likewise observes, that watery substances are lenitive, and that even common water, wh sour milk, and butter milk, have that effect ;—That new milk, e cially ass's milk, stimulates still more when it sours on the stoma and that whey turned sour will purge strongly ;—That most gar fruits are likewise laxative; and that some of them, as grapes, throw such as take them immoderately into a cholera morbus, or incurdiarrheea.

\$66

WANT OF APPETITE.

r part of the patient's regimen, it ought to be chan-If nausea and reaching shew that the stomach is loadith crudities, a vomit will be of service. After this a le purge or two of rhubarb, or of any of the purging bitlts, may be taken. The patient ought next to use some the stomachic bitters infused in wine. Though gentle mations be necessary, yet strong purges and vomits are avoided, as they weaken the stomach, and hurt diges-

ixir of vitriol is an excellent medicine in most cases digestion, weakness of the stomach, or want of appetite. In twenty to thirty drops of it may be taken twice or the a-day in a glass of wine or water. It may likewise nixed with the tincture of the bark, one drachm of the ter to an ounce of the latter, and two tea-spoonfuls of keen in wine or water, as above.

he chalybeate waters, if drunk in moderation, are gelly of considerable service in this case. The salt-waas likewise good effects; but it must not be used too y. The waters of Harrowgate, Scarborough, Moffat, most other Spas in Britain, may be used with advan-We would advise all who are afflicted with indigestion want of appetite, to repair to these places of public renous. The very change of air, and the cheerful comwill be of service; not to mention the exercise, dision, amusements, &c.

OF THE HEART-BURN.

HAT is commonly called the *heart-burn*, is not a disof that organ, but an uneasy sensation of heat or acriy about the pit of the stomach, which is sometimes aded with anxiety, nausea, and vomiting,

may proceed from debility of the stomach, indigesbile, the abounding of an acid in the stomach, &c. ons who are liable to this complaint ought to avoid liquors, acids, windy or greasy aliments, and should in use violent exercise soon after a plentiful meal. I w many persons who never fail to have the heart-burn ey ride soon after dinner, provided they have drunk wine, or any fermented liquor; but are never troubEmollient clysters of milk and water, or of chicken water, ought to be frequently administered through the course of the disease. These prove beneficial by promoting a discharge from the intestines, and also by acting as a kindly fomentation to the womb and parts adjacent. Great care, however, is requisite in giving them, on account of the tenderness of the parts in the *pelvis* at this time.

To evacuate the offending bile from the stomach, a vonit is generally given. But as this is apt to increase the irritability of the stomach, already too great, it will be safer to omit it, and to give in its stead a gentle laxative, which will both tend to cool the body, and to procure a free discharge of the bile *.

The medicine which I have always found to succeed best in this disease is the saline draught. This, if frequently repeated, will often put a stop to the vomiting, and at the same time lessen the violence of the fever. It it runs off by stool, or if the patient be restless, a few drops of laudanum, or some syrup of poppies, may occasionally be added.

If the stools should prove so frequent as to weaken and exhaust the patient, a starch clyster, with thirty or forty drops of laudanum in it, may be administered as occasion shall require; and the drink may be rice-water, in every English pint of which half an ounce of gum-arabic has been dissolved. Should these fail, recourse must be had to Columboroot, or some other strong astringent.

Though in general the food ought to be light, and the drink diluting, yet when the disease has been long protracted, and the patient is greatly spent by evacuations, it will be necessary to support her with nourishing diet and generous cordials.

It was observed that this fever, after continuing for some time, often acquires a putrid form. In this case the Peruvian bark must be given, either by itself, or joined with cordials, as circumstances may require. As the bark

* Midwives ought to be very cautious in administering vomits or purge to women in child-bed. I have known a woman, who was recovering extremely well, thrown into the most imminent danger, by a strong purgwhich was given her by an officious midwife. substance will be apt to purge, it may be given in deoction or infusion mixed with the tincture of roses, or her gentle astringents; or, a scruple of the extract of rk with half an ounce of spirituous cinnamon-water, to ounces of common water, and ten drops of laudanum, ny be made into a draught, and given every second, ird, or fourth hour, as shall be found necessary.

When the stomach will not bear any kind of nourishent, the patient may be supported for some time by orsters of beef-tea, or chicken-water.

To avoid this fever, every woman in child-bed ought be kept perfectly easy; her food should be light and mple, and her bed-chamber cool, and properly ventilat-., There is not any thing more hurtful to a woman in is situation than being kept too warm. She ought not lhave her body bound too tight, nor to rise too soon im bed, after delivery; catching cold is also to be boided; and a proper attention should be paid to cleantess.

To prevent the milk-fever, the breasts ought to be equently drawn; and if they are filled previous to the set of a fever, they should, upon its first appearance, drawn, to prevent the milk from becoming acrid, and being absorbed in this state. Costiveness is likewise be avoided. This will be best effected by the use of d clysters and a laxative diet.

We shall conclude our observations on child-bed won by recommending it to them, above all things, to ware of cold. Poor women, whose circumstances oblige im to quit their bed too soon, often contract diseases in cold, of which they never recover. It is pity the poor not better taken care of in this situation.

But the better sort of women run the greatest hazard in too much heat. They are generally kept in a sort bagnio for the first eight or ten days, and then dressed to see company. The danger of this conduct must pobvious to every one.

The superstitious custom of obliging women to keep house till they go to church, is likewise a very comn cause of catching cold. All churches are damp, most of them cold; consequently they are the very from them. Nor is this at all to be wondered at; intense thinking not only preys upon the spirits, but prevents the person from taking proper exercise, by which means the digestion is impaired, the nourishment prevented, the solids relaxed, and the whole mass of humours vitiated. Grief and disappointment likewise produce the same effects. I have known more nervous patients, who dated the commencement of their disorders from the loss of a husband, a favourite child, or from some disappointment in life, than from any other cause. In a word, whatever weakens the body, or depresses the spirits, may occasion nervous disorders, as unwholesome air, want of sleep, great fatigue, disagreeable apprehensions, anxiety, vexation, &c.

SYMPTOMS.—We shall only mention some of the most general symptoms of these disorders, as it would be both an useless and an endless task to enumerate the whole. They generally begin with windy inflations or distensions of the stomach and intestines; the appetite and digestion are usually bad; yet sometimes there is an uncommon craving for food, and a quick digestion. The food often turns sour on the stomach; and the patient is troubled with vomiting of clear water, tough phlegm, or a blackishcoloured liquor resembling the grounds of coffee. Excruciating pains are often felt about the naval, attended with a rumbling or murmuring noise in the bowels. The body is sometimes loose, but more commonly bound which occasions a retention of wind and great uncasiness.

The urine is sometimes in small quantity, at other times very copious and quite clear. There is a great straitness of the breast, with difficulty of breathing; violent palpitations of the heart; sudden flushings of heat in various parts of the body; at other times a sense of cold, as if water were poured on them; flying pains in the arms and limbs; pains in the back and belly, resembling those occasioned by gravel; the pulse very variable, sometimes uncommonly slow, and at other times very quick; yawning, the hiccup, frequent sighing, and a sense of suffocation, as if from a ball or lump in the throat; alternate fits of crying and convulsive laughing; the sleep is unnd and seldom refreshing; and the patient is often ubled with the night-mare.

As the disease increases, the patient is molested with d-achs, cramps, and fixed pains in various parts of body; the eyes are clouded, and often affected with n and dryness; there is a noise in the ears, and often mlness of hearing; in short, the whole animal functions impaired. The mind is disturbed on the most trivial asions, and is hurried into the most perverse commoss, inquietudes, terror, sadness, anger, diffidence, &c. patient is apt to entertain wild imaginations and exragant fancies; the memory becomes weak, and the gment fails.

Nothing is more characteristic of this disease than a sstant dread of death. This renders those unhappy sons who labour under it peevish, fickle, impatient, apt to run from one physician to another; which is reason why they seldom reap any benefit from medie, as they have not sufficient resolution to persist in one course till it has time to produce its proper effects. ey are likewise apt to imagine that they labour under ases from which they are quite free; and are very anif any one attempts to set them right, or laugh them of their ridiculous potions.

EGIMEN.-Persons afflicted with nervous diseases ht never to fast long. Their food should be solid and rishing, but of easy digestion. Fat meats and heavy ces are hurtful. All excess should be carefully avoid-They ought never to eat more at a time than y can easily digest; but if they feel themselves Ik and faint between meals, they ought to eat a of bread, and drink a glass of wine. Heavy sups are to be avoided. Though wine in excess enbles the body, and impairs the faculties of the mind, taken in moderation, it strengthens the stomach, promotes digestion. Wine and water is a very per drink at meals; but if wine sours on the stoch, or the patient is much troubled with wind, ndy and water will answer better. Every thing t is windy or hard of digestion must be avoided. weak and warm liquors are hurtful, as tea, coffee, punch, &c. People may find a temporary relief in the use of these, but they always increase the malady, as they weaken the stomach and hurt digestion. Above all things, drams are to be avoided. Whatever immediate ease the patient may feel from the use of ardent spirits, they are sure to aggravate the malady, and prove certain poisons at last. These cautions are the more necessary, as most nervous people are peculiarly fond of tea and ardent spirits; to the use of which many of them fall victims.

Exercise in nervous disorders is superior to all medicines. Riding on horseback is generally esteemed the best, as it gives motion to the whole body, without fatiguing it. I have known some patients, however, with whom walking agreed better, and others, who were most benefited by riding in a carriage. Every one ought to use that which he finds most beneficial. Long sea-voyages have an excellent effect; and to those who have sufficient resolution, we would by all means recommend this course. Even change of place, and the sight of new objects, by diverting the mind, have a great tendency to remove these complaints. For this reason a long journey, or a voyage, is of much more advantage than riding short journeys near home.

A cool and dry air is proper, as it braces, and invigorates the whole body. Few things tend more to relax and enervate than hot air, especially that which is rendered so by great fires, or stoves in small apartments. But when the stomach or bowels are weak, the body ought to be well guarded against cold, especially in winter by wearing a thin flannel waistcoat, next the skin. This will keep up an equal perspiration, and defend the alimentary canal from many impressions to which it would othe wise be subject, upon every sudden change from warm to cold weather. Rubbing the body frequently with a flesh brush, or a coarse linen cloth, is likewise beneficial, as it promotes the circulation, perspiration, &c. Persons who have weak nerves ought to rise early, and take exercise before breakfast, as lying too long a-bed cannot fail to relax

solids. They ought likewise to be diverted, and to be as easy and cheerful as possible. There is not any g which hurts the nervous system, or weakens the diive powers, more than fear, grief, or anxiety.

EDICINES.—Though nervous diseases are seldom ra-Ily cured, yet their symptoms may sometimes be alleed, and the patient's life rendered at least more comble by proper medicines.

Then the patient is costive, he ought to take a litrhubarb, or some other mild purgative, and should ar suffer his body to be long bound. All strong and ent purgatives are however to be avoided, as aloes, p, &c. I have generally seen an infusion of senna rhubarb in brandy answer very well. This may be ee of any strength, and taken in such quantity as the ent finds necessary. When digestion is bad, or the mach relaxed and weak, the following infusion of Pean bark and other bitters may be used with advan-::

aske of Peruvian bark an ounce, gentian-root, orangeand coriander-seed, of each half an ounce; let these edients be all bruised in a mortar, and infused in a ce of brandy or whiskey, for the space of five or six . A table-spoonful of the strained liquor may be taken alf a glass of water, an hour before breakfast, dinner, supper.

w things tend more to strengthen the nervous system cold bathing. This practice, if duly persisted in, will uce very extraordinary effects; but when the liver ther *viscera* are obstructed, or otherwise unsound, the bath is improper. It is therefore to be used with very caution. The most proper seasons for it are sumand autumn. It will be sufficient, especially for perof a spare habit, to go into the cold bath three or times a-week. If the patient be weakened by it, els chilly for a long time after coming out, it is impro-

patients afflicted with wind, I have always observed createst benefit from the elixir of vitriol. It may be a in the quantity of fifteen, twenty, or thirty drops, or thrice a day in a glass of water. This both ex-

OF MELANCHOLY.

pels wind, strengthens the stomach, and promotes diges. tion.

Opiates are generally extolled in these maladies; but as they only palliate the symptoms, and generally afterwards increase the disease, we would advise people to be extremely sparing in the use of them, lest habit render them at last absolutely necessary.

It would be an easy matter to enumerate many medicines which have been extolled for relieving nervous disorders; but whoever wishes for a thorough cure must expect it from regimen alone; we shall therefore omit mentioning more medicines, and again recommend the strictest attention to DIET, AIR, EXERCISE, and AMUSE-MENTS.

OF MELANCHOLY.

MELANCHOLY is that state of alienation or weakness of mind which renders people incapable of enjoying the pleasures, or performing the duties of life. It is a degree of insanity, and often terminates in absolute madness.

CAUSES .- It may proceed from an hereditary disposition; intense thinking, especially where the mind in long occupied about one object; violent passions or affections of the mind, as love, fear, joy, grief, overweening pride, and such like. It may also be occasioned by excessive venery; narcotic or stupefactive poisons; a sedentary life ; solitude ; the suppression of customary evacuations; acute fevers, or other diseases. Violent anger will change melancholy into madness; and exces sive cold, especially of the lower extremities, will force the blood into the brain, and produce all the symptom of madness. It may likewise proceed from the use o aliment that is hard of digestion, or which cannot be easily assimilated; from a callous state of the integument of the brain, or a dryness of the brain itself. To al which we may add gloomy or mistaken notions of reli gion.

SYMPTOMS.—When persons begin to be melancholy they are timorous; watchful; fond of solitude; freful; fickle; captious and inquisitive: solicitous about

\$74

s; sometimes niggardly, and at other times prodi-The body is generally bound; the urine thin, and nall quantity; the stomach and bowels inflated with ; the complexion pale; the pulse slow and weak. Ifunctions of the mind are also greatly perverted, in uch that the patient often imagines himself dead, anged into some other animal. Some have imaginceir bodies were made of glass, or other brittle subees, and were afraid to move, lest they should be in to pieces. The unhappy patient, in this case, unarefully watched, is apt to put an end to his own misee life.

then the disease is owing to an obstruction of custoevacuations, or any bodily disorder, it is easier cured when it proceeds from affections of the mind, or an litary taint. A discharge of blood from the nose, mess, scabby eruptions, the bleeding piles, or the menses times carry off this disease.

GIMEN.—The diet should consist chief y of vege. of a cooling and opening quality. Animal food, ially salted or smoke-dried fish or flesh, ought to be ed. All kinds of shell-fish are bad. Aliments prewith onions, garlic, or any thing that generates thick , are likewise improper. All kind of fruits that are resome may be eaten with advantage. Boerhaave gives stance of a patient who, by a long use of whey, water, arden-fruit, recovered, after having evacuated a great ity of black-coloured matter.

ong liquors of every kind ought to be avoided as The most proper drink is water, whey, or very beer. Tea and coffee are improper. If honey agrees the patient, it may be eaten freely, or his drink may eetened with it. Infusions of balm-leaves, penny-roye roots of wild valerian, or the flowers of the lime-tree, be drunk freely, either by themselves, or sweetened honey, as the patient shall chuse.

e patient ought to take as much exercise in the open he can bear. This helps to dissolve the viscid hus, it removes obstructions, promotes the perspiration, all the other secretions. Every kind of madness is led with a diminished perspiration; all means ought

OF MELANCHOLY.

therefore to be used to promote that necessary and salutary discharge. Nothing can have a more direct tendene to increase the disease than confining the patient to a close apartment. Were he forced to ride or walk a certain number of miles every day, it would tend greatly to allevia his disorder; but it would have still a better effect, if I were obliged to labour a piece of ground. By diggin hoeing, planting, sowing, &c. both the body and min would be exercised. A long journey, or a voyage, especially towards a warmer climate, with agreeable companions, has often very happy effects. A plan of this kine with a strict attention to diet, is a much more rational method of cure, than confining the patient within doors an plying him with medicines.

MEDICINE.—In the cure of this disease particula attention must be paid to the mind. When the patier is in a low state, his mind ought to be soothed and diver ed with variety of amusements, as entertaining storie pastimes, music, &c. This seems to have been the me thod of curing melancholy among the Jews, as we lear from the story of King Saul; and indeed it is a very retional one. Nothing can remove diseases of the mind effectually as applications to the mind itself, the most e ficacious of which is music. The patient's company oug likewise to consist of such persons as are agreeable to him People in this state are apt to conceive unaccountable ave sions against particular persons; and the very sight of suc persons is sufficient to distract their minds, and throw the into the utmost perturbation.

When the patient is high, evacuations are necessary. I this case he must be bled, and have his body kept open h purging medicines, as manna, rhubarb, cream of tartar, of the soluble tartar. I have seen the last have very happ effects. It may be taken in the dose of half an ounce, do solved in water-gruel, every day, for sundry weeks, of even for months, if necessary. More or less may h given according as it operates. Vomits have likewise good effect; but they must be pretty strong, otherwise the will not operate.

Whatever increases the evacuation of urine, or promote perspiration, has a tendency to remove this disease. Bot

secretions may be promoted by the use of nitre and gar. Half a drachm of purified nitre may be given or four times a day in any manner that is most aable to the patient; and an ounce and a half of did vinegar may be daily mixed with his drink. Dr cer seems to think vinegar the best medicine that can ven in this disease.

imphire and musk have likewise been used in this with advantage. Ten or twelve grains of camphire be rubbed in a mortar with half a drachm of nitre, taken twice a day, or oftener, if the stomach will bear lif it will not sit upon the stomach in this form, it be made into pills with gum asafætida and Russian r, and taken in the quantity above directed. If the is to be administered, a scruple or twenty-five grains imay be made into a bolus with a little honey or non syrup, and taken twice or thrice a day. We do mean that all these medicines should be administered one; but whichever of them is given, must be duly sted in, and where one fails another may be tried.

it is very difficult to induce patients in this disease are medicines, we shall mention a few outward applins, which sometimes do good; the principal of these issues, setons, and warm bathing. Issues may be in any part of the body, but they generally have the set effect near the spine. The discharge from these be greatly promoted by dressing them with the mild ring ointment, and keeping what are commonly calne orrice pease in them. The most proper place for in is between the shoulder blades; and it ought to aced upwards and downwards, or in the direction of pine.

OF THE PALSY.

TE palsy is a loss or diminution of sense or motion, both, in one or more parts of the body. Of all the ions called nervous, this is the most suddenly fatal. more or less dangerous, according to the importance e part affected. A palsy of the heart, lungs, or any necessary for life, is mortal. When it affects the

3 B

stomach, the intestines, or the bladder, it is highly dangerous. If the face be affected, the case is bad, as i shews that the disease proceeds from the brain. When the part affected feels cold, is insensible, or wastes away or when the judgment and memory begin to fail, there i sm ll hopes of a cure.

CAUSES.—The immediate cause of palsy is any thing that prevents the regular exertion of the nervous powe upon any particular muscle or part of the body. The oc casional and predisposing causes are various, as drunken ness; wounds of the brain, or spinal marrow; pressur upon the brain or nerves; very cold or damp air; th suppression of customary evacuations; sudden fear; wan of exercise; or whatever greatly relaxes the system, a drinking much tea *, or coffee, &c. The palsy may like wise proceed from wounds of the nerves themselves, fror the poisonous fumes of metals or minerals, as mercury lead, arsenic, &c.

In young persons of a full habit, the palsy must b treated in the same manner as the sanguine apoplexy The patient must be bled, blistered, and have his body or ened by sharp clysters, or purgative medicines. But in ol age, or when the disease proceeds from relaxation or deb lity, which is generally the case, a quite contrary cours must be pursued. The diet must be warm and attenuat ing, consisting chiefly of spicy and aromatic vegetables, a mustard, horse-radish; &c. The drink may be generou wine, mustard whey, or brandy and water. Friction wit the flesh-brush, or a warm hand, is extremely proper, e pecially on the parts affected. Blistering plasters ma likewise be applied to the affected parts with advar tage. When this cannot be done, they may be rubbe with the volatile liniment, or the nerve ointment of th Edinburgh dispensatory. One of the best external appl

* Many people imagine, that tea has no tendency to: hurt the nerve and that drinking the same quantity of warm water would be equally pemicious. This, however, seems to be a mistake. Many persons drink thror four cups of warm milk and water daily, without feeling any bad cosequences; yet the same quantity of tea will make their hands shake ftwenty-four hours. That tea affects the nerves is likewise evident from is preventing sleep, occasioning giddiness, dimness of the sight, sickness, &

tions is electricity. The shocks, or rather vibrations, ould be received on the part affected; and they ought ily to be repeated for several weeks.

Vomits are very beneficial in this kind of palsy, and ght frequently to be administered. Cephalic snuff, or y thing that makes the patient sneeze, is likewise of use. me pretend to have found great benefit from rubbing parts affected with nettles; but this does not seem to any way preferable to blistering. If the tongue is aftted, the patient may gargle his mouth frequently with andy and mustard; or he may hold a bit of sugar in his outh wet with the palsy-drops, or compound spirits of lander. The wild valerian root is a very proper medicine this case. It may either be taken in an infusion with ge leaves, or half a drachm of it in powder may be givin a glass of wine three times a-day. If the patient mot use the valerian, he may take of sal volatile oleosum, mpound spirits of lavender, and tincture of castor, each If an ounce; mix these together, and take forty or fifty pps in a glass of wine three or four times a day. A table conful of mustard seed taken frequently is a very good dicine. The patient ought likewise to chew cinnamonk, ginger, or other warm spiceries.

Exercise is of the utmost importance in the palsy; but patient must beware of cold, damp, and moist air. ought to wear flannel next his skin: and, if possible, ould remove into a warmer climate.

OF THE EPILEPSY, OR FALLING SICKNESS.

The epilepsy is a sudden deprivation of all the senses, erein the patient falls suddenly down, and is affected h violent convulsive motions. Children, especially se who are delicately brought up, are most subject to It more frequently attacks men than women, and is y difficult to cure. When the epilepsy attacks' chiln, there is reason to hope it may go off about the time puberty.

When it attacks any person after twenty years of age, cure is difficult; but when after forty, a cure is hardto be expected. If the fit continues only for a short space, and returns seldom, there is reason to hope; but if it continues long, and returns frequently, the prospect is bad. It is a very unfavourable symptom when the patient is seized with the fits in his sleep.

CAUSES.—The epilepsy is sometimes hereditary. It may likewise proceed from blows, bruises, or wounds on the head; a collection of water, blood, or serous humours in the brain; a polypus; tumours or concretions within the skull; excessive drinking; intense study; excess of venery; worms; teething; suppression of customary evacuations; too great emptiness or repletion; violent passions or affections of the mind, as fear, joy, &c.; hysteric affections; contagion received into the body, as the infection of the small-pox, measles, &c.

SYMPTOMS.—An epileptic fit is generally preceded by unusual weariness; pain of the head; dulness; giddiness; noise in the ears; dimness of sight; palpitation of the heart; disturbed sleep; difficult breathing; the bow els are inflated with wind; the urine is in great quantity but thin; the complexion is pale; the extremities ar cold; and the patient often feels, as it were, a stream cr cold air ascending towards his head.

In the fit, the patient generally makes an unusual noise his thumbs are drawn in towards the palms of the hands his eyes are distorted; he starts, and foams at the mouth his extremities are bent or twisted various ways; he of ten discharges his seed, urine, and fæces involuntar ly; and is quite destitute of all sense and reason. Afte the fit is over, his senses gradually return, and he com plains of a kind of stupor, weariness, and pain of h head; but has no remembrance of what happened durint the fit.

The fits are sometimes excited by violent affections the mind, a debauch of liquor, excessive heat, cold, the like.

This disease, from the difficulty of investigating i causes, and its strange symptoms, was formerly attribued to the wrath of the gods, or the agency of evil spirin In modern times it has often, by the vulgar, been in puted to witchcraft or fascination. It depends howev as much upon natural causes as any other malady; an

cure may often be effected by persisting in the use of oper means.

REGIMEN.—Epileptic patients ought, if possible, to eathe a pure and free air. Their diet should be light at nourishing. They ought to drink nothing strong, avoid swine's flesh, water-fowl, and likewise all windy d oily vegetables, as cabbage, nuts, &c. They ought keep themselves cheerful, carefully guarding against violent passions, as anger, fear, excessive joy, and the ce.

Exercise is likewise of great use; but the patient must careful to avoid all extremes either of heat or cold, all ngerous situations, as standing upon precipices, riding, cep waters, and such like.

MEDICINE .- The intentions of cure must vary acreding to the cause of the disease. If the patient be of anguine temperament, and there be reason to fear an struction in the brain, bleeding and other evacuations Il be necessary. When the disease is occasioned by stoppage of customary evacuations, these, if possible, inst be restored; if this cannot be done, others may be postituted in their place. Issues or setons in this case we often a very good effect. When there is reason to lieve that the disease proceeds from worms, proper merines must be used to kill, or carry off these vermin. hen the disease proceeds from teething, the body should kept open by emollient clysters, the feet frequently thed in warm water, and, if the fits prove obstinate, a stering-plaster may be put betwixt the shoulders. The me method is to be followed, when epileptic fits precede eruption of the small-pox, or measles, &c.

When the disease is hereditary, or proceeds from a ong formation of the brain, a cure is not to be expect-When it is owing to a debility, or too great an irribility of the nervous system, such medicines as tend to uce and strengthen the nerves may be used, as the Pevian bark, and steel; or the *anti-epileptic* electuaries, commended by Fuller and Mead. *

The flowers of zinc have of late been highly extolled the cure of the epilepsy. Though this medicine will * See Appendix, Electuary for the Epilepsy. not be found to answer the expectations which have been raised concerning it, yet in obstinate epileptic cases it deserves a trial. The dose is from one to three or four grains, which may be taken either in pills or a bolus, as the patient inclines. The best method is to begin with a single grain four or five times a-day, and gradually to increase the dose as far as the patient can bear it. I have known this medicine, when duly persisted in, prove beneficial.

Musk has sometimes been found to succeed in the epilepsy. Ten or twelve grains of it, with the same quantity of factitious cinnabar, may be made into a bolus, and taken every night and morning.

Sometimes the epilepsy has been cured by electricity.

Convulsion-fits proceed from the same causes, and mus be treated in the same manner as the epilepsy.

There is one particular species of convulsion fits which commonly goes by the name of St Vitus's dance, where in the patient is agitated with strange motions and gesticulations, which by the common people are generally believ ed to be the effects of witchcraft. This disease may b cured by repeated bleedings and purges; and afterward using the medicines prescribed above for the epilepsy, viz the Peruvian bark and snake-root, &c. Chalybeate wa ters are found to be beneficial in this case. The cold bat is likewise of singular service, and ought never to be ne glected when the patient can bear it.

OF THE HICCUP.

THE hiccup is a spasmodic or convulsive affection of the stomach and midriff, arising from any cause that irritate their nervous fibres.

It may proceed from excess in eating or drinking from a hurt of the stomach; poisons; inflammations, o scirrhous tumours of the stomach, intertines, bladde midriff, or the rest of the *viscera*. In gangrenes, acu and malignant fevers, a hiccup is often the forerunner death.

When the hiccup proceeds from the use of aliment that is flatulent, or hard of digestion, a draught of gene s wine, or a dram of any spiritous liquor, will geney remove it. If poison be the cause, plenty of milk and must be drunk, as has been formerly recommended. ien it proceeds from an inflammation of the stomach, it is very dangerous. In this case the cooling regimen ht to be strictly observed. The patient must be bled, take frequently a few drops of the sweet spirits of e in a cup of wine-whey. His stomach should likewise omented with cloths dipped in warm water, or have lders filled with warm milk and water applied to it.

When the hiccup proceeds from a gangrene or mortifion, the Peruvian bark, with other antiseptics, are the medicines which have a chance to succeed. When a primary disease, and proceeds from a foul stomach, ed either with a pituitous or a bilious humour, a gentle nit and purge, if the patient be able to bear them, will of service. If it arises from flatulencies, the carminamedicines directed for the heartburn must be II.

When the hiccup proves very obstinate, recourse must and to the powerful aromatic and antispasmodic menes. The principal of these is musk; fifteen or twenrains of which may be made into a bolus, and repeatceasionally. Opiates are likewise of service; but they t be used with caution. A bit of sugar dipped in comnd spirits of lavender, or the volatile aromatic tincture, be taken frequently. External applications are somess also beneficial; as the stomach plaster, or a catain of the Venice treacle of the Edinburgh or London ensatory, applied to the region of the stomach.

lately attended a patient who had almost a constant hicfor above nine weeks. It was frequently stopped by use of musk, opium, wine, and other cordial and antisnodic medicines, but always returned. Nothing howgave the patient so much ease as brisk small-beer. Irinking freely of this, the hiccup was often kept off everal days, which was more than could be done by nost powerful medicines. The patient was at length d with a vomiting of blood, which soon put an end to ife. Upon opening the body, a large scirrhous tumour was found near the pylorus or right orific of the stomach.

The hiccup may be removed by taking vinegar, or a few drops of the oil of vitriol taken in water.

CRAMP OF THE STOMACH.

THIS disease often seizes people suddenly, is very dangerous, and requires immediate assistance. It is most incident to persons in he decline of life, especially the nervous, gouty, hysteric, and hypochondriac.

If the patient has any inclination to vomit, he ought to take some draughts of warm water, or weak camomile-tea to cleanse his stomach. After this, if he has been costive a laxative clyster may be given. He ought then to take laudanum. The best way of administering it is in clyster. Sixty or seventy drops of liquid laudanum may be given in a clyster of warm water. This is much mor certain than laudanum given by the mouth, which is ofter vomited, and in some cases increases the pain and spasm in the stomach.

If the pain and cramps return with great violence, at ter the effects of the anodyne clyster are over, another with an equal or a larger quantity of opium, may be giv en; and every four or five hours a bolus, with ten of twelve grains of musk, and half a drachm of the Venice treacle.

In the mean time, the stomach ought to be fomente with cloths dipped in warm water, or bladders fille with warm milk and water should be constantly applie to it. I have often seen these produce the most happ effects. The anodyne balsam may also be rubbed on th part affected; and an anti-hysteric plaster worn upon for some time after the cramps are removed, to preven their return.

In very violent and lasting pains of the stomach, som blood ought to be let, unless the weakness of the patie forbids it. When the pain or cramps proceed from a supression of the *menses*, bleeding is of use. If they be ov ing to the gout, recourse must be had to spirits, or son of the warm cordial waters. Blistering-plasters oug

OF THE NIGHT-MARE.

ewise in this case to be applied to the ancles. I have en seen violent cramps and pains of the stomach reved by covering it with a large plaster of Venice trea-

\$85

OF THE NIGHT MARE.

N this disease the patient, in time of sleep, imagines he is an uncommon oppression or weight about his breast stomach, which he can by no means shake off. He ans, and sometimes cries out, though oftener he attempts peak in vain. Sometimes he imagines himself engaged h an enemy, and in danger of being killed, attempts to away, but finds he cannot. Sometimes he fancies uself in a house that is on fire, or that he is in danger being drowned in a river. He often thinks he is falling r a precipice, and the dread of being dashed to pieces denly awakes him.

This disorder has been supposed to proceed from too ech blood; from a stagnation of blood in the brain, lungs, But it is rather a nervous affection, and arises chiefly in indigestion. Hence we find that persons of weak wes, who lead a sedentary life, and live full, are most umonly afflicted with the night-mare. Nothing tends to produce it than heavy suppers, especially when in late, or the patient goes to bed soon after. Wind kewise a very frequent cause of this disease; for which on those who are afflicted with it ought to avoid llatulent food. Deep thought, anxiety, or any thing oppresses the mind, ought also to be avoided.

s persons afflicted with the night-mare generally n, or make some noise in the fit, they should be ed, or spoken to by such as hear them, as the uneass generally goes off as soon as the patient is awake. Whytt says he generally found a dram of brandy, en at bed-time, prevent this disease. That however bad custom, and in time loses its effect. We would er have the patient depend upon the use of food of digestion, cheerfulness, exercise through the day, a light supper taken early, than to accustom himself to drams. A glass of peppermint-water will often promote digestion as much as a glass of brandy, and is much safer. After a person of weak digestion, however, has eaten flatulent food, a dram may be necessary; in this case we would recommend it as the most proper medicine.

Persons who are young, and full of blood, if troubled with the night mare, ought to take a purge frequently, and use a spare diet.

OF SWOONINGS.

PEOPLE of weak nerves or delicate constitutions are liable to swoonings or fainting fits. These indeed are seldom dangerous when duly attended to; but when wholly neglected, or improperly treated, they often prove hurtful, and sometimes fatal.

The general causes of swoonings are, sudden transition from cold to heat; breathing air that is deprived of its proper spring or elasticity; great fatigue; excessive weakness loss of blood; long fasting; fear, grief, and other violen passions or affections of the mind.

It is well known that persons who have been long exposed to cold, often faint or fall into a swoon, upon coming into the house, especially if they drink hot liquor, o sit near a large fire. This might easily be prevented by people taking care not to go into a warm room immediately after they have been exposed to the cold air, to approach the fire gradually, and not to eat or drink any thing hot till the body has been gradually brought into a warm tem perature.

When any one, in consequence of neglecting thes precautions, falls into a swoon, he ought immediately t be removed to a cooler apartment, to have ligature applied above his knees and elbows, and to have hi hands and face sprinkled with vinegar or cold water. H should likewise be made to smell to vinegar, and shoul have a spoonful or two of water, if he can swallow, wit about a third part of vinegar mixed with it, poured int his mouth. If these should not remove the complaint,

\$86

Il be necessary to bleed the patient, and afterwards to we him a clyster.

As air that is breathed frequently loses its elasticity or ing, it is no wonder if persons who respire in it often I into a swoon or fainting fit. They are in this case prived of the very principal of life. Hence it is that uting fits are so frequent in all crowded assemblies, esially in hot seasons. Such fits, however, must be conered as a kind of temporary death; and, to the weak I delicate, they sometimes prove fatal. They ought refore with the utmost care to be guarded against. The thod of doing this is obvious. Let assembly-rooms, and other places of public resort, be large and well ventilat-; and let the weak and delicate avoid such places, parularly in warm seasons.

A person who faints, in such a situation, ought immetely to be carried into the open air; his temples should rubbed with strong vinegar or brandy, and volatile rits of salts held to his nose. He should be laid upon back with his head low, and have a little wine, or some ter cordial, as soon as he is able to swallow it, poured to his mouth. If the person has been subject to hysteric , castor or asafœtida should be applied to the nose, or rnt feathers, horn, or leather, &c.

When fainting fits proceed from mere weakness or exinstion, which is often the case after great fatigue, long ing, loss of blood, or the like, the patient must be ported with generous cordials, as jellies, wines, spirious liquors, &c. These, however, must be given at tt in very small quantities, and increased gradually as patient is able to bear them. He ought to be allowto lie quite still and easy upon his back, with his head 7, and should have fresh air admitted into his cham-: His food should consist of nourishing broths, sagoael with wine, new milk, and other things of a light I cordial nature. These things are to be given out of fit. All that can be done in the fit is, to let him ell to a bottle of Hungary-water, eau de luce, or spirits hartshorn, and to rub his temples with warm brandy, to lay a compress dipped in it to the pit of the stoch.

In fainting fits that proceed from fear, grief, or other violent passions or affections of the mind, the patient must be very cautiously managed. He should be suffered to remain at rest, and only made to smell to some vinegar. After he is come to himself he may drink freely of warm lemonade, or balm-tea, with some orange or lemon-peel in it. It will likewise be proper, if the fainting fits have been long and severe, to clean the bowels by throwing in an emollient clyster.

It is common in fainting fits, from whatever cause they proceed, to bleed the patient. This practice may be very proper in strong persons of a full habit, but in those who are weak and delicate, or subject to nervous disorders, it is dangerous. The proper method with such people is, to expose them to the free air, and to use cordial and stimulating medicines, as volatile salts, Hungary water, spirits of lavender, tincture of castor, and the like.

OF FLATULENCIES, OR WIND.

ALL nervous patients, without exception, are afflicted with wind or flatulencies in the stomach and bowels, which arise chiefly from the want of tone or vigour in these organs. Crude, flatulent aliment as green peasbeans, coleworts, cabbages, and such like, may increase this complaint; but strong and healthy people are seldom troubled with wind, unless they either overload their stomach, or drink liquors that are in a fermenting state, and consequently full of elastic air. While therefore the matter of flatulence proceeds from our aliments, the cause which makes air separate from them in such quantity as to occasion complaints, is almost always a fault of the bowels themselves, which are too weak either to prevent the production of elastic air, or to expel it after it is produced.

To relieve this complaint, such medicines ought to be used as have a tendency to expel wind, and by strengthening the alimentary canal, to prevent its being produced there *.

* Many nervous people find great benefit from eating a dry biscuit

OF FLATULENCIES, OR WIND.

The list of medicines for expelling wind is very nume-; they often, however, dissapoint the expectations of n the physician and his patient. The most celebrated ing the class of carminatives are juniper berries; the ss of ginger and zedoary; the seeds of anise, caraway, coriander; gum asafœtida and opium; the warm watinctures, and spirits, as the aromatic water, the ture of woodsoot, the volatile aromatic spirit, æther,

rr Whytt says, he found no medicines more efficaciin expelling wind than æther and laudanum. He rally gave the laudanum in a mixture with pepperta-water and tincture of castor, or sweet spirits of ni-Sometimes, in place of this, he gave opium in pills asafætida. He observes, that the good effects of oes are equally conspicuous, whether the flatulence be mained in the stomach or intestines; whereas those m medicines, commonly called *carminatives*, do not n give immediate relief, except when the wind is in stomach.

With regard to æther, the Doctor says, he has often seen good effects from it in flatulent complaints, where remedicines failed. The dose is a tea-spoonful mixtith two table-spoonfuls of water *. In gouty cases he reves, that æther, a glass of French brandy, or of the matic water, or ginger, either taken in substance or ted in boiling water, are among the best medicines for lling wind.

Then the case of flatulent patients is such as makes it coper to give them warm medicines inwardly, the cor recommends external applications, which are times of advantage. Equal parts of the anti-hysteric stomach plaster may be spread upon a piece of soft ter, of such size as to cover the greater part of the . This should be kept on for a considerable time,

ally when the stomach is empty. I look upon this as one of the carminative medicines; and would recommend it in all complaints stomach, arising from flatulence, indigestion, &c.

Though the patient may begin with this quantity, it will be ney to increase the dose gradually as the stomach can bear it. Æs now given in considerably greater doses than it was in Dr Whytt's provided the patient be able to bear it; if it should give great uneasiness, it may be taken off, and the following liniment used in its stead:

Take of Bates's anodyne balsam an ounce; of the expressed oil of mace half an ounce; oil of mint two drachms. Let these ingredients be mixed together, and about a table-spoonful well rubbed on the parts at bed-time.

For strengthening the stomach and bowels, and consequently for lessening the production of flatulence, the Doctor recommends the Peruvian bark, bitters, chalybeates, and exercise. In flatulent cases, he thinks some nutmeg or ginger should be added to the tincture of the bark and bitters, and that the aromatic powder should be joined with the filings of iron.

When windy complaints are attended with costiveness which is often the case, few things will be found to answe better than four or five of the following pills taken every night at bed-time:

Take of asafœtida two drachms; succotrine aloes, sal of iron, and powdered ginger, of each one drachm; a much of the *elixir proprietatis* as will be sufficient to form them into pills.

On the other hand, when the body is too open, twelv or fifteen grains of rhubarb, with half a drachm or tw scruples of the Japonic confection, given every other even ing, will have very good effects.

In those flatulent complaints which come on about th time the *menses* cease, repeated small bleedings often giv more relief than any other remedy.

With regard to diet, the Doctor observes, that te and likewise all flatulent aliments, are to be avoided and that for drink, water with a little brandy or rum not only preferable to malt liquor, but in most cases als to wine.

As Dr Whytt has paid great attention to this subject and as his sentiments upon it in a great measure agree with mine, I have taken the liberty to adopt them; and shall only add to his observations, that exercise is in moopinion, superior to all medicine, both for preventing the production, and likewise for expelling of flatulencie

OF LOW SPIRITS.

se effects, however, are not to be expected from saunterabout, or lolling in a carriage; but from labour, or active amusements as give exercise to every part of pody.

OF LOW SPIRITS.

LL who have weak nerves are subject to low spirits greater or less degree. Generous diet, the cold , exercise, and amusements, are the most likely is to remove this complaint. It is greatly increased olitude and indulging gloomy ideas; but may often telieved by cheerful company and sprightly amusets.

then low spirits are owing to a weak relaxed state of tomach and bowels, an infusion of the Peruvian bark cinnamon or nutmeg will be proper. Steel joined aromatics may likewise in this case be used with adage; but riding, and a proper diet, are most to be deted on.

then they arise from a foulness of the stomach and tines, or of obstruction in the hypochondriac viscera, ic purges will be proper. I have sometimes known Harrowgate sulphur-water of service in this case.

hen low spirits proceed from a suppression of the strual or of the hæmorrhoidal flux, these evacuations either be restored, or some others substituted in their is, as issues, setons, or the like. Dr Whytt observes, nothing has such sudden good effects in this case as ing.

hen low spirits have been brought on by long-cond grief, anxiety, or other distress of mind, agreeable bany, variety of amusements, and change of place, eslly travelling into foreign countries, will afford the certain relief.

rsons afflicted with low spirits should avoid all kinds cess, especially of venery and strong liquors. The moe use of wine and other strong liquors is by no means iul; but when taken to excess they weaken the stoi, vitiate the humours, and depress the spirits. This on is the more necessary, as the unfortunate and me-

OF HYSTERIC AFFECTIONS.

lancholy often fly to strong liquors for relief, by which means they never fail to precipitate their own destruction

OF HYSTERIC AFFECTIONS.

THESE likewise belong to the numerous tribe of nerwous diseases, which may be justly reckoned the reproac of medicine. Women of a delicate habit, whose stomac and intestines are relaxed, and whose nervous system extremely sensible, are most subject to hysteric complaint In such persons a hysteric fit, as it is called, may b brought on by an irritation of the nerves of the stomac or intestines, by wind, acrid humour, or the like. sudden suppression of the *menses* often gives rise to hyster fits. They may likewise be excited by violent passions of affections of the mind, as fear, grief, anger, or great di appointments.

Sometimes the hysteric fit resembles a swoon or fain ing fit, during which the patient lies as in a sleep, on the breathing is so low as scarce to be perceived. At ther times the patient is affected with catchings and stree convulsions. The symptoms which precede hysteric f are likewise various in different persons. Sometimes t fits come on with coldness of the extremities, yawnin and stretching, lowness of spirits, oppression and anxiet At other times the approach of the fit is foretold by a fee ing as if there were a ball at the lower part of the bell which gradually rises towards the stomach, where it occ sions inflation, sickness, and sometimes vomiting; after wards it rises into the gullet, and occasions a degree suffocation, to which quick breathing, palpitation of t heart, giddiness of the head, dimness of the sight, l of hearing, with convulsive motions of the extremit and other parts of the body succeed. The hysteric paroxy: is often introduced by an immoderate fit of laughter, a sometimes it goes off by crying. Indeed there is not mu difference between the laughing and crying of an high hysteric lady.

Our aim in the treatment of this disease must be shorten the fit or paroxysm when present, and to preve its return. The longer the fits continue, and the m

\$92

equently the return, the disease becomes the more obstiite. Their strength is increased by habit, and they inice so great a relaxation of the system, that it is with fliculty removed.

It is customary, during the hysteric fit or paroxysm, bleed the patient. In strong persons of a plethoric hat, and where the pulse is full, this may be proper; but weak and delicate constitutions, or where the disease as been of long standing, or arises from inanition, it is ot safe. The best course in such cases is to rouse the paent by strong smells, as burnt feathers, asafœtida, or irits of hartshorn, held to the nose. Hot bricks may albe applied to the soles of the feet and the legs, arms ad belly may be strongly rubbed with a warm cloth. ut the best application is to put the feet and legs into arm water. This is peculiarly proper when the fits prede the flow of the menses. In case of costiveness, a xative clyster with asafcetida will be proper; and as on as the patient can swallow, two table-spoonfuls of a lution of asafætida, or of some cordial julep, may be ven *.

The radical cure of this disorder will be best attempted a time when the patient is most free from the fits. It ill be greatly promoted by a proper attention to diet. A ilk and vegetable diet, when duly persisted in, will ofn perform a cure. If however the patient has been actstomed to a more generous diet, it will not be safe to ave it off all at once, but by degrees. The most proper ink is water with a small quantity of spirits. A cool dry t is the best. Cold bathing and every thing that braces e nerves, and invigorates the system, is beneficial; it lying too long in bed, or whatever relaxes the bot, is hurtful. It is of the greatest importance to have

* When hysteric fits are occasioned by sympathy, they may be curby exciting an opposite passion. This is said to have been the case a whole school of young ladies in Holland, who were all cured by ing told, that the first who was seized should be burnt to death. But is method of cure, to my knowledge, will not always succeed. I would erefore advise, that young ladies who are subject to hysteric fits should at be sent to boarding schools, as the disease may be caught by imitation; have known madness itself brought on by sympathy. the mind kept constantly easy and cheerful, and, if possible, to have it always engaged in some agreeable and interesting pursuit.

The proper medicines are those which strengthen the alimentary canal and the whole nervous system, as the preparations of iron, the Peruvian bark, and other bitters. Twenty drops of the elixir of vitriol, in a cup of the infusion of the bark, may be taken twice or thrice a-day. The bark and iron may likewise be taken in substance provided the stomach can bear them; but they are generally given in too small doses to have any effect. The chalybeate waters generally prove beneficial in this disor der.

If the stomach is loaded with phlegm, vomits will be o use; but they should not be too strong, nor frequently repeated, as they tend to relax and weaken the stomach If there be a tendency to costiveness, it must be remov. • ed, either by diet, or by taking an opening pill as often a it shall be found necessary.

To lessen the irritability of the system, antispasmodi medicines will be of use. The best antispasmodic medicines are musk, opium, and castor. When opium disa grees with the stomach, it may either be applied externally, or given in clysters. It is often successful in removing those periodical head-achs to which hysteric an hypochondriac patients are subject. Castor has in som cases been found to procure sleep where opium failed; fo which reason Dr Whytt advises, that they should be join ed together. He likewise recommends the anti-hysteri plaster to be applied to the *abdomen* *.

Hysteric women are often afflicted with cramps in various parts of the body, which are most apt to seize there in bed, or when asleep. The most efficacious medicine in this case are opium, blistering plasters, and warm be thing or fomentations. When the cramp or spasm is very violent, opium is the remedy most to be depended on In milder cases, immersing the feet and legs in warm wa

* Though antispasmodics and anodynes are universally recommendin this disease, yet all the extraordinary cures that I ever knew in h steric cases, were performed by means of tonic and corroborating m dicines.

OF HYSTERIC AFFECTIONS.

; or applying a blistering-plaster to the part affected, Il often be sufficient to remove the complaint. In pants whose nerves are uncommonly delicate and sensible, will be better to omit the blistering-plaster, and to atnpt the cure by opiates, musk, camphire, and the warm th.

Cramps are often prevented or cured by compression. Its cramps in the legs are prevented, and sometimes reoved, by tight bandages; and when convulsions arise in a flatulent distention of the intestines, or from spasms ginning in them, they may be often lessened or cured making a pretty strong compression upon the *abdomen* means of a broad belt. A roll of brimstone held in thand is frequently used as a remedy for cramps. Hough this seems to owe its effect chiefly to imagination; as it sometimes succeeds it merits a trial *. When the strong of the intestines, no lasting relief can be prored till these are either corrected or expelled. The Pevian bark has sometimes cured periodic convulsions afother medicines had failed.

OF HYPOCHONDRIAC AFFECTIONS.

This disease generally attacks the indolent, the luxuus, the unfortunate, and the studious. It becomes ly more common in this country, owing, no doubt, the increase of luxury and sedentary employments. It so near a resemblance to the immediately preceding, t many authors consider them as the same disease, and it them accordingly. They require however a very erent regimen; and the symptoms of the latter, though i violent, are more permanent than those of the forr.

Men of a melancholy temperament, whose minds are bable of great attention, and whose passions are not ily moved, are in the advanced periods of life, most ble to this disease. It is usually brought on by long

Some persons afflicted with cramps, pretend to reap great benefit small bundles of rosemary tied all night about their feet, ancles, knees.

596 OF HYPOCHONDRIAC AFFECTIONS.

and serious attention to abstruse subjects, grief, the suppression of customary evacuations, excess of venery, the repulsion of cutaneous eruptions, long continued evacuations, obstructions in some of the viscera, as the liver, spleen, &c.

Hypochondriac persons ought never to fast long, and their food should be solid and nourishing. All acescent and windy vegetables are to be avoided. Flesh meats agree best with them, and their drink 'should be old claret, or good madeira. Should these disagree with the stomach, water with a little brandy or rum in it may be drunk.

Cheerfulness and serenity of mind are by all means to be cultivated. Exercise of every kind is useful. The cold bath is likewise beneficial; and, where it does no agree with the patient, frictions with the flesh-brush or a coarse cloth may be tried. If the patient has it in hi power, he ought to travel either by sea or land. A voy age or a long journey, especially towards a warmer climate will be of more service than any medicine.

The general intentions of cure, in this disease, are to strengthen the alimentary canal, and to promote the sec cretions. These intentions will be best answered by the different preparations of iron and the Peruvian bark, whice after proper evacuations, may be taken in the same manner as directed in the preceding disease.

If the patient be costive, it will be necessary to make use of some gentle opening medicine, as pills compose of equal parts of aloes, rhubarb, and asafœtida, with a much of the elixir proprietatis as is necessary to form the ingredients into pills. Two, three, or four of these may be taken as often as it shall be found needful, to keep the body gently open. Such as cannot bear the asafœtida may substitute Spanish soap in its place.

Though a cheerful glass may have good effects in the disease, yet all manner of excess is hurtful. Intense stud and every thing that depresses the spirits, are likewise per nicious.

Though the general symptoms and treatment of ne vous disorders were pointed out in the beginning of th chapter; yet, for the benefit of the unhappy persons a

OF HYPOCHONDRIAC AFFECTIONS.

cted with those obstinate and complicated maladies, I we treated several of their capital symptoms under diinct or separate heads. These however are not to be nsidered as different diseases, but as various modificaons of the same disease. They all arise from the same neral causes, and require nearly the same method of catment. There are many other symptoms that merit rticular attention, which the nature of my plan will not rmit me to treat of at full length. I shall therefore omit em altogether, and conclude this chapter with a few geral remarks on the most obvious means of preventing or oiding nervous disorders.

In all persons afflicted with nervous disorders, there is great delicacy and sensibility of the whole nervous sysm, and an uncommon degree of weakness of the orins of digestion. These may either be natural or quired. When owing to a defect in the constition, they are hardly to be removed; but may be itigated by proper care. When induced by diseases, long or repeated fevers, profuse hæmorrhages, or the ke, they prove also very obstinate, and will yield only a course of regimen calculated to restore and invigorate the habit.

But nervous affections arise more frequently from caus, which it is in a great-measure in our own power to oid, than from diseases, or an original fault in the contution, &c. Excessive grief, intense study, improper et, and neglect of exercise, are the great sources of this itensive class of diseases.

It has been already observed, that grief indulged deroys the appetite and digestion, depresses the spirits, and duces an universal relaxation and debility of the whole stem. Instances of this are daily to be seen. The loss a near relation, or any other misfortune in life, is often fficient to occasion the most complicated series of nervous mptoms. Such misfortunes indeed are not to be avoided, it surely their effects, by a vigorous and proper exertion the mind, might be rendered less hurtful. For direcons in this matter we must refer the reader to the article RIEF, in the chapter on the passions.

The effects of interse study are pretty similar to those

occasioned by grief. It preys upon the animal spirits, and destroys the appetite and digestion. To prevent these effects, studious persons ought, according to the Poet, to toy with their books *. They should never study too long at a time; nor attend long to one particular subject, especially if it be of a serious nature. They ought likewise to be attentive to their posture, and should take care frequently to unbend their minds by music, diversions, or going into agreeable company.

With regard to diet, I shall only observe, that nervous diseases may be induced either by excess or inanition. Both of these extremes hurt digestion, and vitiate the humours. When Nature is oppressed with fresh loads of food, before she has had time to digest and assimilate the former meal, her powers are weakened, and the vessels are filled with crude humours. On the other hand when the food is not sufficiently nourishing, or is taken too seldom, the bowels are inflated with wind, and the humours for want of regular fresh supplies of wholesome chyle, are vitiated. These extremities are therefore with equal care to be avoided. They both tend to induce a relaxation and debility of the nervous system, with all its dreadfu train of consequences.

But the most general cause of nervous disorders is *indo lence*. The active and laborious are seldom troubled with them. They are reserved for the children of ease and af fluence, who generally feel their keenest force. All we shall say to such persons is, that the means of prevention and cure are both in their own power. If the constitution of human nature be such, that man must either labour of suffer diseases, surely no individual has any right to expect an exemption from the general rule.

Those however who are willing to take exercise, bu whose occupations confine them to the house, and per haps to an unfavourable posture, really deserve our pity. We have in a former part of the book endeavoured to lay down rules for their conduct; and shall only add that where these cannot be complied with, their plac may, in some measure, be supplied by the use of bra cing and strengthening medicines, as the Peruvian bark

DISORDERS OF THE SENSES.

h other bitters; the preparations of steel; the elixir of riol, &c.

CHAP. XLIV.

DISORDERS OF THE SENSES.

W E do not mean to treat of the nature of our sensations, or to give a minute description of the various ans by which they are performed; but to point out ne of the diseases to which these organs are most lia-, and to shew how they may be prevented or remedied.

OF THE EYE.

No organ of the body is subject to more diseases than eye; nor is there any one of which the diseases are re difficult to cure. Though more ignorant persons tend to cure these than any other class of diseases; yet ery superficial acquaintance with the structure of the , and the nature of vision, will be sufficient to conce any one of the danger of trusting to them. These ases often exceed the skill of the most learned physi-1; hence we may easily infer the danger of trusting m to ignorant quacks, who without all peradventure, out more eyes than they cure. But, though the dises of the eye can seldom be cured, they might often, due care, be prevented; and, even where the sight is lly lost, many things might be done, which are genly neglected, to render the unhappy person both more ful to himself and to society *.

It is a pity those who have the misfortune to be bern blind, or lose their sight when young, should be suffered to remain in ignoe, or to beg. This is both cruelty and want of economy. There many employments of which blind persons are very capable, as ting, carding, turning a wheel, teaching languages, &cc. Nor are mees wanting of persons who have arrived at the highest pitch of ting, without having the least idea of light. Witness the late fas Nicholas Sanderson of Cambridge, and my worthy friend Dr. The eyes are hurt by viewing bright or luminous objects; keeping the head too long in a hanging posture; violent head-achs; excessive venery; the long use of bitters; the effluvia from acrid or volatile substances; various diseases; as the small-pox, measles, &c. but, above all, from night-watching, and candle light studies. Long fasting is likewise hurtful to the eyes, and frequent heats and colds are no less pernicious. The eyes are often hurt by the stoppage of customary evacuations; as morning sweats; sweating of the feet; the menses in women, and the bleeding piles in men. All kinds of excess are likewise hurtful to the sight, particularly the immoderate use of ardent spirits and other strong liquors.

In all diseases of the eyes, especially those attended with inflammation, the cool regimen ought to be observed. The patient must abstain from all spirituous liquors. The smoke of tobacco, smoky rooms, the vapours of onions and garlic, and all vivid lights and glaring colours, are carefull, to be avoided. The drink may be water, whey, or small beer; and the aliment must be light and easy of diges tion.

For preventing disorders of the eyes, issues and seton are of prime use. Every person, whose eyes are tender ought to have one or more of these in some part of the body. It will likewise be of use to keep the body genth open, and either to bleed or purge every spring and fall All excess and night studies are to be avoided. Such a do not chuse a seton or an issue, will find benefit fro wearing a small Burgundy-pitch plaster between the shoulders.

A gutta serena, or amaurosis, is an abolition of the sight without any apparent cause or fault in the eye When it is owing to a decay or wasting of the opt nerve, it does not admit of a cure; but when it procee from a compression of the nerves by redundant humou these may in some measure be drained off, and the p

Thomas Blacklock of Edinburgh. The former was one of the f mathematicians of his age, and the latter, besides being a good poet s philosopher, is master of all the learned languages, and a very consideraadept in the liberal arts. at relieved. For this purpose, the body must be kept on with the laxative mercurial pills. If the patient be ing and of a sanguine habit, he may be bled. Cupg, with scarifications on the back part of the head, will ewise be of use. A running at the nose may be proted by volatile salts, stimulating powders, &c. But the st likely means for relieving the patient are issues, or ters kept open for a long time on the back part of the d, behind the ears, or on the neck. I have known these ore sight, even after it had been for a considerable time

Should these fail, recourse must be had to a mercurial vation; or what will perhaps answer the purpose bettwelve grains of the corrosive sublimate of mercury y be dissolved in an English pint and a half of brandy, l a table spoonful of it taken twice a-day, drinking f a pint of the decoction of sarsaparilla after it.

A cataract is an obstruction of the pupil, by the interition of some opaque substance, which either diminishes totally extinguishes the sight. It is generally an opacity the crystalline humour. In a recent or beginning cataract same medicines are to be used as in the gutta serena; I they will sometimes succeed. But when this does not open, and the cataract becomes firm, it must be couched, rather extracted. I have resolved a recent cataract giving the patient frequent purges with calomel, ping a poultice of fresh hemlock constantly upon the , and a perpetual blister on the neck.

The myopia, or short sightedness, and the presbyopia, or ing only at too great a distance, are disorders which deid on the original structure or figure of the eye, theree admit of no cure. The inconveniencies arising from m may however be, in some measure, remedied by the p of proper glasses. The former requires the aid of a icave, and the latter of a convex glass.

A strabismus or squinting, depends upon an irregular utraction of the muscles of the eye from a spasm, palepilepsy, or an ill habit. Children often contract s disorder by having their eyes unequally exposed to light. They may likewise acquire it by imitation

OF THE EYE.

from a squinting nurse or play fellow, &c. As this dison der can hardly be cured, parents ought to be careful to prevent it. Almost the only thing which can be done fo it is to contrive a mask for the child to wear, which will only permit him to see in a straight direction.

Spots or specks on the eyes are generally the effect of inflammation, and often appear after the small-pox, the measles, or violent ophthalmias. They are very difficulto cure, and often occasion total blindness. If the speck are soft and thin, they may sometimes be taken off bgentle caustics and discutients; as vitriol, the juice of ce landine, &c. When these do not succeed, a surgical of peration may be tried : the success of this however is a ways very doubtful.

The *blood-shot* eye may be occasioned by a stroke, a fal retching, vomiting, violent coughing, &c. I have frequen ly known it happen to children in the hooping-cough. appears at first like a bit of scarlet, and is afterwards of livid or blackish colour. This disorder generally goes o without medicine. Should it prove obstinate, the patien may be bled, and have his eyes fomented with a decoctic of comphry roots and elder flowers. A soft poultice ma be applied to the eyes; and the body should be kept ope by gentle purgatives.

The watery, or weeping eye, is generally occasioned be a relaxation or weakness of the glandular parts of that organ These may be braced and strengthened by bathing the ey with brandy and water, Hungary-water, rose-water wit white vitriol dissolved in it, &c. Medicines which mak a revulsion are likewise proper; as mild purgatives, pe petual blisters on the neck, bathing the feet frequently is lukewarm water, &c.

When this disease proceeds from an obstruction of the lachrymal duct, or natural passage of the tears, it is calle a *fistula lachrymalis*, and can only be cured by a surgice operation.

OF THE EAR.

THE functions of the ear may be injured by wound ulcers, or any thing that hurts its fabric. The hearing

OF THE EAR.

likewise be hurt by excessive noise; violent colds in head; fevers; hard wax, or other substances sticking he cavity of the ear; too great a degree of moisture or ness of the ear. Deafness is very often the effect of age, and is incident to most people in the decline of Sometimes it is owing to an original fault in the cture or formation of the ear itself. When this is case, it admits of no cure; and the unhappy person only continues deaf, but generally likewise dumb, for

Then deafness is the effect of wounds, or ulcers of the or of old age, it is not easily removed. When it eeds from cold of the head, the patient must be careto keep his head warm, especially in the night; he ld likewise take some gentle purges, and keep his feet n, and bathe them frequently in lukewarm water at time. When deafness is the effect of a fever, it gelly goes off after the patient recovers. If it proceeds dry wax sticking in the ears, it may be softened by

Though those who have the misfortune to be born deaf are genesuffered to continue dumb, and consequently are in a great meadost to society, yet nothing is more certain than that such persons be taught not only to read and write, but also to speak, and to stand what others say to them. Teaching the dumb to speak will r paradoxical to those who do not consider that the formation of s is merely mechanical, and may be taught without the assistance of r. This is not only capable of demonstration, but is actually reduced actice by the ingenious Mr. Thomas Braidwood of Edinburgh. gentleman has, by the mere force of genius and application, ht the teaching of dumb persons to such a degree of perfection, his scholars are generally more forward in their education than of the same age who enjoy all their faculties. They not only read vrite with the utmost readiness, but likewise speak, and are capable Iding conversation with any person in the light. What a pity of the human species should remain in a state of idiotism, who are le of being rendered as useful and intelligent as others ! We on this not only from humanity to those who have the misfortune born deaf, but also in justice to Mr Braidwood, whose success ir exceeded all former attempts this way; and indeed it exceeds nation itself so far, that no person who has not seen and examined upils, can believe what they are capable of .- As this gentleman, ver willing, is only able to teach a few, and as the far greater of those who are born deaf cannot afford to attend him, it would act of great humanity, as well as of public utility, to erect an academy ieir benefit,

dropping oil into them; afterwards they must be syringed with warm milk and water.

If deafness proceeds from dryness of the ears, which may be known by looking into them, half an ounce of the oil of sweet almonds, and the same quantity of liquid apodeldoch, or tincture of asafœtida, may be mixed together, and a few drops of it put into the ear every night at bed time, stopping them afterwards with a little wool or cotton. Some, instead of oil, put a small slice of the fat of bacon into each ear, which is said to answer the purpose very well. When the ears abound with moisture, it may be drained off by an issue or seton, which should be made as near the affected parts as possible.

Some, for the cure of deafness, recommend the gall of an eel mixed with spirit of wine, to be dropped into the ear; others, equal parts of Hungary-water and spirit la vender. Etmuller extols amber and musk; and Brooke says, he has often known hardness of hearing cured by putting a grain or .wo of musk into the ear with cotton wool. But these and other applications must be varied according to the cause of the disorder *.

Though such applications may sometimes be of service yet they much oftener fail, and frequently they do hur. Neither the eyes nor ears ought to be tampered with they are tender organs, and require a very delicate touch For this reason, what we would chiefly recommend i deatness, is, to keep the head warm. From whateve cause the disorder proceeds, this is always proper; an I have known more benefit from it alone, in the mos obstinate cases of deafness, than from all the medicines ever used.

* A gentleman, on whose veracity I can depend, told me, that aft using many things to no purpose for an obstinate deafness, he was first advised to put a few drops of his own urine warm into his ears very night and morning, from which he received great benefit. It probable that a solution of *sal ammoniac*, in water, would produce to same effect.

OF THE TASTE AND SMELL.

HOUGH these senses are not of so great importance nan in a state of society, as the sight and hearing; as the loss of them is attended with some inconvenienthey deserve our notice. They are seldom to be reed when lost; which ought to make us very attento their preservation, by carefully avoiding whatever v in the least prove injurious to them. As there is a v great affinity between the organs of tasting and illing, whatever hurts the one generally affects the o-

Luxury is highly injurious to these organs. When mose and palate are frequently stimulated by fragrant poignant dishes, they soon lose the power of distinshing tastes and odours with any degree of nicety. n, in a state of nature, may perhaps have these faculas acute as any other animal.

The sense of smelling may be diminished or destroyed diseases; as the moisture, dryness, inflammation or puration of that membrane which lines the inside of nose, commonly called the olfactory membrane; the pression of the nerves which supply this membrane, ome fault in the brain itself at their origin. A defect, oo great a degree of solidity, of the small spungy bones he upper jaw, the caverns of the forehead, &c. may wise impair the sense of smelling. It may also be ind by a collection of foetid matter in those caverns, ch keeps constantly exhaling from them. Few things more hurtful to the sense of smelling than taking great ntities of snuff.

Vhen the nose abounds with moisture, after gentle uations, such things as tend to take off irritation, and gulate the thin sharp serum, may be applied; as the oilnise mixed with fine flour; camphire dissolved in oil almonds, &c. The vapours of amber, frankincense, a-mastic, and benjamin, may likewise be received into nose and mouth.

or moistening the mucus when it is too dry, some ommend snuff made of the leaves of marjoram, mixed

OF THE TASTE AND SMELL.

with the oil of amber, marjoram and aniseed; or a sternutatory of calcined white vitriol; twelve grains of which may be mixed with two ounces of marjoram-water, and filtrated. The steam or vapour of vinegar upon hot iron received up the nostrils is likewise of use for softening the mucus, opening obstructions, &c.

If there is an ulcer in the nose, it ought to be dressed with some emollient ointment, to which, if the pain be very great, a little laudanum may be added. If it be a venereal ulcer, it is not to be cured without mercury. In that case, the solution of the corrosive sublimate in brandy may be taken, as directed in the gutta serena. The ulcer ought likewise to be washed with it; and the fumes of cinabar may be received up the nostrils.

If there be reason to suspect the nerves which supply the organs of smelling are inert, or want stimulating, volatile salts, strong snuffs, and other things which occasion sneezing, may be applied to the nose. The forehead may likewise be anointed with balsam of Peru, to which may be added a little of the oil of amber.

The *taste* may be diminished by crusts, filth, mucus aphthæ, pellicles, warts, &c. covering the tongue : It may be depraved by a fault of the saliva, which, being discharged into the mouth, gives the same sensation as if the food which the person takes had really a bad taste; or i may be entirely destroyed by injuries done to the nerves o the tongue and palate. Few things prove more hurtful either to the sense of tasting or smelling than obstinate colds, especially those which affect the head.

When the taste is diminished by filth, mucus, &c. the tongue ought to be scraped and frequently washed with a mixture of water, vinegar and honey, or some othe detergent. When the saliva is vitiated, which seldon happens unless in fevers or other diseases, the curing o the disorder is the cure of this symptom. To relieve i however in the mean time, the following things may be of use; if there be a bitter taste, it may be taken away by vomits, purges, and other things which evacuate bile What is called a nidorous taste, arising from putrid hu mours, is corrected by the juice of citrons, oranges, and other acids. A salt taste is cured by plentiful dilution

OF THE TOUCH.

h watery liquors. An acid taste is destroyed by absornts, and alkaline salts, as powder of oyster-shells, salt vormwood, &c.

When the sensibility of the nerves which supply the ans of taste is diminished, the chewing of horse-raa, or other stimulating substances, will help to recoit.

OF THE TOUCH.

HE sense of touching may be hurt by any thing that ructs the nervous influence, or prevents its being rerly conveyed to the organs of touching; as pressure, eme cold, &c. It may likewise be hurt by too great gree of sensibility, when the nerve is not sufficiently red by the cuticle or scarf-skin, or where there is too t a tension of it, or it is too delicate. Whatever disrrs the functions of the brain and nerves, hurts the sense wuching. Hence it appears to proceed from the same rral causes as palsy and apoplexy, and requires nearly same method of treatment.

a stupor, or defect of touching, which arises from bstruction of the cutaneous nerves, the patient must be purged; afterwards such medicines as excite the on of the nerves, or stimulate the system, may be us-For this purpose, the spirit of hartshorn, sal volatile um, horse-radish, &c. may be taken inwardly; the dered parts, at the same time, may be frequently ed with fresh nettles, or spirit of sal ammoniac. Blisg-plasters and sinapisms applied to the parts will likebe of use, as also warm bathing, especially in the nahot baths.

CHAP. XLII.

OF A SCIRRHUS AND CANCER.

SCIRRHUS is a hard indolent tumour seated in some of the glands; as the breasts, the arm-pits, &c. tumour becomes large, unequal, of a livid, blackish, or leaden colour, and is attended with violent pain, it gets the name of an occult cancer. When the skin is broken, and a sanies or ichorous matter of an abominably foetid smell is dischared from the sore, it is called an open or ulcerated cancer. Persons after the age of forty-five, particularly women, and those who lead an indolent sedentary life; are most subject to this disease.

CAUSES .- This disease is often owing to suppressed eva. cuations; hence it proves so frequently fatal to women of a gross habit, particularly old maids and widows about the time when the menstrual flux ceases. It may likewise be occasioned by excessive fear, grief, anger, religious me lancholy, or any of the depressing passions. Hence the unfortunate, the choleric, and those persons who devot themselves to a religious life in convents or monasteries are often afflicted with it. It may also be occasioned b the long continued use of food that is too hard of digestion or of an acrid nature; by barrenness; celibacy; indolence cold; blows; frictions; pressure; or the like. Wome often suffer from the last of these by means of their stay which squeeze and compress their breasts so as to occasio great mischief. Sometimes the disease is owing to an he reditary disposition.

SYMPTOMS .- This disorder seems often very triffin at the beginning. A hard tumour about the size of hazle nut, or perhaps smaller, is generally the first sym tom. This will often continue for a long time witho seeming to increase, or giving the patient great uneasines but if the constitution be hurt, or the tumour irritated pressure, or improper treatment of any kind, it begins extend itself towards the neighbouring parts by pushin out a kind of roots or limbs. It then gets the name cancer, from a fancied resemblance between these lim and the claws of a crab. The colour of the skin begin to change, which is first red, afterwards purple, then bl ish, livid, and at last black. The patient complains heat, with a burning, gnawing, shooting pain. The t mour is very hard, rough, and unequal, with a protube ance, or rising, in the middle; its size increases daily, a the neighbouring veins become thick, knotty, and of blackish colour.

OF A SCIRRHUS AND CANCER.

人门目

he skin at length gives way, and a thin sharp ichof as to flow, which corrodes the neighbouring parts, till rms a large unsightly ulcer. More occult cancers aand communicate with the neighbouring glands. pain and stench become intolerable; the appetite the strength is exhausted by a continual hectic feat last, a violent hæmorrhage, or discharge of blood, some part of the body, with faintings or convulfits, generally put an end to the miserable patient's

CGIMEN.—The diet ought to be light, but nourish-All strong liquors, and high seasoned or salted prous, are to be avoided. The patient may take as much use as he can easily bear; and should use every meto divert thought, and amuse his fancy. All kinds iternal injury are carefully to be guarded against, ularly of the affected part, which ought to be ded from all pressure, and even from the external air, ivering it with fur or soft flannel.

DICINE.—This is one of those diseases for which rtain remedy is yet known. Its progress however cometimes be retarded, and some of its most disagreesymptoms mitigated, by proper applications. One tune attending the disease is, that the unhappy paoften conceals it too long. Were proper means used time, a cancer might often be cured ; but after the time, a cancer might often be cured ; but after the time at defiance.

to observe a proper regimen, and to take twice or a-week a dose of the common purging mercurial. Some blood may also be let, and the part affected be gently rubbed twice a day with a little of the merointment, and kept warm with fur or flannel. ood must be light, and an English pint of the dein of woods or sarsaparilla may be drunk daily. I sometimes discussed hard tumours, which had the rance of beginning cancers, by a course of this

uld the tumour however not yield to this treatment, n the contrary, become larger and harder, it will be proper to extirpate it, either by the knife or causti-Indeed, whenever this can be done with safety, the soor er it is done the better. It can answer no purpose to entirpate a cancer after the constitution is ruined, or the whole mass of humours corrupted by it. This howev is the common way, which makes the operation so seldo succeed. Few people will submit to the extirpation to death stares them in the face; whereas, if it were done early, the patient's life would not be endangered by the operation, and it would generally prove a radical cure.

When the cancer is so situated that it cannot be cut of or if the patient will not submit to the operation, submedicines as will mitigate or relieve the most urgent symtoms may be used. Dr Home says, that half a grain the corrosive sublimate of mercury, dissolved in a propquantity of brandy, and taken night and morning, we often be of service in cancers of the face and nose. I likewise recommends an infusion of the *solanum* or nighshade, in cancers of the breasts.

But the medicine most in repute at present for this de ease is hemlock. Dr Stork, physician at Vienna, has late recommended the extract of this plant as very efficious in cancers of every kind. The Doctor says, he ligiven some hundred weights of it without ever hurting ny body, and often with manifest advantage. He adv es the patient however to begin with small doses, as to or three grains, and to increase the dose gradually till so good effect be perceived, and there to rest without furt increase. From two or three grains at first, the Doc says he has increased the dose to two, three, or four drach a-day, and finds that such doses may be continued for veral weeks without any bad consequences.

The regimen which the Doctor recommends dur the use of the medicine, is to avoid farinaceous subst ces not fermented, and too acrid aromatics. He says, g wine will not be hurtful to those who are accustomed it, nor a moderate use of acids ; and adds, that the pati should live in a pure free air, and keep his mind as qu and cheerful as possible.

The Doctor does not pretend to fix the time in wh a cancer may be resolved by the use of hemlock, but s

as given it for above two years in large doses without apparent benefit; nevertheless the patient has been 1 by persisting in the use of it for half a year longer. is at least encouragement to give it a fair trial. ugh we are far from thinking the hemlock merits extravagant encomiums which the Doctor has beed upon it, yet, in a disease, which has so long baffied moasted powers of medicine, we think it ought always tried.

me powder of hemlock is by some preferred to the act. They are both made of the fresh leaves, and be used nearly in the same manner. Dr Nicholson erwick says, he gradually increased the dose of the lifer from a few grains to half a drachm, and gave four drachms of it in the day with remarkably good ts. The hemlock may also be used externally either poultice or fomentation. The sore may likewise be clean by injecting daily a strong decoction of the tand leaves into it.

w things contribute more to the healing of foul sordid rs of any kind than keeping them thoroughly clean. ought never to be neglected. The best application this purpose seems to be the carrot poultice. The of the common carrot may be grated, and moistened as much water as will bring it to the consistence of a ttice or cataplasm. This must be applied to the sore, renewed twice a day. It generally cleans the sore, the pain, and takes away the disagreeable smell, th are objects of no small importance in such a dreadlisorder *.

/ort, or an infusion of malt, has been recommended only as a proper drink, but as a powerful medicine is disease. It must be frequently made fresh, and the ent may take it at pleasure. Two, three, or even English pints of it may be drunk for a considertime. No benefit can be expected from any medicine his disease, unless it be persisted in for a long time. of too obstinate a nature to be soon removed; and, n it admits of a cure at all, it must be brought about inducing an almost total change of the habit, which

* London Medical Essays.

OF A SCIRRHUS AND CANCER.

must always be a work of time. Setons or issues in the neighbourhood of the cancer have sometimes good e fects *.

When all other medicines fail, recourse must be had to opium, as a kind of solace. This will not indeed cur the disease, but it will ease the patient's agony, and rende life more tolerable while it continues.

To avoid this dreadful disorder, people ought to us wholesome food; to take sufficient exercise in the oper air; to be as easy and cheerful as possible; and carefully to guard against all blows, bruises, and every kind of pressure upon the breasts or other glandular parts. †

CHAP. XLVI.

OF POISONS.

E VERY person ought, in some measure, to be and quainted with the nature and cure of poisons. The are generally taken unawares, and their effects are often s sudden and violent, as not to admit of delay, or allow

* In a cancer which had set all medicines, and even surgery at d fiance, I lately saw remakable effects from an obstinate perseverance in a course of antiseptics. I ordered the deep ulcers to be washed to the bottom by means of a syringe, twice or thrice a-day, either with an infusion of the bark, or a decoction of carrot, and that the patier should take four or five times a day, a glass of good wine, with half drachm of the best powdered bark in it. The sores, after being wal ed, were likewise sprinkled with the same powder. When the patier began this course, her death was daily expected. She continued for above two years, with manifest advantage; but being told by a eminent surgeon, that the bark would not cure a cancer, and that the sores ought not to be washed, she discontinued the practice, and due in a few weeks. This course was not expected to cure the cancer but to prolong the patient's life, which it evidently did almost to miracle.

+ As hemlock is the principal medicine recommended in this diseas we would have given some directions for the gathering and preparin of that plant; but as its different preparations are now kept in th shops, we think it much safer for people to get them there, with propudirections for using them.

to procure the assistance of physicians. Happily in-1 no great degree of medical knowledge is here neces-; the remedies for most poisons being generally at hand, asily obtained, and nothing but common prudence needin the application.

The vulgar notion, that every poison is cured by some inter-poison as a specific, has done much hurt. Peobelieve they can do nothing for the patient, unless know the particular antidote to that kind of poison ich he has taken. Whereas the cure of all poisons tainto the stomach, without exception, depends chiefly lischarging them as soon as possible.

There is no ease wherein the indications of cure are ce obvious. Poison is seldom long in the stomach beit occasions sickness, with an inclination to vomit. Indeed comsense dictates to every one, that if any thing has n taken into the stomach which endangers life, it ought danger arising from poisons might generally be avoid-The method of prevention is obvious, and the means in the hands of every one.

We shall not take up the reader's time with a detail of ridiculous notions which have prevailed among ignopeople in different ages with regard to poisons; neishall we mention the boasted antidotes, which have recommended either for preventing or obviating their tts; but shall content ourselves with pointing out the ons most common in this country, and the means of ling their dangerous consequences.

pisons either belong to the mineral, the vegetable, or animal kingdom.

lineral poisons are commonly of an acrid or corrosive ity; as arsenic, colbat, the corrosive sublimate of cury, &c.

hose of the vegetable kind are generally of a narcotic tupefactive quality; as poppy, hemlock, henbane, ies of the deadly night shade, &c.

bisonous animals communicate their infection either he bite or sting. This poison is very different from the former, and only produces its effects when received into the body by a wound.

MINERAL POISONS.—Arsenic is the most common of this class; and, as the whole of them are pretty similar both in their effects and method of cure, what is said with respect to it will be applicable to every other species of corrosive poison.

When a person has taken arsenic, he soon perceives a burning heat, and a violent pricking pain in his stomach and bowels, with an intolerable thirst, and an inclination to vomit. The tongue and throat feel rough and dry; and, if proper means be not soon administered, the patient is seized with great anxiety, hiccuping, fainting, and coldness of the extremities. To these succeed black vomits, fretid stools, with a mortification of the stomach and intestines, which are the immediate forerunners of death.

On the first appearance of these symptoms the patient should drink large quantities of new-milk and sallad-oil till he vomits; or he may drink warm water mixed with oil. Fat broths are likewise proper, provided they can be got ready in time. Where no oil is to be had, fresh butter may be melted and mixed with the milk or water. These things are to be drunk as long as the inclination to vomit continues. Some have drunk eight or ten English quarts before the vomiting ceased; and it is never safe to leave off drinking while one particle of the poison remains in the stomach.

These oily or fat substances not only provoke vomiting, but likewise blunt the acrimony of the poison, and prevent its wounding the bowels; but if they should no make the person vomit, half a drachm or two scruples of the powder of ipecacuanha must be given, or a few spoon fuls of the oxymel or vinegar of squills may be mixed with the water which he drinks. Vomiting may likewise be excited by tickling the inside of the throat with a feather Should these methods however fail, half a drachm of whit vitriol, or five or six grains of emetic tartar, must be ad ministered.

If tormenting pains are felt in the lower belly, and there is reason to fear that the poison has got down t

\$14

OF POISONS.

intestines, clysters of milk and oil must be very fremtly thrown up; and the patient must drink emollient octions of barley, oatmeal, marsh-mallows, and such . He must likewise take an infusion of senna and ana, a solution of Glauber's salts, or some other purga-

fter the poison has been evacuated, the patient ought some time, to live upon such things as are of a healing cooling quality; to abstain from flesh and all strong ors, and to live upon milk, broth, gruel, light puds, and other spoon meats of easy digestion. His drink ild be barley-water, linseed-tea, or infusions of any of mild mucilaginous vegetables.

EGETABLE POISONS, besides heat and pain of the nach, commonly occasion some degree of giddiness, and n a kind of stupidity or folly. Persons who have taken e poisons must be treated in the same manner as for the eral or corrosive.

hough the vegetable poisons, when allowed to remain the stomach, often prove fatal; yet the danger is erally over as soon as they are discharged. Not being ich a caustic or corrosive nature, they are less apt ound or inflame the bowels than mineral substances: time, however, ought to be lost in having them disged.

pium, being frequently taken by mistake, merits parar attention. It is used as a medicine both in a solid liquid form, which latter commonly goes by the name udanum. It is indeed a valuable medicine when tain proper quantity; but as an over-dose proves a strong on, we shall point out its common effects, together the method of cure.

n over-dose of opium generally occasions great drows, with stupor and other apoplectic symptoms. etimes the person has so great an inclination to sleep, it is almost impossible to keep him awake. Every nod must however be tried for this purpose. He ld be tossed, shaked and moved about. Sharp blisg plaisters should be applied to his legs or arms, and ulating medicines, as salts of hartshorn, &c. held unnis nose. It will also be proper to let blood. At the

OF POISONS.

same time every method must be taken to make him discharge the poison. This may be done in the manner directed above, viz. by the use of strong vomits, drinking plenty of warm water with oil, &c.

Mead, besides vomits, in this case, recommends acid medicines with lixivial salts. He says, that he has often given salt of wormwood mixed with juice of lemon in repeated doses with great success.

If the body should remain weak and languid after the poison has been discharged, nourishing diet and cordials will be proper; but when there is reason to fear that the stomach or bowels are inflamed, the greatest circumspection is necessary both with regard to food and medicine.

OF THE BITES OF POISONOUS ANIMALS.

WE shall begin with the bite of a mad dog, as it is both the most common and dangerous animal-poison in this country.

The creatures naturally liable to contract this disease are, as far as we yet know, all of the dog kind, viz. foxes, dogs, and wolves. Hence it is called the *rabies canina*, or dog madness. Of the last we have none in this island; and it so seldom happens that any person is bit by the first, that they scarce deserve to be taken notice of. If such a thing should happen, the method of treatment is precisely the same as for the bite of a mad dog.

The symptoms of madness in a dog are as follow: At first he looks dull, shews an aversion to food and company: He does not bark as usual, but seems to murmur, is peevish, and apt to bite strangers: his ears and tail droop more than usual, and he appears drowsy; afterwards he begins to loll out his tongue, and froth at the mouth, his eyes seeming heavy and watery: He now, if not confined, takes off, runs panting along with a kind of dejected air, and endeavours to bite every one he meets. Other dogs are said to fly from him. Some think this a certain sign of madness, supposing that they know him by the smell; but it is not to be depended on. If he escapes being killed, he seldom runs above two or three

, till he dies exhausted with heat, hunger, and ue.

his disease is most frequent after long, dry, hot sea; ; and such dogs as live upon putrid stinking carrion, out having enough of fresh-water, are most liable to it. hen any person has been bit by a dog, the strictest iry ought to be made whether the animal was really Many disagreeable consequences arise from neglectto ascertain this point. Some people have lived in nual anxiety for many years, because they had been by a dog which they believed to be mad; but, as he been killed on the spot, it was impossible to ascertain act. This should induce us, instead of killing a dog noment he has bit any person, to do all in our power ep him alive, at least till we can be certain whether ' mad or not.

iny circumstances may contribute to make people ine a dog mad. He loses his master, runs about in of him, is set upon by other dogs, and perhaps by the creature, thus frightened, beat, and abused, wild, and lolls out his tongue as he runs along. ediately a crowd is after him; while he, finding himclosely pursued, and taking every one he meets for emy, naturally attempts to bite him in self-defence. bon gets knocked on the head, and it passes currentat he was mad, as it is then impossible to prove the ary.

is being the true history of, by far the greater part ose dogs which pass for mad, is it any wonder that erless whimsical medicines have been extolled for nting the effects of their bite? This readily accounts e great variety of infallible remedies for the bite of a dog, which are to be met with in almost every fa-Though not one in a thousand has any claim to yet they are all supported by numberless vouchers. onder that imaginary diseases should be cured by nary remedies. In this way, credulous people first e upon themselves, and then deceive others. The medicine which was supposed to prevent the effects bite, when the dog was not mad, is recommended erson who has had the misfortune to be bit by a dog

3 G

that was really mad. He takes it, trusts to it, and is undone.

To these mistakes we must impute the frequent ill success of the medicines used for preventing the effects of the bite of a mad dog. It is not owing so much to a defect in medicine, as to wrong applications. I am persuaded, if proper medicines were administered immediately after the bite is received, and continued for a sufficient length of time, we should not lose one in a thousand of those who have the misfortune to be bit by a mad dog.

This poison is generally communicated by a wound, which nevertheless heals as soon as a common wound but afterwards it begins to feel painful, and as the pain spreads towards the neighbouring parts, the person becomes heavy and listless. His sleep is unquiet with frightful dreams; he sighs, looks dull, and loves solitude. These are the forerunners, or rather the first symptoms of that dreadful disease occasioned by the bite of a mad dog. But as we do not propose to treat fully of the disease itself, but to point out the method of preventing it, we shall not take up time in shewing its progress from the first invasion to its commonly fatal end.

The common notion, that this poison may lie in the body for many years, and afterwards prove fatal, is both hurtful and ridiculous. It must render such persons a have had the misfortune to be bit very unhappy, and can have no good effects. If the person takes proper medicines for forty days after the time of his being bit, and feels no symptoms of the disease, there is reason to believ him out of danger.

The medicines recommended for preventing the effect of the bite of a mad dog, are chiefly such as promote th different secretions, and antispasmodics.

Dr Mead recommends a preventive medicine, which he says, he never knew fail, though in the space of thirt years he had used it a thousand times.

The Doctor's prescription is as follows:

1 1 60 3

"Take ash-coloured ground liver-wort, cleaned, dried and powdered, half an ounce; of black pepper powdered a quarter of an ounce. Mix these well together, and d wide the powder into four doses; one of which must b

1 every morning fasting, for four mornings successive-1 half an English pint of cow's milk warm.

After these four doses are taken, the patient must go the cold bath, or a cold spring or river, every mornissting, for a month; he must be dipped all over, but stay in (with his head above water) longer than half nute, if the water be very cold. After this he must three times a-week for a fortnight longer.

The person must be bled before he begins to use the cine *."

e shall next mention the famous East-India specific, is called. This medicine is composed of cinnabar musk. It is esteemed a great antispasmodic; and, any, extolled as an infallible remedy for preventing ffects of the bite of a mad dog.

Take native and factitious cinnabar, of each twentygrains, musk sixteen grains. Let these be made a fine powder, and taken in a glass of arrack or lly."

is single dose is said to secure the person for thirty at the end of which it must be repeated; but if he my symptoms of the disease, it must be repeated in hours.

e following is likewise reckoned a good antispasmoiedicine;

Take of Virginian snake-root in powder, half a m, gum asafœtida twelve grains, gum camphire serains; make these into a bolus with a little syrup of m."

mphire may also be given in the following manner: Take purified nitre half an ounce, Virginian snakein powder two drachms, camphire one drachm; rub together in a mortar; and divide the whole into ten "

ercury is likewise recommended as of great efficacy, in the prevention and cure of this kind of madness.

hough we give this prescription on the credit of Dr Mead, yet we not advise any person, who has reason to believe that he has been a dog which was really mad, to trust to it alone. Mead was an aysician, but he seems to have been no great philosopher, and was mes the dupe of his own credulity.

BITES OF POISONOUS ANIMALS.

When used as a preventive, it will be sufficient to rub daily a drachm of the ointment into the parts about the wound.

Vinegar is likewise of considerable service, and should be taken freely, either in the patient's food or drink.

These are the principal medicines recommended for preventing the effects of the bite of a mad dog. We would not, however, advise people to trust to any one of them; but from a proper combination of their different powers, there is the greatest reason to hope for success.

The great error in the use of these medicines lies in not taking them for a sufficient length of time. They are used more like charms, than medicines intended to produce any change in the body. To this, and not to the insufficiency of the medicines, we must impute their frequent want of success.

Dr Mead says, that the virtue of his medicine consists in promoting urine. But how a poison should be expelled by urine, with only three or four doses of any medicine, however powerful, it is not easy to conceive. More time is certainly necessary, even though the medicine were more powerful than that which the Doctor prescribes.

The East-India specific is still more exceptionable on this account.

As these and most other medicines, taken singly, have frequently been found to fail, we shall recommend the following course :

If a person be bit in a fleshy part, where there is no hazard of hurting any large blood-vesser, the parts adjacent to the wound may be cut away. But if this be not done soon after the bite has been received, it will be better to omit it.

The wound may be dressed with salt and water, or a pickle made of vinegar and salt, and afterwards dressed twice a-day with yellow basilicon mixed with red precipitate of mercury.

The patient should begin to use either Dr Mead's medicine, or some of the others mentioned above. If he takes Mead's medicine, he may use it as the Doctor directs for four days successively. Let him then omit it for

BITES OF POISONOUS ANIMALS.

or three days, and again repeat the same number of as before.

uring this course, he must rub into the parts about yound, daily, one drachm of the mercurial ointment. may be done for ten or twelve days at least.

hen this course is over, he may take a purge or two, vait a few days till the effect of the mercury be gone He must then begin to use the cold bath, into which ay go every morning for five or six weeks. If he d feel cold and chilly for a long time after coming f the cold bath, it will be better to use a tepid one, have the water a little warmed.

the mean time, we would advise him not to leave ternal medicines, but to take either one of the bolusnake-root, asafœtida, and camphire; or one of owders of nitre, camphire, and snake-root, twice a-These may be used during the whole time he is

ng.

ring the use of the mercurial ointment, the patient keep within doors, and take nothing cold.

proper regimen must be observed throughout the course. The patient should abstain from flesh, and ted and high-seasoned provisions. He must avoid liquors, and live mostly upon a light, and rather diet. His mind should be kept as easy and cheerful ssible, and all excessive heat and violent passions d with the utmost care.

we never seen this course of medicine, with proper en, fail to prevent the hydrophobia, and cannot gain observing, that the want of success must ge-7 be owing either to the application of improper ines, or not using proper ones for a sufficient length e.

nkind are extremely fond of every thing that proa sudden or miraculous cure. By trusting to these often lose their lives, when a regular course of mewould have rendered them absolutely safe. This remarkably in the present case. Numbers of people, imple, believe if they or their cattle were once dipthe sea, it is sufficient; as if the salt water were a

BITES OF POISONOUS ANIMALS.

charm against the effects of the bite. This, and such like whims, have proved fatal to many.

It is a common notion, if a person be bit by a dog which is not mad, that, if he should go mad afterwards, the person would be affected with the disorder at the same time; but this notion is too ridiculous to deserve a serious consideration. It is a good rule, however, to avoid dogs as much as possible, as the disease is often upon them, for some time before its violent symptoms appear. The hydrophobia has been occasioned by the bite of a dog which shewed no other symptoms of the disease but listlessness and a sullen disposition.

Though we do not mean to treat fully of the cure of the hydrophobia, yet we are far from reckoning it incurable. The notion that this disease could not be cured, has been productive of the most horrid consequences. It was usual either to abandon the unhappy persons, as soon as they were seized with the disease, to their fate, to bleed them to death, or to suffocate them between mattresses or feather-beds, &c. This conduct certainly deserved the severest punishment! We hope, for the honour of human nature, it will never again be heard of.

I have never had an opportunity of treating this disease and therefore can say nothing of it from my own experence: but the learned Dr Tissot says, it may be cured in the following manner:

1. The patient must be bled to a considerable quantity; and this may be repeated twice, or thrice, or even fourth-time, if circumstances require it.

2. The patient should be put, if possible, into a warn bath; and this should be used twice a-day.

3. He should every day receive two, or even three e mollient clysters.

4. The wound, and the parts adjoining to it, should be rubbed with the mercurial ointment twice a-day.

5. The whole limb which contains the wound should be rabbed with oil, and be wrapped up in an oily flan nel.

6. Every three hours a dose of Cob's powder should be taken in a cup of the infusion of lime tree and elde flowers. This powder is made, by rubbing together it

bar, each twenty-four grains; of musk, sixteen ss*.

The following bolus is to be given every night, and repeated in the morning, if the patient is not easy, ng it down with the infusion mentioned above; one drachm of Virginian snake-root in powder; of thire and asafœtida, ten grains each; of opium, one ; and, with a sufficient quantity of conserve, or rob er, make a bolus.

If there be a great nauseau at the stomach, with a mess in the mouth, thirty-five or forty grains of ipeinha, in powder, may be taken for a vomit.

The patient's food, if he takes any, must be light; mado, soups made of farinaceous or mealy vegeta-&c.

If the patient should long continue weak, and subterrors, he may take half a drachm of the Peruvian thrice a-day.

ee next poisonous animal which we shall mention is IPER. The grease of this animal rubbed into the d is said to cure the bite. Though that is all the catchers generally do when bit, we should not think fficient for the bite of an enraged viper. It would be more safe to have the wound well sucked †,

the Ormskirk medicine, as it is called, seems to me to consist of cinnabar. Though it is said to be infallible, as a preventive, could advise no one to trust to it alone. Indeed it is ordered to be in a manner which gives it more the appearance of a charm than medicine. Surely if a medicine is to produce any change in the it must be taken for some considerable time, and in sufficient 7.

the practice of sucking out poisons is very ancient; and indeed nothing more rational. Where the bite cannot be cut out, this is the most way for extracting the poison. There can be no danger in performoffice, as the poison does no harm unless it be taken into the body wound. The person who sucks the wound ought however to wash with frequently with salad-oil, which will secure him from even the conveniency. The *Psylli* in Africa, and the *Marsi* in Italy were for curing the bites of poisonous animals by sucking the wound; are told, that the Indians in North America practise the same at and afterwards rubbed with warm sallad-oil. A poultice of bread and milk, softened with sallad-oil, should like wise be applied to the wound; and the patient ought to drink freely of vinegar whey, or water-gruel with vinega in it, to make him sweat. Vinegar is one of the best me dicines which can be used in any kind of poison, and ought to be taken very liberally. If the patient be sick he may take a vomit. This course will be sufficient to cure the bite of any of the poisonous animals of the country.

With regard to poisonous insects, as the bee, the wasp the hornet, &c. their stings are seldom attended with danger, unless when a person happens to be stung by a grea number of them at the same time; in which case some thing should be done to abate the inflammation and swelling. Some, for this purpose, apply honey, others la pounded parsley to the part. A mixture of vinegar an Venice treacle is likewise recommended; but I have a ways found rubbing the part with warm salad-oil succeevery well. Indeed, when the stings are so numerous as a endanger the patient's life, which is sometimes the case he must not only have oily poultices applied to the par but should likewise be bled, and take some cooling me dicines, as nitre, or cream of tartar, and should drin plentifully of diluting liquors.

It is the happiness of this island to have very for poisonous animals, and those which we have are by n means of the most virulent kind. Nine-tenths of th effects attributed to poison or venom in this country, ar really other diseases, and proceed from quite differen causes.

We cannot however make the same observation with regard to poisonous vegetables. These abound ever where, and prove often fatal to the ignorant and unwary This indeed is chiefly owing to carelessness. Children ought early to be cautioned against eating any kind of fruit, roots; or berries, which they do not know, and a poisonous plants to which they can have access, ought, a far as possible, to be destroyed. This would not be s difficult a task as some people imagine.

Poisonous plants have no doubt their use, and the

\$24

to be propagated in proper places; but, as they often destructive to cattle, they should be rooted if all pasture grounds. They ought likewise, for the of the human species, to be destroyed in the neighood of all towns and villages; which, by the bye, te places where they most commonly abound. I have the poisonous hemlock, henbane, wolfsbane, and deadght-shade, all growing within the *environs* of a small where, though several persons within the memory se living in it, had lost their lives by one or other of plants; yet no method, that I could hear of, had ever taken to root them out; though this might be done ery trifling expence.

dom a year passes but we have accounts of several us poisoned by eating hemlock roots instead of parsor some kinds of fungus which they had gathered ushrooms. These examples ought to put people their guard with respect to the former, and to put tter entirely out of use. Mushrooms may be a deidish, but they are a dangerous one, as they are gew gathered by persons who do not know one kind gus from another, and take every thing for a mushwhich has the appearance.

might here mention many other plants and aniof a poisonous nature which are found in foreign iies; but, as our observations are chiefly intended is island, we shall pass these over. It may not er be amiss to observe, for the benefit of such of puntrymen as go to America, that an cilectual remeow said to be found for the bite of the rattle-snake .---prescription is as follows: take of the roots of planind horehound, in summer, roots and branches to-, a sufficient quantity; bruise them in a mortar, ueeze out the juice, of which give, as soon as posoone large spoonful; if the patient be swelled, you porce it down his throat. This generally will cure ; but, inds no relief in an hour after, you may give anoboonful, which never fails .- If the roots are dried, just be moistened with a little water. To the wound oe applied a leaf of good tobacco moistened with

We give this upon the faith of Dr Brookes, who say it was the invention of a negro; for the discovery of which he had his freedom purchased, and a hundred pounds *pe annum* settled upon him during life, by the General Assem bly of Carolina.

It is possible there may be in nature specific remedie for every kind of poison; but as we have very little fait in any of those which have yet been pretended to be do covered, we shall beg leave again to recommend the mostrict attention to the following rules, viz. That when a ny poisonous substance has been taken into the stomacit ought, as soon as possible, to be discharged by vomit clysters, and purges; and, when poison has been receied into the body by a wound, that it be expelled by me dicines which promote the different secretions, especial those of sweat, urine, and insensible perspiration; to whic may be joined antispasmodics, or such medicines as take of tention and irritation; the chief of which are opium, mus camphire, and asafœtida.

CHAP XLVII.

OF THE VENEREAL DISEASE.

IN the first edition of this book the venereal disease we omitted. The reasons however which at that time is duced me to leave it out have upon more mature conderation vanished. Bad consequences, no doubt, me arise from ignorant persons tampering with medicine this disorder; but the danger from that quarter seems be more than balanced by the great and solid advantage which must arise to the patient from an early knowledge his case, and an attention to a plan of regimen, which, is does not cure the disease, will be sure to render it me mild, and less hurtful to the constitution.

It is peculiarly unfortunate for the unhappy person who contract this disease, that it lies under a sort of or grace. This renders disguise necessary, and makes patient either conceal his disorder altogether, or apply

OF THE VENEREAL DISEASE.

se who promise a sudden and secret cure; but who act only remove the symptoms for a time, while they the disease deeper in the habit. By this means a slight ection, which might have been easily removed, is often verted into an obstinate, and sometimes incurable ady.

nother unfavourable circumstance attending this disis, that it assumes a variety of different shapes, and with more propriety be called an assemblage of disss, than any single one. No two diseases can require core different method of treatment than this does in its erent stages. Hence the folly and danger of trusting any particular nostrum for the cure of it. Such nosns are however generally administered in the same uner to all who apply for them, without the least reil to the state of the disease, the constitution of the patt, the degree of infection, and a thousand other circumices of the utmost importance.

Though the venereal disease is generally the fruit of awful embraces, yet it may be communicated to the ocent as well as the guilty. Infants, nurses, midwives, married women, whose husbands lead dissolute lives, often affected with it, and frequently lose their lives not being aware of their danger in due time. The appy condition of such persons, will certainly plead excuse, if any excuse be necessary, for endeavouring coint out the symptoms and cure of this too common hase.

o enumerate all its different symptoms, however, and race the disease minutely through its various stages, Id require a much larger space than falls to this part by subject; I shall therefore confine my observations fly to circumstances of importance, omitting such as either trifling, or which occur but seldom. I shall wise pass over the history of the disease, with the differmethods of treatment which it has undergone since it first introduced into Europe, and many other ciristances of a similar nature, all of which, though they ht tend to amuse the reader, yet could afford him little to useful knowledge.

THE virulent gonorrhœa is an unvoluntary discharge of infectious matter from the parts of generation in either sex. It generally makes its appearance within eight or ten days after the infection has been received : sometimes indeed it appears in two or three days, and at other times not before the end of four or five weeks, Previous to the discharge, the patient feels an itching with a small degree of pain in the genitals. Afterwards a thin glary matter begins to distil from the urinary passage, which stains the linen, and occasions a small degree of titillation, particularly in the time of making water; this gradually increasing, arises at length to a degree of heat and pain, which are chiefly perceived about the extremity of the urinary passage, where a slight degree of redness and inflammation likewise begin to appear.

As the disorder advances, the pain, heat of urine, and running increase, while fresh symptoms daily ensue. In men the erections become painful and involuntary, and are more frequent and lasting than when natural. This symptom is most troublesome when the patient is warm in bed. The pain which was at first only perceived towards the extremity, now begins to reach all up the urinary passage, and is most intense just after the patient has done making water. The running gradually recedes from the colour of seed, grows yellow, and at length puts on the appearance of matter.

When the disorder has arrived at its height, all the symptoms are more intense; the heat of urine is so great, that the patient dreads the making water; and though he feels a constant inclination this way, yet it is rendered with the greatest difficulty, and often only by drops : the involuntary erections now become extremely painful and frequent; there is also a pain, heat, and sense of fulness about the seat, and the running is plentiful and sharp, of a brown, greenish, and sometimes of a bloody colour.

By a proper treatment the violence of the symptoms

dually abates; the heat of urine goes off; the invotary erections, and the heat and pain about the seat, ome easier; the running also gradually decreases, ws whiter and thicker, till at last it entirely disaprs.

By attending to these symptoms. the gonorrhœa may be cerally distinguished from any other disease. There are ever some few disorders for which it may be mistaken, in ulcer in the kidnies or bladder, the *fluor albus* or tes in women, &c. But in the former of these, the ter comes away only with the urine, or when the incter of the bladder is open; whereas in a gonorrhœa, discharge is constant. The latter is more difficult to inguish, and must be known chiefly from its effects, as i, communicating the infection, &c.

EGIMEN.-When a person has reason to suspect. he has caught the venereal infection, he ought most tly to observe a cooling regimen, to avoid every thing. heating nature, as wines, spirituous liquors, rich ces, spiced, salted, high seasoned and smoke dried visions, &c. as also all aromatic and stimulating vegeees, as onions, garlic, shallot, nutmeg, mustard, cincon, mace, ginger, and such like. His food ought fly to consist of mild vegetables, milk, broths, light dings, panado, gruels, &c. His drink may be barwater, milk and water, decoctions of marsh-mallows liquorice, linseed-tea, or clear whey. Of these he int to drink plentifully. Violent exercise of all kinds. ccially riding on horseback, and venereal pleasures, are be avoided. The patient must beware of cold, and in the inflammation is violent, he ought to keep his

IEDICINE.—A virulent gonorrhœa cannot always be d speedily and effectually at the same time. The paought therefore not to expect, nor the physician to nise it. It will often continue for two or three weeks, sometimes for five or six, even where the treatment been very proper.

ometimes indeed a slight infection may be carried off few days, by bathing the parts in warm milk and r, and injecting frequently up the urethra a little

4.30

sweet oil or linseed-tea about the warmth of new milk. Should these not succeed in carrying off the infection they will at least have a tendency to lessen its virulence.

To effect a cure, however, astringent injections will be necessary. These may be various ways prepared, but I think those made with the white vitriol are both most safe and efficacious. They can be made stronger of weaker as circumstances may require; but it is best to begin with the more gentle, and increase their power is necessary. I generally order a drachm of white vitriol to be dissolved in eight or nine ounces of common or rose water, and an ordinary syringe full of it to be thrown up three or four times a-day. If this quantity does not perform a cure, it may be repeated, and the dose increase ed *.

Whether injections be used or not, cooling purges an always proper in the gonorrhœa. They ought not how ever to be of the strong or drastic kind. Whatever raise a violent commotion in the body increases the danger, an tends to drive the disease deeper into the habit. Procur ing two or three stools every second or third day for th first fortnight, and the same number every fourth or fift day for the second, will generally be sufficient to re move the inflammatory symptoms, to diminish the run ning, and to change its colour and consistence. It gra dually becomes more white and ropy as the virulenc abates $\frac{1}{7}$.

* Although it is now very common to cure the gonorrhœa by a tringent injections, there are still many practitioners who do not a prove this mode of practice. I can, however, from much experience assert, that it is both the most easy, elegant, and efficacious metho of cure; and that any bad consequences arising from it must be owing the ignorance or misconduct of the practitioner himself, and not the remedy. Many, for example, use strong preparations of lead, a of which are dangerous when applied to the internal surfaces of the body; others use escharotics, which inflame and injure the parts. have known a gonorrhœa actually cured by an injection made of gree tea, and would always recommend gentle methods where they will su ceed.

+ If the patient can swallow a solution of salts and manna, he m take six drachms, or, if his constitution requires it, an ounce of t former, with half an ounce of the latter. These may be dissolved in

When the inflammatory symptoms run high, bleeding tways necessary at the beginning. This operation, as ther topical inflammations, must be repeated accordto the strength and constitution of the patient, and emence and urgency of the symptoms.

Iedicines which promote the secretion of urine, are wise proper in this stage of the disorder. For this pose, an ounce of nitre and two ounces of gum-arabic, inded together, may be divided into twenty-four doses, of which may be taken frequently in a cup of the ent's drink. If these should make him pass his urine ften as to become troublesome to him, he may either them less frequently, or leave out the nitre altoge-, and take equal parts of gum-arabic and cream urtar. These may be pounded together, and a teaonful taken in a cup of the patient's drink four or five es a day. I have generally found this answer extremevell both as a diuretic, and for keeping the body gently m.

When the pain and inflammation are seated high tods the neck of the bladder, it will be proper frequentto throw up an emollient clyster, which, besides the bet of procuring stools, will serve as a fomentation to the umed parts.

coft poultices, when they can conveniently be applied

ilish pint of boiling water, whey, or thin water gruel, and taken early are morning.

an infusion of senna and tamarinds be more agreeable, two drachms are former, and an ounce of the latter, may be infused all night in an lish pint of boiling water. The infusion may be strained next mornand half an ounce of Glauber's salts dissolved in it. A tea-cupful his infusion may be taken every half hour till it operates.

hould the patient prefer an electuary, the following will be found to beer very well. Take of the lenitive electuary four ounces, cream of it two ounces, jalap in powder two drachms, rhubarb one drachm, and uch of the syrup of pale roses as will serve to make up the whole insoft electuary. Two or three tea-spoonfuls of this may be taken night, and about the same quantity next morning, every day that the tent chuses to take a purge.

he doses of the above medicines may be increased or diminished acing as the patient finds it necessary. We have ordered the salts to issolved in a large quantity of water, because it renders their operamore mild. to the parts, are of service. They may be made of the flour of linseed, or of wheat bread and milk, softened with fresh butter or sweat oil. When poultices cannot be conveniently used, cloths wrung out of warm water, or bladders filled with warm milk and water, may be applied. I have often known the most excruciating pains, during the inflammatory state of the gonorrhœa, relieved by one or other of these applications.

Few things tend more to keep off inflammation in the spermatic vessels, than a proper truss for the scrotum. It ought to be so contrived as to support the testicles, and should be worn from the first appearance of the disease till it has ceased some weeks.

The above treatment will sometimes remove the gonorheea so quickly, that the person will be in doubt whether he really laboured under that disease. This, however, is too favourable a turn to be often expected. It more frequently happens, that we are able only to procure an abatement or remission of the inflammatory symptoms, so far as to make it safe to have recourse to the great antidote mercury.

Many people, on the first appearance of a gonorrhoa, fly to the use of mercury. This is a bad plan. Mercury is often not at all necessary in a gonorrhœa; and when taken too early, it does mischief. It may be necessary to complete the cure, but can never be proper at the commencement of it.

When bleeding, purging, fomentations, and the other things recommended above, have eased the pain, softened the pulse, relieved the heat of urine, and rendered the involuntary erections less frequent, the patient may begin to use mercury in any form that is least disagreeable to him.

If he takes the common mercurial pill, two at night and one in the morning will be a sufficient dose at first Should they affect the mouth too much, the dose must be lessened; if not at all, it may be gradually increased to five or six pills in the day. If calomel be thought preferable, two or three grains of it, formed into a bolue with a little of the conserve of hips, may be taken at bedtime, and the dose gradually increased to eight or ten-

\$32

ns. One of the most common preparations of mercury in use is the corrosive sublimate. This may be tain the manner afterwards recommended under the irmed lues or pox. I have always found it one of the t safe and efficacious medicines when properly used.

the above medicines may either be taken every day or y other day, as the patient is able to bear them. They nt never to be taken in such quantity as to raise a saion, unless in a very slight degree. The disease be more safely, and as certainly, cured without a ration as with it. When the mercury runs off by the th, it is not so successful in carrying off the disease, as n it continues longer in the body, and is discharged ually.

could the patient be purged or griped in the night by mercury, he must take an infusion of senna, or some "purgative, and drink freely of water-gruel to prebloody stools, which are very apt to happen should patient catch cold, or if the mercury has not been prepared. When the bowels are weak and the meris apt to gripe or purge, these disagreeable conseces may be prevented by taking, with the above pills llus, half a drachm or two scruples of diascordium, or re Japonic confection.

prevent the disagreeable circumstance of the merss affecting the mouth too much, or bringing on a saoon, it may be combined with purgatives. With this the laxative mercurial pill has been contrived, the usuce of which is half a drachm, or three pills, night morning, to be repeated every other day; but the way is for the patient to begin with two, or even with ill, gradually increasing the dose.

such persons as can neither swallow a bolus nor a mercury may be given in a liquid form, as it can be inded even in a watery vehicle, by means of gum-; which not only serves this purpose, but likewise ints the mercury from affecting the mouth, and rent in many respects a better medicine *.

achms; let the quicksilver, be rubbed with the mucilage, in a

It happens very fortunately for those who cannot | brought to take mercury inwardly, and likewise for pe sons whose bowels are too tender to bear it, that an e ternal application of it will answer equally well, and some respects better. It must be acknowledged, th mercury, taken inwardly for any length of time, great weakens and disorders the bowels; for which reaso when a plentiful use of it becomes necessary, we would pr fer rubbing to the mercurial pills. The common mercu al or blue ointment will answer very well. Of that whi is made by rubbing together equal quantities of hog's la and quicksilver, about a drachm may be used at a tim The best time for rubbing it on is at night, and the me proper place the inner side of the thighs. The patie should stand before the fire when he rubs, and should wear flannel drawers next his skin at the time he is usi ointment. If ointment of a weaker or stronger kind be ed, the quantity must be increased or diminished in p portion.

If, during the use of the ointment, the inflammation the genital parts, together with the heat and feverishne should return, or if the mouth should grow sore, the gutender, and the breath become offensive, a dose or two Glauber's salts, or some other cooling purge, may be ken, and the rubbing intermitted for a few days. As so however, as the signs of spitting are gone off, if the vilency be not quite corrected, the ointment must be repoed, but in smaller quantities, and at longer intervals the before. Whatever way mercury is administered, its must be persisted in as long as any virulency is suspecto remain.

During this, which may be called the second stage the disorder, though so strict a regimen is not necess as in the first or inflammatory state, yet intempera of every kind must be avoided. The food must be light

marble mortar, until the globules of mercury entirely disappear; a wards add gradually, still continuing the trituration, half an ounce balsamic syrup, and eight ounces of simple cinnamon-water. Two to spoonfuls of this solution may be taken night and morning. Some to on this the best form in which quicksilver can be exhibited for the of a gonorrheea.

OF GLEETS.

in, and of easy digestion ; and the greatest indulgence, may be allowed with respect to drink is, a little wine ted with a sufficient quantity of water. Spirituous ors are to be avoided in every shape. I have often wn the inflammatory symptoms renewed and heightenthe running increased, and the cure rendered exmely difficult and tedious, by one fit of excessive drink-

When the above treatment has removed the heat of u-, and soreness of the genital parts ; when the quantity unning is considerably lessened, without any pain or lling in the groin or testicle supervening; when the cent is free from involuntary erections; and lastly when running becomes pale, whitish, thick, void of ill Il, and tenacious or ropy; when all, or most symptoms ear, the gonorrhoea is arrived at its last stage, and we gradually proceed to treat it as a gleet with astringent agglutinating medicines.

OF GLEETS.

gonorrhœa frequently repeated, or improperly treatoften ends in a gleet, which may either proceed from exation, or from some remains of the disease. It is ever of the greatest importance in the cure of the tt, to know from which of these causes it proceeds. een the discharge proves very obstinate, and receives ee or no check from astringent remedies, there is ground uspect that it is owing to the latter : but if the drain is instant, and is chiefly observable when the patient is stiated by lascivious ideas, or upon straining to go to 1, we may reasonably conclude that it is chiefly owing the former.

in the cure of a gleet proceeding from relaxation, the cipal design is to brace, and restore a proper degree ension to the debilitated and relaxed vessels. For purpose, besides the medicines recommended in the orrhœa, the patient may have recourse to stronger and e powerful astringents, as the Peruvian bark *, alum,

The Peruvian bark may be combined with other astringents, and pre-1 in the following manner :

OF GLEETS,

vitriol, galls, tormentil, bistort, baldustines, tincture of gum kino, &c. The injections may be rendered more astringent by the addition of a few grains of alum, or increasing the quantity of vitriol as far as the parts are able to bear it.

The last remedy which we shall mention in this case is the cold bath, than which there is not perhaps a more powerful bracer in the whole compass of medicine. It ought never to be omitted in this species of gleet, unless there be sc-nething in the constitution of the patient which renders the use of it unsafe. The chief objections to the use of the cold bath are, a full habit, and an unsound state of the viscera. The danger from the former may always be lessened, if not removed, by purging and bleeding; but the latter is an insurmountable obstacle, as the pressure of the water, and the sudden contraction of the external vessels, by throwing the blood with too much force upon the internal parts, are apt to occasion ruptures of the vessels, or a flux of humours upon the diseased organs. But where no objection of this kind prevails, the patient ought to plunge over head in water every morning fasting, for three or four weeks together. He should not however stay long in the water, and should take care to have his skin dried as soon as he comes out.

The regimen proper in this case is the same as was mentioned in the last stage of the gonorrhœa: The diet must be drying and astringent, and the drink Spa, Pyrmont, or Bristol waters, with which a little claret or red wine may sometimes be mixed. Any person may now afford to drink these waters, as they can be every where prepared at almost no expence, by a mixture of common chalk and oil of vitriol.

When the gleet does not in the smallest degree yield to these medicines, there is reason to suspect that it proceeds from ulcers. In this case recourse must be had to mercury, and such medicines as tend to correct any predomi-

Take of Peruvian bark bruised six drachms, of fresh galls bruised two drachms; boil them in a pound and a half of water to a pound; to the strained liquor add three ounces of the simple tincture of the bark. A small tea-cupful of this may be taken three times a-day, adding to each cup fifteen or twenty drops of the acid elixir of vitriol.

OF GLEETS.

acrimony with which the juices may be affected, as decoction of China, sarsaparilla, sassafras, or the

r Fordyce says, he has seen many obstinate gleets wo, three, or four years standing, effectually cured mercurial inunction, when almost every other medihas been tried in vain. Dr Chapman seems to be es same opinion; but says, 'he has always found the ury succeed best in this case when joined with tereinate and other agglutinating medicines. For which m, the Doctor recommends pills made of calomel and cce turpentine *; and desires that their use may be acanied with a decoction of guaiacum or sarsaparilla. he last kind of remedy which we shall mention for ure of ulcers in the urinary passage, are the suppug candles or bougies: as these are prepared various and are generally to be bought ready made, it is tess to spend time in enumerating the different ingres: of which they are composed, or teaching the manff preparing them. Before a bougie be introduced into rrethra, however, it should be smeared all over with oil, to prevent it from stimulating too suddenly; it the suffered to continue in from one to seven or eight , according as the patient can bear it. Obstinate ulare not only often healed, but tumours and excrescenthe urinary passages taken away, and an obstruction ine removed by means of bougies. Obstinate gleets be removed by the use of bougies.

OF THE SWELLED TESTICLE.

re swelled testicle may either proceed from infection contracted, or from the venereal poison lurking in lood : the latter indeed is not very common, but the er frequently happens, both in the first and second

ake Venice turpentine, boiled to a sufficient degree of hardness, ounce, calomel, half a drachm. Let these be mixed, and formed sty pills, of which five or six may be taken night and morning. ing the use of these pills, the mouth should grow sore, or the become offensive, they must be discontinued till these symptoms ear. stages of gonorrhœa; particularly when the running is unseasonably checked, by cold, hard drinking, strong drastic purges, violent exercise, the too early use of astringent medicines, or the like.

In the inflammatory stage bleeding is necessary, which must be repeated according to the urgency of the symptoms *. The food must be light, and the drink diluting. High seasoned food, flesh, wines, and every thing of a heating nature, are to be avoided. Fomentations are of singular service. Poultices of bread and milk, softened with fresh butter or oil, are likewise very proper, and ought constantly to be applied when the patient is in bed : when he is up, the testicles should be kept warm, and supported by a bag or truss, which may easily be contrived in such a manner as to prevent the weight of the testicle from having any effect.

If it should be found impracticable to clear the testicle by the cooling regimen now pointed out, and extended according to circumstances, it will be necessary to lead the patient through such a complete antivenereal course as shall ensure him against any future uneasiness. For this purpose, besides rubbing the mercurial ointment on the part, if free from pain, or on the thighs, as directed in the gonorrhœa, the patient must be confined to bed, if necessary, for five or six weeks, suspending the testicle all the while with a bag or truss, and plying him inwardly with strong decoctions of sarsaparilla.

When these means do not succeed, and there is reason to suspect a scrophulous or cancerous habit, either o which may support a scirrhous induration, after the vene real poison is corrected, the parts should be fomented daily with a decoction of hemlock, the bruised leaves o which may likewise be added to the poultice, and the ex tract at the same time taken inwardly [†]. This practice i strongly recommended by Dr Stork in scirrhous and can cerous cases ; and Mr Fordyce assures us, that by thi

* I have been accustomed for some time past to apply leeches to in flamed testicles, which practice has always been followed with the mos happy effects.

+ The extract of hemlock may be made into pills, and taken in the manner directed under the article Cancer.

OF BUBOES.

ethod he has cured diseased testicles of two or three ars standing, even when ulcerated, and when the scirus had begun to be affected with pricking and lancing ins.

OF BUBOES.

VENEREAL buboes are hard tumours seated in the groin, casioned by the venereal poison lodged in this part. ney are of two kinds; viz. such as proceed from a recent fection, and such as accompany a confirmed lues.

The cure of recent buboes, that is, such as appear soon er impure coition, may be first attempted by *dispersion*, id, if that should not succeed, by *suppuration*. To prooute the dispersion of a bubo, the same regimen must be served as was directed in the first stage of a gonorrhœa me patient must likewise be bled, and take some cooling arges, as the decoction of tamarinds and senna, Glauber's its, and the like. If, by this course, the swelling and mer inflammatory symptoms abate, we may safely proed to the use of mercury, which must be continued till e venerial virus is quite subdued *.

But if the bubo should, from the beginning, be attended th great heat, pain, and pulsation, it will be proper to comote its suppuration. For this purpose the patient my be allowed to use his ordinary diet, and to take now d then a glass of wine. Emollient cataplasms, consistg of bread and milk, softened with oil or fresh butter, may applied to the part; and in cold constitutions, where tumour advances slowly, white lilly-roots boiled, or ced onions raw, and a sufficient quantity of yellow basicon, may be added to the poultice.

When the tumour is ripe, which may be known by its nical figure, the softness of the skin, and a fluctuation matter plainly to be felt under the finger, it may be oned either by a caustic or a lancet, and afterwards dresswith digestive ointment.

It sometimes however happens, that buboes can neier be dispersed nor brought to a suppuration, but re-

* For the dispersion of a bubo, a number of leeches applied to the part acted will be found equally efficacious as in the inflamed testacle.

OF BUBOES.

main hard, indolent tumours. In this case the indurated glands must be consumed by caustic; if they should be come scirrhous, they must be dissolved by the application of hemlock, both externally and internally, as directed in the scirrhous testacle.

OF CHANCRES.

CHANCRES are superficial, callous, eating ulcers; whic may happen either with or without a gonorrhœa. The are commonly seated about the glans, and make their ap pearance in the following manner: First a little red pimpl arises, which soon becomes pointed at top, and is fille with a whitish matter inclining to yellow. This pimple i hot, and itches generally before it breaks: afterwards i degenerates into an obstinate ulcer, the bottom of which i usually covered with a viscid mucus, and whose edges gra dually become hard and callous. Sometimes the first ap pearance resembles a simple excoriation of the cuticle which however, if the cause be venereal, soon becomes true chancre.

A chancre is sometimes a primary affection, but it i much oftner symptomatic, and is the mark of a confirme lues. Primary chancres discover themselves soon after im pure coition, and are generrally seated in parts covere with a thin cuticle, as the lips, the nipples of women, th glans penis of men. &c *.

When a chancre appears soon after impure coition, in treatment is nearly similar to that of the virulent gonor rhœa. The patient must observe the cooling regimer lose a little blood, and take some gentle doses of salts an manna. The parts affected ought frequently to be bath ed, or rather soaked, in warm milk and water, and,

* When venereal ulcers are seated in the lips, the infection may l comunicated by kissing. I have seeu very obstinate venereal ulcers in the lips, which I had all the reason in the world to believe were communicated in this manner.

Nurses ought to beware of suckling infected children, or having the breasts drawn by persons tainted with the venereal disease. This caution is peculiarly necessary for nurses who reside in the neighbourhood great towns.

e inflammation be great, an emollient poultice or cataasm may be applied to them. This course will, in most ses, be sufficient to abate the imflammation, and prepare e patient for the use of mercury.

Symptomatic chancres are commonly accompanied th ulcers in the throat, nocturnal pains, scurfy erupns about the roots of the hair, and other symptoms of confirmed lues. Though they may be seated in any of parts mentioned above, they commonly appear upon private parts, or the inside of the thigh. They are to less painful, but frequently much larger and harder in primary chancres. As their cure must depend upon at of the pox, of which they are only a symptom, we shall be no further notice of them, till we come to treat of a unfirmed lues *.

Thus we have related most of the symptoms which acinpany or succeed a violent gonorrhœa, and have also ren a short view of their proper treatment; there are, wever, several others which sometimes attend this disce, as a strangury or obstruction of the urine, a phymosis, raphymosis, &c.

A strangury may be occasioned either by a spasmodic instriction, or an inflammation of the urethra, and parts abut the neck of the bladder. In the former case, the paant begins to void his urine with tolerable ease; but, ssoon as it touches the galled or inflamed urethra, a sudin constriction takes place, and the urine is voided by urts, and sometimes by drops only. When the strantry is owing to an inflammation about the neck of the edder, there is a constant heat and uneasiness of the part, merpetual desire to make water, while the patient can onrender a few drops, and a troublesome *tenesmus*, or conint inclination to go to stool.

When the strangury is owing to spasm, such medines as tend to delute and blunt the salts of the urine Ill be proper. For this purpose, besides the common

* I have found it answer extremely well to sprinkle chancres twice ay with calomel. This will often perform a cure without any other lication whatever. If the chancres are upon the *glans*, they may be shed with milk and water a little warm, and afterwards the calomel y be applied as above. diluting liquors, soft and cooling emulsions, sweetened with the syrup of poppies, may be used. Should these not have the desired effect, bleeding, and emollient fomentations will be necessary.

When the complaint is evidently owing to an inflammation about the neck of the bladder, bleeding must be more liberally performed, and repeated according to the urgency of the symptoms. After bleeding, if the strangury still continues, soft clysters, with a proper quantity of laudanum in them, may be administered, and emollient fomentations applied to the region of the bladder. At the same time, the patient may take every four hours a teacupful of barley water, to an English pint of which, six ounces of the syrup of marsh-mallows, four ounces of the oil of sweet almonds, and half an ounce of nitre, may be added. If these remedies should not relieve the complaint, and a total suppression of urine should come on, bleeding must be repeated, and the patient set in a warm bath up to the middle. It will be proper in this case to discontinue the diuretics, and to draw off the water with a catheter; but as the patient is seldom able to bear its being introduced, we would rather recommend the use of mild bougies. These often lubricate the passage, and greatly facilitate the discharge of urine. Whenever they begin to stimulate or give any uneasiness, they may be withdrawn.

The *phymosis* is such a constriction of the prepuce over the glans, as hinders it from being drawn backwards; the *paraphymosis*, on the contrary, is such a constriction of the prepuce behind the glans, as hinders it from being brought forward.

The treatment of these symptoms is so nearly the same with that of the virulent gonorrhœa, that we have no occasion to enlarge upon it. In general, bleeding, purging poultices, and emollient fomentations are sufficient. Should these, however, fail of removing the stricture, and the parts be threatened with a mortification, twenty or thirty grains of ipecacuanha, and one grain of emetic tartar may be given for a vomit, and may be worked off with warm water or thin gruel.

It sometimes happens, that, in spite of all endeavours

OF CHANCRES.

the contrary, the inflammation goes on, and symptoms a beginning mortification appear. When this is the se, the prepuce must be scarified with a lancet, and, necessary, divided, in order to prevent a strangulation, d set the imprisoned glans at liberty. We shall not scribe the manner of performing this operation, as it ght always to be done by a surgeon. When a mortifiion has actually taken place, it will be necessary, beres performing the above operations, to foment the rts frequently with cloths wrung out of a strong decocm of camomile flowers and bark, and to give the pant a drachm of the bark in powder every two or three urs.

With regard to the *priapism*, *chordee*, and other distions of the *penis*, their treatment is no way different in that of the gonorrhœa. When they prove very inblesome, the patient may take a few drops of laudanum might, especially after the operation of a purgative ough the day.

OF A CONFIRMED LUES.

We have hitherto treated of those affections in which wenereal poison is supposed to be confined chiefly to particular part by which it was received, and shall take a view of the lues in its confirmed state; that then the poison is actually received into the blood, circulating with it through every part of the body, es the several secretions, and renders the whole habit red.

the symptoms of a confirmed lues are, buboes in the 1, pains of the head and joints, which are peculiarly plesome in the night, or when the patient is warm in scabs and scurfs in various parts of the body, espe-7 on the head, of a yellowish colour, resembling a y-comb; corroding ulcers in various parts of the bowhich generally begin about the throat, from whence creep gradually, by the palate, towards the cartilage e nose, which they destroy; excrescences or exostorise in the middle of the bones, and their spongy become brittle, and break upon the least accident;

3K 2

at other times they are soft, and bend like wax; the conglobate glands become hard and callous, and form in the neck, arm-pits, groin, and mesentery, hard moveable tumours, like the king's evil; tumours of different kinds are likewise formed in the lymphatic vessels, tendons, ligaments, and nerves, as the gummata, ganglia, noder, tophs, &cc.; the eyes are affected with itching, pain, redness, and sometimes with total blindness, and the ears with a singing noise, pain, and deafness, whilst their internal substance is exulcerated and rendered carious; at length all the animal, vital, and natural functions are depraved the face becomes pale and livid; the body emaciated and unfit for motion, and the miserable patient falls into an trophy or wasting consumption.

Women have symptoms peculiar to the sex; as cancer of the breast; a suppression or overflowing of the menses the whites; hysteric affection; an inflammation, abscess scirrhus, gangrene, cancer, or ulcer of the womb; they ar generally either barren or subject to abortion; or, if the bring children into the world, they have an universal ery sipelas, are half rotten, and covered with ulcers.

Such is the catalogue of symptoms attending this dread ful disease in its confirmed state. Indeed they are seldor all to be met with in the same person, or at the same time so many of them, however, are generally present as are su ficient to alarm the patient; and if he has reason to suspe the infection is lurking in his body, he ought immediate to set about the expulsion of it, otherwise the most tragic consequences will ensue.

The only certain remedy hitherto known in Europ for the cure of this disease, is mercury, which may is used in a great variety of forms, with nearly the same su cess. Some time ago it was reckoned impossible to cu a confirmed lues without a salivation. This method now, however, pretty generally laid aside, and mercury found to be as efficacious, or, rather more so, in expellithe venereal poison, when administered in such a mann as not to run off by the salivary glands.

Though many are of opinion, that the mercurial on ment is as efficacious as any other preparation of that n neral; yet experience has taught me to think otherwi

OF A CONFIRMED LUES.

ave often seen the most obstinate venereal cases, where at quantities of mercurial ointment had been used in n, yield to the saline preparations of mercury. Nor I singular in this opinion. My ingenuous friend, Mr re, an eminent surgeon of this city, assures me; that some time past, he has employed, in venereal cases, line preparation of mercury with most happy success. This preparation, rubbed with a sufficient quantity of any d powder, he applies, in small portions to the tongue, ere, with a gentle degree of friction, it is immediately orbed, and produces its full effect upon the system, hout doing the least injury to the stomach or bowels; natter of the greatest importance in the application of most active and powerful remedy.

It is impossible to ascertain either the exact quantity medicines that must be taken, or the time they ought to continued, in order to perform a cure. These will ever y according to the constitution of the patient, the season he year, the degree of infection, the time it has lodged the body, &c. But though it is difficult, as Astruc obves, to determine a priori, what quantity of mercury will, the whole, be necessary to cure this distemper comtely; yet it may be judged of a posteriori, from the aement and ceasing of the symptoms. The same author is, that commonly not less than two ounces of the strong reurial ointment is sufficient, and not more than three or tr ounces necessary.

The only chemical preparation of mercury which we ll take notice of, is the corrosive sublimate. This is some time ago brought into us for the venereal disce in Germany, by the illustrious Baron Van Swieten; I was soon after introduced into Britain by the learned John Pringle, at that time physician to the army. ce method of giving it is as follows: One grain of corive sublimate is dissolved in two ounces of French branor malt spirits; and of this solution, an ordinary ta--spoonful, or the quantity of half an ounce, is to be ten twice a-day, and to be continued as long as any "ptoms of the disorder remain. To those whose stomuch cannot bear the solution, the sublimate may be given in form of pill *.

Several roots, woods, and barks, have been recommended for curing the venereal disease; but none of them have been found, upon experience, to answer the high encomiums which had been bestowed upon them. Though no one of these is to be depended upon alone, yet, when joined with mercury, some of them are found to be very beneficial in promoting a cure. One of the best we know yet is sarsa parilla, which may be prepared and taken according to the directions in the Appendix \dagger .

The mezereon-root is likewise found to be a powerful assistant in the sublimate, or any other mercurial. In may either be used alone with sarsaparilla, as directed in the Appendix, or by itself. Those who chuse to use the mezereon by itself, may boil an ounce of the fresh bark taken from the root, in twelve English pints of water to eight, adding towards the end an ounce of liquorice. The dose of this is the same as the decoction of sarsaparilla.

We have been told that the natives of America cure the venereal disease, in every stage, by a decoction of the root of a plant called the Lobelia. It is used either fresh or dried; but we have no certain accounts with regard to the proportion. Sometimes they mix other roots with it, as those of the ranunculus, the ceanothos, & c.; but whether these are designed to disguise or assist it, is doubtful. The patient takes a large draught of the decoction early in the morning, and continues to use it for his ordinary drink through the day \ddagger .

* The sublimate may be given in distilled water, or any other liquor that the patient chuses. I commonly order ten grains to be dissolved in an ounce of the spirit of wine, for the conveniency of carriage, and let the patient take twenty or thirty drops of it night and morning in half a glass of brandy or other spirits. Mr Debraw, an ingenuous chymist of this place, informs me, that he prepares a salt of mercury much more mild and gentle in its operation than the sublimate, though equally efficacious.

+ See Appendix, Decoct. of Sarsaparilla.

‡ Though we are still very much in the dark with regard to the method of curing this disease among the natives of America, yet it is

GENERAL OBSERVATIONS.

any other roots and woods might be mentioned which been extolled for curing the venereal disease, as the a-root, the roots of soap-wort, burdock, &.c. as also vood of guaiacum and sassafras; but as none of these been found to possess virtues superior to those almentioned, we shall, for the sake of brevity, pass over, and shall conclude our observations on this se, with a few general remarks concerning the promanagement of the patient, and the nature of the inon.

GENERAL OBSERVATIONS.

re condition of the patient ought always to be coned previous to his entering upon a course of mercury y form. It would be equally rash and dangerous to mister mercury to a person labouring under any vioacute disease; as a putrid fever, pleurisy, peripneu-, or the like. It would likewise be dangerous in chronic cases; as a slow hectic fever, or the last of a consumption. Sometimes, however, these disproceed from a confirmed lues; in which case it he necessary to give mercury. In chronic diseases of dangerous nature, as the asthma, the gravel, and like, mercury, if necessary, may be safely admini-... If the patient's strength has been greatly exhaustsickness, labour, abstinence, or any other cause, the mercury must be postponed, till by time, rest, and rishing diet, it can be sufficiently restored.

ly affirmed, that they do cure it with speed, safety, and sucd that without the least knowledge of mercury. Hence it bein object of considerable importance to discover their method of This might surely be done by making trials of the various that are found in those parts, and particularly of such as the are known to make use of. All people in a rude state take edicines chiefly from the vegetable kingdom, and are often posof valuable secrets with regard to the virtues of plants, of which alightened nations are ignorant. Indeed, we make no doubt, but ants of our own growth, were proper pains taken to discover them, be found as efficacious in curing the venereal disease as those of a. It must, however, be remembered, that what will cure the disease in one country, will not always be found to have equal sucanother. Mercury ought not to be administered to women during the menstrual flux, or when the period is near at hand Neither should it be given in the last stage of pregnancy If, however, the woman be not near the time of her delivery, and circumstances render it necessary, mercur may be given, but in smaller doses, and at greater inter vals than usual : with these precautions, both the mothe and child may be cured at the same time; if not, th disorder will at least be kept from growing worse, till th woman be brought to bed, and sufficiently recovered when a more effectual method may be pursued, which, she suckles her child, will, in all probability, be sufficient for the cure of both.

Mercury ought always to be administered to infam with the greatest caution. Their tender condition unfathem for supporting a salivation, and makes it necessar to administer even the mildest preparations of mercury 1 them with a sparing hand. A similar conduct is reconmended in the treatment of old persons, who have the misfortune to labour under a confirmed lues. No doul the infirmities of age must render people less able to undergo the fatigues of a salivation; but this, as was forme ly observed, is never necessary; besides, we have gen rally found, that mercury had much less effect upon veold persons than on those who were younger.

Hysteric and hypochondriac persons, and such as a subject to an habitual diarrhœa or dysentery, or to fr quent and violent attacks of the epilepsy, or who are a flicted with the scrophula, or the scurvy, ought to be ca tious in the use of mercury. Where any one of these d orders prevail, it ought either, if possible, to be cured, at least paliated, before the patient enters upon a course mercury. When this cannot be done, the mercury m be administered in smaller doses, and at longer interv than usual

The most proper seasons for entering upon a course mercury, are the spring and autumn, when the air is o moderate warmth. If the circumstances of the case, he ever, will not admit of delay, we must not defer to cure on account of the season, but must administer mercury; taking care, at the same time, to keep the p it's chamber warmer or cooler, according as the season the year requires.

449

The next thing to be considered is the preparation neary to be observed before we proceed to administer a rse of mercury. Some lay great stress upon this cirnstance, observing, that by previously relaxing the vesand correcting any disorder which may happen to vail in the blood, not only the mercury will be disposto act more kindly, but many other inconveniences be prevented.

We have already recommended bleeding and gentle ges, previous to the administration of mercury, and i only now add, that these are always to be repeated ording to the age, strength, constitution, and other umstances of the patient. Afterwards, if it can be veniently done, the patient ought to bathe once or ce a-day, for a few days, in lukewarm water. His in the mean time must be light, moist, and cooling. ne, and all heating liquors, also violent bodily exercise, all great exertions of the mind, are carefully to be ided.

It proper regimen is likewise to be observed by such as runder a course of mercury. Inattention to this not onendangers the patient's life, but often also disappoints of a cure. A much smaller quantity of mercury will sufficient for the cure of a person who lives low, keeps im, and avoids all manner of excess, than of one who not endure to put the smallest restraint upon his appes: Indeed it but rarely happens that such are thoroughcured.

There is hardly any thing of more importance, either preventing or removing venereal infection than cleanss. By an early attention to this, the infection might in be prevented from entering the body; and, where as already taken place, its effects may be greatly mitied. The moment any person has reason to suspect the has received the infection, he ought to wash the ts with water and spirits, sweet oil, or milk and wa-; a small quantity of the last may likewise be injected the urethra, if it can be conveniently done. Whether disease at first took its rise from dirtiness is hard to

3 L

say; but wherever that prevails, the infection is found in its greatest degree of virulence, which gives ground to believe that a strict attention to cleanliness would go far towards extirpating it altogether *.

When the venereal disease has been neglected or improperly treated, it often becomes a disorder of the habit. In this case, the cure must be attempted by restoratives, as a milk diet, the decoction of sarsaparilla, and such like, to which mercury may be occasionally added. It is a common practice in North Britain to send such patients to drink goat-whey. This is a very proper plan, provided the infection has been totally eradicated before-hand; but when that is not the case, and the patient trusts to the whey, for finishing his cure, he will often be disappointed. I have frequently known the disease return with all its virulence after a course of goat-whey, even when that course had been thought quite sufficient for completing the cure.

One of the most unfortunate circumstances attending patients in this disease, is the necessity they are often laid

* I have not only often seen a recent infection carried off in a few days by means of cleanliness, viz. bathing, fomentations, injections, &c. but have likewise found it of the greatest advantage in the more advanced stages of the disease. Of this I had lately a very remarkable instance in a man whose penis was almost wholly consumed by venereal ulcers; the matter had been allowed to continue on the sores, without any care having been taken to clean them, till notwithstanding the use of mercury and other medicines, it had produced the effects above mentioned. I ordered warm milk and water to be injected three or four times a day into all the sinuous ulcers, in order to wash out the matter; after which they were stuffed with dry lint to absorb the fresh matter as it was generated. The patient at the same time took every day half a grain of the corrosive sublimate of mercury, dissolved in an ounce of brandy, and drank an English quart of the decoction of sarsaparilla. By this treatment, in about six weeks, he was perfectly cured and, what was very remarkable, a part of the penis was actually regenerated.

Doctor Gilchrist has given an account of a species of the *lues vene*rea which prevails in the west of Scotland, to which the natives give the name of Sibbins, or Sivvins. The Doctor observes, that the spreading of this disease is chiefly owing to a neglect of cleanliness, and seems to think, that by due attention to that virtue, it might be extirpated. The treatment of this disease is similar to that of a confirmed lues or pox. The yaws, a disease which is now very common both in America and the West India islands may be also cured in the same manner.

OF A CONFIRMED LUES.

ler of being soon well. This induces them to take dicine too fast, and to leave it off too soon. A few ins more of medicine, or a few days longer confinent, would often be sufficient to perfect the cure; ereas, by neglect of these, a small degree of virulence ill left in the humours, which gradually vitiates, and ength contaminates the whole mass. To avoid this, would advise, that the patient should never leave off ng medicine immediately upon the disappearing of the uptoms, but continue it for some time after, gradually ening the quantity, till there is sufficient ground to eve that the disease is entirely eradicated.

tt is not only difficult, but absolutely impossible, to ortain the exact degree of virulence that may attend disease; for which reason it will always be a much of rule to continue the use of medicine too long, than eave it off too soon. This seems to be the leading tim of a modern practitioner of some note for the venedisease, who always orders his patient to perform a rantine of at least forty days, during which time he es forty bottles of, I suppose, a strong decoction of uparilla, or some other anti-venereal simple. Whotakes this method, and adds a sufficient quantity of cosive sublimate, or some other active preparation of cury to the decoction, will seldom fail to cure a conted lues.

is peculiarly unfortunate for the cure of this disease, not one in ten of those who contract it, are either or willing to submit to a proper plan of regimen. patient is willing to take medicine ; but he must folhis business, and, to prevent suspicions, must eat drink like the rest of the family. This is the true ce of nine-tenths of all the mischief arising from the real disease. I never knew the cure attended with great difficulty or danger where the patient strictly wed the physician's advice : but a volume would not ufficient to point out the dreadful consequences which eed from an opposite conduct. Scirrhous testicles, rous sore throats, madness, consumptions, carious bones, a rotten progeny, are a few of the blessings derived this source.

There is a species of false reasoning, with regard to this disease, which proves fatal to many. A person of a sound constitution contracts a slight degree of the disorder. He gets well without taking any great care, or using much medicine, and hence concludes that this will always be the case. The next time the disease occurs though ten times more virulent, he pursues the same course, and his constitution is ruined. Indeed the dif. ferent degrees of virulence in the small-pox are not great. er than in this disease, though, as the learned Sydenham observes, in some cases the most skilful physicians can not cure, and in others the most ignorant old womar cannot kill the patient in that disorder. Though a good constitution is always in favour of the patient, yet too great stress may be laid upon it. It does not appear from observation, that the most robust constitution is able to overcome the virulence of the venereal contagion, after i has got into the habit. In this case a proper course of medicine is always indispensably necessary.

Although it is impossible, on account of the different degrees of virulence, &c. to lay down fixed and certain rules for the cure of this disease, yet the following gene ral plan will always be found safe, and often successful viz. to bleed and administer gentle purges with diuretic during the inflammatory state, and as soon as the symp toms of inflammation are abated, to administer mercury in any form that may be most agreeable to the patient. The same medicine, assisted by the decoction of sarsaparilla and a proper regimen, will not only secure the constitution against the further progress of a confirmed pox, but will generally perform a complete cure.

CHAP. XLVIII.

DISEASES OF WOMEN.

MOMEN, in all civilized nations, have the management of domestic affairs, and it is very proper the should, as nature has made them less fit for the more activ

I laborious employments. This indulgence, however, generally carried too far; and females, instead of bebenefited by it, are greatly injured, from the want of rcise and free air. To be satisfied of this, one need y compare the fresh and ruddy looks of a milk-maid, h the pale complexion of those females whose whole e is spent within doors. Though Nature has made an lent distinction between the male and female with reid to bodily strength and vigour, yet she certainly nemeant, either that the one should be always without, lhe other always within doors.

The confinement of females, besides hurting their are and complexion, relaxes their solids, weakens their ads, and disorders all the functions of the body. Hence ceed obstructions, indigestion, flatulence, abortions, the whole train of nervous disorders. These not onunfit women for being mothers and nurses, but often der them whimsical and ridiculous. A sound mind tends so much upon a healthy body, that where the ter is wanting the former is rarely to be found.

have always observed, that women who were chiefly ployed without doors, in the different branches of bandry, gardening, and the like, were as hardy as in husbands, and that their children were likewise ang and healthy. But as the bad effects of confineint and inactivity upon both sexes have been already wn, we shall proceed to point out those circumstances the structure and design of females, which subject them beculiar diseases; the chief of which are, their monthly contions, pregnancy, and child-bearing. These indeed not properly be called diseases, but from the delicacy the sex, and their being often improperly managed in th situations, they become the source of numerous cainties.

OF THE MENSTRUAL DISCHARGE.

EMALES generally begin to menstruate about the age ifteen, and leave it off about fifty, which renders these periods the most critical of their lives. About the : appearance of this discharge, the constitution under-

454

goes a very considerable change, generally indeed for the better, though sometimes for the worse. The greatest care is now necessary, as the future health and happiness of the female depends in a great measure upon her conduct at this period *.

If a girl about this time of life be confined to the house, kept constantly sitting, and neither allowed to romp about, nor employed in any active business, which gives exercise to the whole body, she becomes weak, relaxed, and puny; her blood not being duly prepared the looks pale and wan; her health, spirits, and vigou decline, and she sinks into a valetudinarian for life. Such is the fate of numbers of those unhappy females, who either from too much indulgence, or their own narrow circumstances, are, at this critical period, denied the be nefit of exercise and free air.

A lazy indolent disposition proves likewise very hurt ful to girls at this period. One seldom meets with com plaints from obstructions amongst the more active and in dustrious part of the sex; whereas the indolent and lazy are seldom free from them. These are in a manner eat en up by the *chlorosis*, or green-sickness, and other dis eases of this nature. We would therefore recommend is to all who wish to escape these calamities, to avoid indo lence and inactivity, as their greatest enemies, and to b as much abroad in the open air as possible.

Another thing which proves very hurtful to girls about this period of life, is unwholesome food. Fond of a manner of trash, they often indulge in it, till their whol humours are quite vitiated. Hence ensue indigestion want of appetite, and a numerous train of evils. If the fluids be not duly prepared, it is utterly impossible that

* It is the duty of mothers, and those who are intrusted with the education of girls, to instruct them early in the conduct and manage ment of themselves at this critical period of their lives. False modest inattention, and ignorance of what is beneficial or hurtful at this time are the sources of many diseases and misfortunes in life, which a few set sible lessons from an experienced matron might have prevented. No is care less necessary in the subsequent returns of this discharge. Takin improper food, violent affections of the mind, or catching cold at this p riod, is often sufficient to ruin the health, or to render the female ev after incapable of procreation.

tions should go properly on. Accordingly we find, such girls as lead an indolent life, and eat great quanof trash, are not only subject to obstructions of the *rs*, but likewise to glandular obstructions ; as the scro-1, or king's evil.

dull disposition is also very hurtful to girls at this pe-It is a rare thing to see a sprightly girl who does mjoy good health, while the grave, moping, melancreature, proves the very prey of vapours and hys. Youth is the season for mirth and cheerfulness. therefore be indulged. It is an absolute duty. To a stock of health in time of youth, is as necessary te of prudence, as to make provisions against the deof old age. While, therefore, wise nature prompts py youth to join in sprightly amusements let not were dictates of hoary age forbid the useful impulse, amp, with serious gloom, the season destined to mirth mocent festivity.

other thing very hurtful to females about this period of sstrait clothes. They are fond of a fine shape, and foolmagine that this can be acquired by lacing themttight. Hence, by squeezing the stomach and bowels, nurt the digestion, and occasion many hurtful mala-This error is not indeed so common as it has been; fashions change, it may come about again; wheree think it not improper to mention it. I know manales who, to this day, feel the direful effects of that ted custom which prevailed some years ago, of squeezery girl into as small a size in the middle as possible. In invention could not possibly have devised a pracpre destructive to health.

is a female has arrived at that period of life when uses usually begin to flow, and they do not appear, in the contrary, her health and spirits begin to dewe would advise, instead of shutting the poor girl the house, and dosing her with steel, asafœtida, her nauseous drugs, to place her in a situation bhe can enjoy the benefit of free air and agreeable by. There let her eat wholesome food, take suffikercise, and amuse herself in the most agreeable is and we have little reason to fear, but Nature,

thus assisted, will do her proper work. Indeed she seldo fails, unless where the fault is on our side.

This discharge in the beginning is seldom so instantan ous as to surprise females unawares. It is generally prece ed by symptoms which foretell its approach; as a sense heat, weight, and dull pain in the loins; distension and has ness of the breasts; head-ach; loss of appetite; lassitud paleness of the countenance; and sometimes a slight gree of fever. When these symptoms appear about age at which the menstrual flux usually begins, every this should be carefully avoided which may obstruct that cessary and salutary evacuation; and all means used promote it; as sitting frequently over the steams of wa water, drinking warm diluting liquors, &c.

After the menses have once begun to flow, the grea care should be taken to avoid every thing that may to to obstruct them. Females ought to be exceeding caution of what they eat or drink at the time they are out of or Every thing that is cold, or apt to sour on the stoma ought to be avoided; as fruit, butter-milk, and such 1 Fish, and all kinds of tood that are hard of digestion, also to be avoided. As it is impossible to mention even thing that may disagree with individuals at this time, would recommend it to every female to be very atten to what disagrees with herself, and carefully to avoid in Cold is extremely hurtful at this particular period. N

Cold is extremely futuritient at time performing the sex date their disorders from colds, caught while of the sex date their disorders from colds, caught while are out of order, than from all other causes. This or surely to put them upon their guard, and to make the very circumspect in their conduct at such times. A deserve circumspect in their conduct at such times. A deserve circumspect will not at the least hurt them at another the will at this period be sufficient entirely to ruin their her and constitution.

The greatest attention ought likewise to be paid to mind, which should be kept as easy and cheerful as sible. Every part of the animal economy is influence the passions, but none more so than this. Anger, grief, and other affections of the mind, often occasion structions of the menstrual flux, which prove absoluted curable.

rom whatever cause this flux is obstructed, except in state of pregnancy, proper means should be used to ree it. For this purpose we would recommend sufficient cise, in a dry, open, and rather cool air; wholesome and, if the body be weak and languid, generous ors; also cheerful company and all manner of amusetts. If these fail, resource must be had to medicine.

457

Then obstructions proceed from a weak relaxed state e solids, such medicines as tend to promote digestion, race the solids, and assist the body in preparing good d, ought to be used. The principal of these are iron the Peruvian bark, with other bitter and astringent teines. Filings of iron may be infused in wine or two or three ounces to an English quart, and after es stood for two or three weeks it may be filtered, about half a wine-glass of it taken twice a-day : or cared steel may be taken in the dose of half a drachm, and with a little honey or treacle, three or four times by. The bark and other bitters may either be taken ubstance or infusion, as is most agreeable to the ent.

Then obstructions proceed from a viscid state of the dd; or for women of a gross or full habit, evacuations, such medicines as attenuate the humours, are neces-The patient in this case ought to be bled, to bathe eet frequently in warm water, to take now and then bling purge, and to live upon a spare thin diet. Her to should be whey, water, or small beer, and she ought ke sufficient exercise. A tea-spoonful of the tincture ack hellebore may also be taken twice a-day in a cup

hen obstructions proceed from affections of the mind, ief, fear, anger, &c. every method should be taken to aand divert the patient. And that she may the more ly forget the cause of her affliction, she ought, if pos-, to be removed from the place where it happened. A ge of place, by presenting the mind with a variety of objects, has often a very happy influence in relieving om the deepest distress. A soothing, kind, and affable viour to females in this situation is also of the last imunce.

arm water.

An obstruction of the menses is often the effect of other maladies. When this is the case, instead of giving medicines to force that discharge, which might be dangerous, we ought by all means to endeavour to restore the patient's health and strength. When that is effected, the other will return of course.

But the menstrual flux may be too great, as well as too small. When this happens, the patient becomes weak, the colour pale, the appetite and digestion are bad, and œdematous swellings of the feet, dropsies, and consumptions often ensue. This frequently happens to women about the age of forty five or fifty, and is very difficult us cure. It may proceed from a sedentary life; a full diet, consisting chiefly of salted, high-seasoned, or acrid food the use of spirituous liquors; excessive fatigue; relaxation; a dissolved state of the blood; violent passions of the mind, &c.

The treatment of this disease must be varied according to its cause. When it is occasioned by any error in the patient's regimen, an opposite course to that which induced the disorder must be pursued, and such medicines takes as have a tendency to restrain the flux, and counteract the morbid affections of the system from whence it proceeds.

To restrain the flux, the patient should be kept quie and easy both in body and mind. If it be very violent she ought to lie in bed with her head low; to live upon cool and slender diet, as veal and chicken broths with bread and to drink decoctions of nettle-roots, or the greater com frey. If these be not sufficient to stop the flux, stronge astringents may be used, as Japan earth, allum, elixir o vitriol, the Peruvian bark, &c.*

The uterine flux may offend in quality as well as in quantity. What is usually called the fluor albus, or white

* Two drachms of allum and one of Japan earth may be pounded to gether, and divided into eight or nine doses, one of which may be take three times a-day.

Persons whose stomachs cannot bear the allum, may take two tabl spoonfuls of the tincture of roses three or four times a-day, to each do of which ten drops of laudanum may be added.

If these should fail, half a drachm of the Peruvian bark, in powder with ten drops of the elixir of vitriol, may be taken, in a glass of red win four times a day. very common disease, and proves extremely hurtful to cate women. This discharge, however, is not always ite, but sometimes pale, yellow, green, or of a blackish our; sometimes it is sharp and corrosive, sometimes land fœtid, &c. It is attended with a pale complexion, n in the back, loss of appetite, swelling of the feet, other signs of debility. It generally proceeds from laxed state of the body, arising from indolence, the essive use of tea, coffee, or other weak and watery

To remove this disease, the patient must take as much incise as she can bear without fatigue. Her food should solid and nourishing, but of easy digestion; and her ink rather generous, as red port or claret, mixed with rmont, Bristol, or lime-water. Tea and coffee are to avoided. I have often known strong broths have an meeding good effect, and sometimes a milk diet alone perform a cure. The patient ought not to lie too g a-bed. When medicine is necessary, we know none terable to the Peruvian bark, which in this case ought tays to be taken in substance. In warm weather, the H bath will be of considerable service.

That period of life at which the *menses* cease to flow, is invise very critical to the sex. The stoppage of any ttomary evacuation, however small, is sufficient to diser the whole frame, and often to destroy life itself. ince it comes to pass, that so many women either fall or chronic disorders, or die about this time. Such of in, however, as survive it, without contracting any conic disease, often become more healthy and hardy in they were before, and enjoy strength and vigour to a by great age.

f the menses cease all of a sudden, in women of a full it, they ought to abate somewhat of their usual quanof food, especially of the more nourishing kind, as h, eggs, &c. They ought likewise to take sufficient reise, and to keep the body open. This may be done taking, once or twice a-week, a little rhubarb, or an usion of hiera picra in wine or brandy.

t often happens that women of a gross habit, at this iod of life, have ulcerous sores break out about their

OF PREGNANCY.

ancles, or in other parts of the body. Such ulcers ought to be considered as critical, and should either be suffered to continue open, or have artificial drains substituted in their stead. Women who will have such sores dried up, are often soon after carried off by acute diseases, or fall into those of a chronic nature.

OF PREGNANCY.

THOUGH pregnancy is not a disease, yet that state is often attended with a variety of complaints which merit attention, and which sometimes require the assistance of medicine. Some women indeed are more healthy during their pregnancy than at any other time; but this is by no means the general case: most of them *breed in sorrow*, and are frequently indisposed during the whole time of pregnancy. Few fatal diseases, however, happen during that period; and hardly any, except abortion, that can be called dangerous. We shall therefore pay particular attention to it, as it proves generally fatal to the child, and sometimes so to the mother.

Pregnant women are often afflicted with the heart-burn. The method of treating this complaint has been already pointed out. They are likewise, in the more early period of pregnancy, often harassed with sickness and vomiting especially in the morning. The method of relieving these complaints has also been shewn. Both the head-ach and tooth-ach are very troublesome symptoms of pregnancy The former may generally be removed by keeping the body gently open, by the use of prunes, figs, roasted apples, and such like. When the pain is very violent, bleeding may be necessary. For the treatment of the latter, we mus refer to that article. Several other complaints incident to pregnant women might be mentioned, as a cough and difficulty of breathing, suppression and incontinency of urine &c. ; but as all of these have been taken notice of before, it is needless to repeat them.

Every pregnant woman is more or less in danger of abortion. This should be guarded against with the greatest care, as it not only weakens the constitution, but ren-

the woman liable to the same misfortune afterwards.* rtion may happen at any period of pregnancy, but it nost common in the second or third month. Somes, however, it happens in the fourth or fifth. If it pens within the first month, it is usually called a false reption; if after the seventh month, the child may be kept alive by proper care.

ne common causes of abortion are, the death of the I; weakness or relaxation of the mother; great evatons; violent exercise; raising great weights; reachcoo high; jumping, or stepping from an eminence; ting; coughing; convulsion fits; blows on the belfalls; fevers; disagreeable smells; excess of blood; llence; high living; or the contrary; violent passions fections of the mind, as fear, grief, &c.

he signs of approaching abortion are, pain in the ,, or about the bottom of the belly; a dull heavy in the inside of the thighs; a slight degree of coldor shivering; sickness, palpitation of the heart; the ssts become flat and soft; the belly falls; and there discharge of blood or watery humours from the lb.

D prevent abortion, we would advise women of a at or relaxed habit to use solid food, avoiding great intities of tea, and other weak and watery liquors; to early and go soon to bed; to shun damp houses; to frequent exercise in the open air, but to avoid face; and never to go abroad in damp foggy weather, if can shun it.

omen of a full habit ought to use a spare diet, avoidstrong liquors, and every thing that may tend to heat body, or increase the quantity of blood. Their should be of an opening nature, consisting principalif vegetable substances. Every woman with child

Every mother who procures an abortion does it at the hazard of her yet there are not a few who run this risk merely to prevent the le of bearing and bringing up children. It is surely a most unnatutime, and cannot, even in the most abandoned, be viewed without ; but in the decent matron, it is still more unpardonable. Those hes who daily advertise their assistance to women in this business, re, in my opinion, the most severe of all human punishments. ought to be kept cheerful and easy in her mind. Her appetites, even though depraved, ought to be indulged as far as prudence will permit.

When any signs of abortion appear, the woman ought to be laid in bed on a mattress, with her head low. She should be kept quiet, and her mind soothed and comforted. She ought not to be kept too hot, nor to take any thing of a heating nature. Her food should consist of broths, rice and milk, jellies, gruels made of oat-meal, and the like, all of which ought to be taken cold.

. If she be able to bear it, she should lose at least half a pound of blood from the arm. Her drink ought to be barley-water sharpened with juice of lemon; or she may take half a drachin of powdered nitre, in a cup of watergruel, every five or six hours. If the woman be seized with a violent looseness, she ought to drink the decoction of calcined hartshorn prepared. It she be affected with vomiting, let her take frequently two table-spoonfuls of the saline mixture. In general, opiates are of service; but they should always be given with caution.

Sanguine robust women, who are liable to miscarry at a certain time of pregnancy, ought always to be bled a few days before that period arrives. By this means, and observing the regimen above prescribed, they might often escape that misfortune.

Though we recommend due care for preventing abortion, we would not be understood as restraining pregnant women from their usual exercises. This would generally operate the quite contrary way. Want of exercise not only relaxes the body, but induces a plethora, or too great a fulness of the vessels, which are the two principal causes of abortion. There are, however, some women of so delicate a texture, that it is necessary for them to avoid almost every kind of exercise during the whole period of pregnancy.

OF CHILD-BIRTH.

MANY diseases proceed from the want of due care in child-bed; and the more hardy part of the sex are most apt to despise the necessary precautions in this state.-

is peculiarly the case with young wives. They think, in the labour-pains are ended, the danger is over; but with it may only then be said to be begun. Nature, it to herself, will seldom fail to expel the *fætus*; but er care and management are certainly necessary for recovery of the mother. No doubt mischief may be by too much as well as by too little care. Hence fess who have the greatest number of attendants in childgenerally recover worst. But this is not peculiar to ttate of child-bed. Excessive care always defeats its iintention, and is generally more dangerous than none *.

mring actual labour, nothing of a heating nature at to be given. The woman may now and then take lle panado, and her drink ought to be toast and wacor thin groat-gruel. Spirits, wines, cordial-waters, other things which are given with a view to strengthne mother, and promote the birth, for the most part only to increase the fever, inflame the womb, and il the labour. Besides, they endanger the woman wards, as they often occasion violent and mortal corrhages, or dispose her to eruptive and other fe-

then the labour proves tedious and difficult, to preinflammations, it will be proper to bleed. An emolcelyster ought likewise frequently to be administered : the patient should sit over the steams of warm water.

Though the management of women in child-bed has been practised employment since the earliest accounts of time; yet it is still in most ees on a very bad footing. Few women think of following this ement till they are reduced to the necessity of doing it for bread. Hence ee in a hundred of them have any education, or proper knowledge of usiness. It is true, that Nature, if left to herself, will generally exent for the skill and attention, and that they are often hurt by perstitious prejudices of ignorant and officious midwives. The miscone in this way is much greater than is generally imagined; most the might be prevented by allowing no women to practise midwifery the as are properly qualified. Were due attention paid to this, it not only be the means of saving many lives, but would prevent the ty of employing men in this indelicate and disagreeable branch of ne, which is, on many accounts, more proper for the other sex.

The passage ought to be gently rubbed with a little s pomatum or fresh butter, and cloths wrung out of war water applied over the belly. If nature seems to sin and the woman is greatly exhausted with fatigue, draught of generous wine, or some other cordial, m be given, but not otherwise. These directions are su cient in natural labours; and in all preternatural cases, skilful surgeon, or man-midwife, ought to be called soon as possible.

After delivery, the woman ought to be kept as qu and easy as possible*. Her food should be light and th as gruel, panado, &c. and her drink weak and dilutin To this rule, however, there are many exceptions. have known several women, whose spirits could not supported in child-bed without solid food and general liquors; to such, a glass of wine and a bit of chicken m be allowed.

Sometimes an excessive hæmorrhage or flooding h pens after delivery. In this case the patient should laid with her head low, kept cool, and be in all respetreated as for an excessive flux of the menses. If flooding proves violent, linen cloths, which have b wrung out of a mixture of equal parts of vinegar water, or red wine, should be applied to the belly, loins, and the thighs : these must be changed as t grow dry ; and may be discontinued as soon as the flo ing abates †.

If there be violent pains after delivery, the path ought to drink plentifully of warm diluting liquors, groat-gruel, or tea with a little saffron in it; and to t small broths, with carraway-seeds, or a bit of oran

* We cannot help taking notice of that ridiculous custom which prevails in some parts of the country, of collecting a number of we together upon such occasions. These, instead of being useful, serve to crowd the house, and obstruct the necessary attendants. Besides, hurt the patient with their noise; and often, by their untimely and pertinent advice, do much mischief.

In a violent flooding after delivery, I have seen very good en from the following mixture: Take of penny-royal water, simple cinnar water, and syrup of poppies, each two ounces, elixir of vitriol a dra Mix, and take two table-spoonfuls every two hours, or oftener, if n sary.

4.64

in them; an ounce of the oil of sweet almonds may vise be frequently taken in a cup of any of the above ors: and if the patient be restless, a spoonful of the p of poppies may now and then be mixed with a cup or drink. If she be hot or feverish, one of the followpowders may be taken in a cup of her usual drink five or six hours *.

n inflammation of the womb is a dangerous and not equent disease after delivery. It is known by pains te lower part of the belly, which are greatly increased touching; by the tension or tightness of the parts; weakness; change of countenance; a constant fever, a weak and hard pulse; a slight *delirium*, or raving; times incessant vomiting; a hiccup; a discharge of ish, stinking, sharp water from the womb; an inclinato go frequently to stool; a heat, and sometimes total ression of urine.

his must be treated like other inflammatory disorders, leeding and plentiful dilution. The drink may be gruel or barley-water; in a cup of which half a him of nitre may be dissolved, and taken three or four is a-day. Clysters of warm milk and water must be nently administered; and the belly should be fomenty cloths wrung out of warm water, or by applying llers filled with warm milk and water to it.

suppression of the *lochia*, or usual discharges after der, and the milk-fever, must be treated nearly in the manner as an inflammation of the womb. In all cases, the safest course is plentiful dilution, gentle nations, and fomentations of the parts affected. In nilk-fever, the breasts may be embrocated with a little in linseed-oil, or the leaves of red cabbage may be ted to them. The child should be often put to the tt, or it should be drawn by some other person. withing would tend more to prevent the milk-fever

ake of crabs claws prepared half an ounce, purified nitre two drachms, powdered half a drachm; rub them together in a mortar, and dide whole into eight or nine doses.

en the patient is low spirited, or troubled with hysterical complaints, ght to take frequently twelve or fifteen drops of the tincture of asain a cup of penny-royal tea.

3 N

than putting the child early to the breast. The custom of not allowing children to suck for the first two or three days is contrary to nature and common sense, and is very hurtful both to the mother and child.

Every mother who has milk in her breasts, ought either to suckle her own child, or to have her breasts frequently drawn, at least for the first month. This would prevent many of the diseases which prove fatal to women in child-bed.

When an inflammation happens in the breast, attended with redness, hardness, and other symptoms of suppuration, the safest application is a poultice of bread and milk, softened with oil or fresh butter. This may be renewed twice a-day, till the tumour be either discussed of brought to suppuration. The use of repellents, in this case, is very dangerous; they often occasion fevers, and sometimes cancers; whereas a suppuration is seldom attended with any danger, and has often the most salutary effects.

When the nipples are fretted or chapt, they may be anointed with a mixture of oil and bees-wax, or a little powdered gum-arabic may be sprinkled on them. I have seen Hungary water applied to the nipples have a very good effect. Should the complaint prove obstinate, cooling purge may be given, which generally remove it.

The miliary fever is a disease incident to women i child-bed; but as it has been treated of already, we sha take no further notice of it. The celebrated Hoffman observes, That this fever of child-bed women might general ly be prevented, if they, during their pregnancy, were regular in their diet, used moderate exercise, took now an then a gentle laxative of manna, rhubarb, or cream of tartar; not forgetting to bleed in the first months, and a void all sharp air. When the labour is coming on, it not to be hastened with forcing medicines, which inflam the blood and humours, or put them into unnatural commotions. Care should be taken, after the birth, that the natural excretions proceed regularly; and if the pulse b quick, a little nitrous powder, or some other cooling mdicines, should be administered.

The most fatal disorder consequent upon delivery is puerperal, or child-bed fever. It generally makes its ick upon the second or third day after delivery. Somees indeed it comes on sponer, and at other times, ingh rarely, it does not appear before the fifth or sixth

t begins, like most other fevers, with a cold or shiverfit, which is succeeded by restlessness, pain of the d, great sickness at stomach, and bilious vomiting. e pulse is generally quick, the tongue dry, and there a remarkable depression of spirits and loss of strength. great pain is usually felt in the back, hips, and region the womb; a sudden change in the quantity or qualiof the lochia also takes place; and the patient is freintly troubled with a tenesmus, or constant inclination go to stool. The urine, which is very high coloured, hischarged in small quantity, and generally with pain. es belly sometimes swells to a considerable bulk, and comes susceptible of pain from the slightest touch. then the fever has continued for a few days, the sympus of inflammation usually subside, and the disease acrres a more putrid form. At this period, if not sooner, lious or putrid looseness, of an obstinate and dangernature, comes on, and accompanies the disease through its future progress.

There is not any disease that requires to be treated with re skill and attention than this; consequently the best stance ought always to be obtained as soon as possible. women of plethoric constitutions, bleeding will geney be proper at the beginning; it ought, however, to be d with caution, and not to be repeated unless where signs of inflammation rise high; in which case it will be necessary to apply a blistering plaister to the region the womb.

During the rigour, or cold fit, proper means should be d to abate its violence, and shorten its duration. For purpose the patient may drink freely of warm diluting tors, and, if low, may take now and then a cup of wineey; warm applications to the extremities, as heated cks, bottles or bladders filled with warm water, and h like, may also be used with advantage.

3 N 2

Emollient clysters of milk and water, or of chicken water, ought to be frequently administered through the course of the disease. These prove beneficial by promoting a discharge from the intestines, and also by acting as a kindly fomentation to the womb and parts adjacent. Great care, however, is requisite in giving them, on account of the tenderness of the parts in the *pelvis* at this time.

To evacuate the offending bile from the stomach, a vone't is generally given. But as this is apt to increase the irritability of the stomach, already too great, it will be safer to omit it, and to give in its stead a gentle laxative, which will both tend to cool the body, and to procure a free discharge of the bile'*.

The medicine which I have always found to succeed best in this disease is the saline draught. This, if frequently repeated, will often put a stop to the vomiting, and at the same time lessen the violence of the fever. If it runs off by stool, or if the patient be restless, a few drops of laudanum, or some syrup of poppies, may occasionally be added.

If the stools should prove so frequent as to weaken and exhaust the patient, a starch clyster, with thirty or forty drops of laudanum in it, may be administered as occasion shall require; and the drink may be rice-water, in every English pint of which half an ounce of gum-arabic has been dissolved. Should these fail, recourse must be had to Columboroot, or some other strong astringent.

Though in general the food ought to be light, and the drink diluting, yet when the disease has been long protracted, and the patient is greatly spent by evacuations, it will be necessary to support her with nourishing diet and generous cordials.

It was observed that this fever, after continuing for some time, often acquires a putrid form. In this case the Peruvian bark must be given, either by itself, or joined with cordials, as circumstances may require. As the bark

* Midwives ought to be very cautious in administering vomits or purges to women in child bed. I have known a woman, who was recovering extremely well, thrown into the most imminent danger, by a strong purge which was given her by an officious midwife. substance will be apt to purge, it may be given in dection or infusion mixed with the tincture of roses, or mer gentle astringents; or, a scruple of the extract of rk with half an ounce of spirituous cinnamon-water, o ounces of common water, and ten drops of laudanum, y be made into a draught, and given every second, rd, or fourth hour, as shall be found necessary.

When the stomach will not bear any kind of nourishnt, the patient may be supported for some time by ssters of beef-tea, or chicken-water.

To avoid this fever, every woman in child-bed ought be kept perfectly easy; her food should be light and ple, and her bed-chamber cool, and properly ventilat-There is not any thing more hurtful to a woman in s situation than being kept too warm. She ought not have her body bound too tight, nor to rise too soon in bed, after delivery; catching cold is also to be iided; and a proper attention should be paid to clean-

To prevent the milk-fever, the breasts ought to be quently drawn; and if they are filled previous to the et of a fever, they should, upon its first appearance, llrawn, to prevent the milk from becoming acrid, and being absorbed in this state. Costiveness is likewise be avoided. This will be best effected by the use of il clysters and a laxative diet.

We shall conclude our observations on child-bed woby recommending it to them, above all things, to tare of cold. Poor women, whose circumstances oblige in to quit their bed too soon, often contract diseases in cold, of which they never recover. It is pity the poor not better taken care of in this situation.

ut the better sort of women run the greatest hazard i too much heat. They are generally kept in a sort agnio for the first eight or ten days, and then dressed to see company. The danger of this conduct must bvious to every one.

he superstitious custom of obliging women to keep house till they go to church, is likewise a very comcause of catching cold. All churches are damp, most of them cold; consequently they are the very

OF BARRENNESS.

worst places to which a woman can go to make her first visit, after having been confined in a warm room for month.

OF BARRENNESS.

BARRENNESS may be very properly reckoned amon the diseases of females, as few married women who hav not children enjoy a good state of health. It may proceed from various causes, as high living, grief, relaxation &c. but it is chiefly owing to an obstruction or irregularity of the menstrual flux.

It is very certain that high living vitiates the humour and prevents fecundity. We seldom find a barren we man among the labouring poor, while nothing is mor common among the rich and affluent. The inhabitan of every country are prolific in proportion to their pove ty; and it would be an easy matter to adduce many it stances of women, who, by being reduced to live entire upon a milk and vegetable diet, have conceived an brought forth children, though they never had any befor Would the rich use the same sort of food and exercise the better sort of peasants, they would seldom have cau to envy their poor vassals and dependants the blessing a numerous and healthy offspring, while they pine in so row for the want of even a single heir to their extensi domains.

Affluence begets indolence, which not only vitiates the humours, but induces a general relaxation of the solida state highly unfavourable to procreation. To remothis, we would recommend the following course: Firsufficient exercise in the open air; secondly, a diet consising chiefly of milk and vegetables*; thirdly, the use astringent medicines, as steel, allum, dragon's bloc

* Dr Cheyne avers, that want of children is oftener the fault of male than of the female, and strongly recommends a milk and vegeta diet to the former as well as the latter; adding, that his friend, Dr 1 ay whom he calls the Milk doctor of Croydon, had brought sundry opul families in his neighbourhood, who had continued some years atter m riage without progeny, to have several fine children, by keeping both rents, for a considerable time, to a milk and vegetable diet.

ir of vitriol, the Spaw or Tunbridge waters, Peruvian c, &c.; and lastly, above all, the cold bath.

arrenness is often the consequence of grief, sudden , anxiety, or any of the passions which tend to obect the menstrual flux. When barrenness is suspected roceed from affections of the mind, the person ought to kept as easy and cheerful as possible; all disagreeobjects are to be avoided, and every method taken to se and entertain the fancy.

CHAP. XLIX.

DISEASES OF CHILDREN.

ISERABLE indeed is the lot of man in the state of infancy! He comes into the world more helpless any other animal, and stands much longer in need of protection and care of his parents; but, alas! this care of always bestowed upon him; and when it is, he ofsuffers as much from improper management as he ld have done from neglect. Hence the officious care urents, nurses, and midwives, becomes one of the most ful sources of the disorders of infants *.

must be obvious to every attentive person, that the diseases of infants arise chiefly from their bowels. is this in the least to be wondered at, as they are in nner poisoned with indigestible drugs and improper as soon as they come into the world. Every thing the stomach cannot digest may be considered as a

Of the officious and ill-judged care of midwives, we shall adduce stance, viz. the common practice of torturing infants by squeezing breasts, to draw off the milk, as they call it. Though a small quani moisture is generally found in the breasts of infants, yet, as they rtainly not intended to give suck, this ought never to be drawn off. seen this cruel operation bring on hardness, inflammation, and supton of the breasts; but never knew any ill consequences from its bemitted. When the breasts are hard, the only application that we recommend is a poultice, or a little of the diachylon plaister, spread pon a bit of soft leather, about the size of half a crown, and applied each nipple. These may be suffered to continue till the hardness cars. poison; and, unless it can be thrown up, or voided by stool, it must occasion sickness, gripes, spasmodic affections of the bowels, or what the good women call inward fits, and at last convulsions and death.

As these symptoms evidently arise from somewhat that irritates the intestines, doubtless the proper method o cure must be to expel it as soon as possible. The mos safe and effectual method of doing this is by gentle vo mits. Five or six grains of the powder of ipecacuanh may be mixed in two table-spoonfuls of water, and sweet ened with a little sugar. A tea-spoonful of this may b given to the infant every quarter of an hour till it ope rates; or, what will more certainly answer the purpose, grain of emetic tartar may be dissolved in three ounces of water, sweetened with a little syrup, and given as above Those who are unwilling to use the emetic tartar, ma give six or seven drops of the antimonial wine, in a ter spoonful of water or thin gruel. Small doses of the ipe cacuanha wine will be found more gentle than any of th above, and ought to be preferred.

These medicines will not only cleanse the stomach, buy will generally likewise open the body. Should this, how ever, not happen, and if the child be costive, some gent purge will be necessary: for this purpose, some many and pulp of cassia may be dissolved in boiling wate and given in small quantities till it operates; or, wh will answer rather better, a few grains of magnesia almay be mixed in any kind of food that is given to the child, and continued till it has the desired effect. these medicines be properly administered, and the child belly and limbs frequently rubbed with a warm hand be fore the fire, they will seldom fail to relieve those affection of the stomach and bowels from which infants suffer much.

These general directions include most of what can done for relieving the internal disorders of infants. Th will likewise go a considerable way in alleviating the which appear externally, as the rush, gum, or fellon, & These, as was formerly observed, are principally owi to too hot a regimen, and consequently will be most fectually relieved by gentle evacuations. Indeed, evac

OF THE MECONIUM.

ions of one kind or other constitute a principal part of ce medicine of infants, and will seldom, if administered ith prudence, in any of their diseases, fail to give reif.

OF THE MECONIUM.

THE stomach and bowels of a new-born infant are fillwith a blackish-coloured matter, of the consistence of rup, commonly called the *meconium*. This is generally ssed soon after the birth, by the mere effort of Nature ; which case it is not necessary to give the infant any kind medicine. But if it should be retained, or not sufficientcarried off, a little manna or *magnesia alba* may be giv-, as mentioned above ; or, if these should not be at hand, common spoonful of whey, sweetened with a little honey, raw sugar, will answer the purpose.

The most proper medicine for expelling the meconium is ce mother's milk, which is always at first of a purgative nality. Were children allowed to suck as soon as they ew any inclination for the breast, they would seldom have acasion for medicines to discharge the meconium; but even here this is not allowed, they ought never to have daubs syrup, oils, and other indigestible stuff, crammed down teir throats.

OF THE APHTHÆ OR THRUSH.

THE aphthæ are little whitish ulcers affecting the whole side of the mouth, tongue, throat, and stomach of infants. metimes they reach through the whole intestinal canal; which case they are very dangerous, and often put an cd to the infant's life.

If the aphthæ are of a pale colour, pellucid, few in numir, soft, superficial, and fall easily off, they are not danrous; but if opaque, yellow, brown, black, thick, or ruhing together, they ought to be dreaded.

It is generally thought that the aphthæ owe their origin acid humours; we have reason however to believe, ey are more frequently owing to too hot a regimen th of the mother and child. It is a rare thing to find a child who is not dosed with wine, punch, cinnamonwaters, or some other hot and inflaming liquors, almost as soon as it is born. It is well known that these will occasion inflammatory disorders even in adults; is it any wonder then that they should heat and inflame the tender bodies of infants, and set, as it were, the whole constitution on a blaze ?

The most proper medicines for the aphthæ are vomits, such as have been already recommended, and gentle laxatives. Five grains of rhubarb and halt a drachm of magnessa alba may be rubbed together, and divided into six doses, one of which may be given to the infant every four or five hours till they operate. These powders may either be given in the child's food, or a little of the syrup of pale roses, and may be repeated as often as is found necessary to keep the body open. It is common in this case to administer calomel; but as that medicine sometimes occasions gripes, it ought always to be given to infants with caution.

Many things have been recommended for gargling the mouth and throat in this disease ; but it is not easy to apply these in very young infants ; we would therefore recommend it to the nurse to rub the child's mouth frequently with a little borax and honey ; or with the following mixture : Take fine honey an ounce, borax a drachm, burnt alum half a drachm, rose-water two drachms ; mix them together. A very proper application in this case, is a solution of ten or twelve grains of white vitriol in eight ounces of barley-water. These may be applied with the finger, or by means of a bit of soft rag tied to the end of a probe.

OF ACIDITIES.

THE food of children being for the most part of an acescent nature, it readily turns sour upon the stomach, especially if the body be any way disordered. Hence most diseases of children are accompanied with evident signs of acidity, as green stools, gripes, &c. These appearances have induced many to believe, that all the diseases of children were owing to an acid abounding in the sto-

OF ACIDITIES.

475

mach and bowels; but whoever considers the matter atentively, will find that these symptoms of acidity are ofener the effect than the cause of their diseases.

Nature evidently intended, that the food of children nould be acescent; and unless the body be disordered, or ne digestion hurt, from some other cause, we will vennre to say, that the acescent quality of their food is selom injurious to them. Acidity, however, is often a imptom of disorders in children, and, as it is sometimes a coublesome one, we shall point out the method of relievg it.

When green stools, gripes, purgings, sour smells, &c. ew that the bowels abound with an acid, the child should we a little small broth, with light white bread in it : and could have sufficient exercise in order to promote the distion. It has been customary in this case to give the arl julep, chalk, crabs' eyes, and other testaceous powders. mese, indeed, by their absorbent quality, may correct the idity; but they are attended with this inconvenience, at they are apt to lodge in the bowels, and occasion coseness, which may prove very hurtful to the infant. For s reason they should never be given unless mixed with regative medicines ; as rhubarb, manna, or such like. The best medicine which we know, in all cases of aciy, is that fine insipid powder called magnesia alba. It rrges, and at the same time corrects the acidity ; by which ans it not only removes the disease, but carries off its use. It may be given in any kind of food, or in a mixre, as recommended in the Appendix *.

When an infant is troubled with gripes, it ought not first to be dosed with brandy, spiceries, and other hot mgs, but should have its body opened with an emollient ester, or the medicine mentioned above; and at the me time a little brandy may be rubbed on its belly with rarm hand before the fire. I have seldom seen this fail case the gripes of infants. If it should happen, howr, not to succeed, a little brandy or other spirits may mixed with thrice the quantity of warm water, and a spoonful of it given frequently till the infant be easier,

See Appendix, Laxative absorbent Mixture.

GALLING AND EXCORIATION.

Sometimes a little peppermint-water will answer this purpose very well.

GALLING AND EXCORIATION.

THESE are very troublesome to children. They happen chiefly about the groin and wrinkles of the neck, under the arms, behind the ears, and in other parts that are moistened by the sweet or urine.

As these complaints are, in a great measure, owing to want of cleanliness, the most effectual means of preventing them are, to wash the parts frequently with cold water, to change the linen often, and, in a word, to keep the child in all respects thoroughly clean. When this is not sufficient, the excoriated parts may be sprinkled with absorbent or drying powders; as burnt hartshorn, tutty, chalk, crab's claws prepared, and the like. When the parts affected are very sore, and tend to a real ulceration, it will be proper to add a little sugar of lead to the powders ; or to anoint the place with the camphorated ointment. the parts be washed with spring water, in which a little white vitriol has been dissolved, it will dry and heal them very powerfully. One of the best applications for this purpose, is to dissolve some fuller's earth in a sufficient quantity of hot water ; and after it has stood till it is cold, to rub it gently upon the galled parts once or twice a-day.

STOPPAGE OF THE NOSE.

THE nostrils of infants are often plugged up with a gros mucus, which prevents their breathing freely, and likewis renders it difficult for them to suck or swallow.

Some in this case order, after a suitable purge, two or three grains of white vitriol dissolved in half an ounce or marjorum-water, and filtered, to be applied now and the to the nostrils with a linen rag. Wedelius says, If two grains of white vitriol, and the same quantity of *elaterium* be dissolved in half an ounce of marjorum-water, and ap plied to the nose, as above directed, that it brings away the *mucus* without sneezing.

In obstinate cases these medicines may be tried; bu

STOPPAGES OF THE NOSE.

ave never found any thing necessary, besides rubbing nose at bed-time with a little sweet oil, or fresh butter. is resolves the filth, and renders the breathing more e.*

OF VOMITING.

FROM the delicate state of children, and the great senility of their organs, a vomiting or loosenes may be inceed by any thing that irritates the nerves of the stomach intestines. Hence these disorders are much more comn in childhood than in the more advanced periods of . They are seldom however dangerous, and ought wer to be considered as diseases, unless when they are llent, or continue so long as to exhaust the strength of patient.

Womiting may be excited by an over-quantity of food; food that is of such a nature as to irritate the nerves of stomach too much; or by the sensibility of the nerves ing so much increased as to render them unable to bear stimulus of even the mildest element.

When vomiting is occasioned by too much food, it ght to be promoted, as the cure will depend upon ansing the stomach. This may be done either by a " grains of ipecacuanha, or a weak solution of emetic ttar, as mentioned before. When it is owing to food an acrid or irritating quality, the diet ought to be chanil, and aliment of a milder nature substituted in its and.

When vomiting proceeds from an increased degree of ssibility, or too great an irritability of the nerves of the mach, such medicines as have a tendency to brace and engthen that organ, and to abate its sensibility, must used. The first of these intentions may be answered by light infusion of the Peruvian bark, with the addition of ttle rhubarb and orange-peel; and the second by the ne draughts, to which a few drops of liquid laudanum y be occasionally added.

Some nurses remove this complaint by sucking the child's nose. This y no means a cleanly operation; but when nurses have the resolution to it, I am far from discouraging the practice.

OF A LOOSENESS.

In obstinate vomitings the operation of internal medicines may be assisted by aromatic fomentations made with wine applied warm to the pit of the stomach; or the use of the stomach-plaister, with the addition of a little *Theriaca*.

OF A LOOSENESS.

A LOOSENESS may generally be reckoned salutary when the stools are sour, slimy, green, or curdled. It is not the discharge, but the production of such stools, which ought to be remedied. Even where the purging is this and watery, it ought not to be checked too suddenly as it often proves critical, especially when the child has caught cold, or an eruption on the skin has disap peared. Sometimes an evacuation of this kind succeed a humid state of the atmosphere, in which case it ma also prove of advantage, by carrying off a quantity of watery humours, which would otherwise tend to relax th habit.

As the principal intention of the cure of a looseness is t evacuate the offending matter, it is customary to give th patient a gentle vomit of ipecacuanha, and afterward to exhibit small and frequent doses of rhubarb; interposing absorbent medicines, to mitigate the acrimony of the hu mours. The best purge, however, in this case, is *magnesic alba*. It is at the same time absorbent and laxative, and operates without exciting gripes.

The antimonial wine, which acts both as an emetic an purge, is also an excellent medicine in this case. By bein diluted with water, it may be proportioned to the weakes constitution; and not being disagreeable to the palate it may be repeated as often as occasion requires. Even on dose will frequently mitigate the disease, and pave the wa for the use of absorbents. If, however, the patient' strength will permit, the medicine ought to be repeate every six or eight hours, till the stools begin to assume more natural appearance; afterwards a longer space may be allowed to intervene between the doses. When it is necessary to repeat the medicine frequently, the dose ough always to be a little increased, as its efficacy is generally diminished by use.

turin Werburg

OF ERUPTIONS.

me upon the first appearance of a looseness, fly ediately to the use of absorbent medicines and astrind. If these be administered before the offending hues are discharged, though the disease may appear to nitigated for a little time, it soon afterwards breaks with greater violence, and often proves fatal. After er evacuations, however, these medicines may be adttered with considerable advantage.

build any gripings or restlessness remain after the uch and bowels have been cleansed, a tea-spoonful of rup of poppies may be given in a little simple cinnawater, three or four times a-day, till these symptoms ceased.

OF ERUPTIONS.

ILDREN, while on the breast, are seldom free from cons of one kind or other. These, however, are not dangerous, and ought never to be dried up but with eatest caution. They tend to free the bodies of infrom hurtful humours, which, if retained, might protatal disorders.

eruptions of children are chiefly owing to improod and neglect of cleanliness. If a child be stuffed hours with food that its stomach is not able to diuch food, not being properly assimilated, instead rishing the body, fills it with gross humours. These ither break out in form of eruptions upon the skin, ain in the body, and occasion fevers and other indisorders. That neglect of cleanliness is a very geause of eruptive disorders, must be obvious to every The children of the poor, and of all who despise ness, are almost constantly found to swarm with , and are generally covered with the scab, itch, and truptions.

en eruptions are the effect of improper food, or want aliness, a proper attention to these alone will generalufficient to remove them. If this should not be the some drying medicine will be necessary. When re applied, the body ought at the same time to be pen, and cold is carefully to be avoided. We

OF ERUPTIONS.

know no medicine that is more safe for drying up cutane. ous eruptions than sulphur, provided it be prudently used. A little of the flour of sulphur may be mixed with fresh butter, oil, or hog's lard, and the parts affected frequently touched with it.

The most obstinate of all the eruptions incident t children are, the tinea capitis, or scabbed head, and children blains. The scabbed head is often exceeding difficult cure, and sometimes indeed the cure proves worse that the disease. I have frequently known children seize with internal disorders, of which they died soon after their scabbed heads had been healed by the application drying medicines*. The cure ought always first to be a tempted by keeping the head very clean, cutting off the hair, combing and brushing away the scabs, &c. If the is not sufficient, let the head be shaved once a wee washed daily with soap suds, and gently anointed with liniment made of train oil eight ounces, red precipital in fine powder, one drachm. And if there be pro flesh, it should be touched with a bit of blue vitn sprinkled with a little burnt allum. While these thin are doing, the patient must be confined to a regu light diet, the body should be kept gently open ; a cold, as far as possible, ought to be avoided. To p vent any bad consequences from stopping this dischar, it will be proper, especially in children of a gross hat to make an issue in the neck or arm, which may be k

* I some time ago saw a very striking instance of, the danger of stituting drying medicines in the place of cleanliness and wholesome is in the Foundling Hospital at Ackworth, where the children were vously afflicted with scabbed heads, and other cutaneous disorders. I inquiry it was found, that very little attention was paid either to the priety or soundness of their provisions, and that cleanliness was totally glected; accordingly it was advised that they should have more we some food, and be kept thoroughly clean. This advice, however, was followed. It was too troublesome to the servants, superintendants, & The business was to be done by medicine; which was accordingly atter ed, but had nearly proved fatal to the whole house. Fevers and other ternal disorders immediately appeared, and at length a putrid dysen which proved so infectious, that it carried off a great many of the chil and spread over a considerable part of the neighbouring country.

n till the patient becomes more strong, and the constion be somewhat mended.

hilblains commonly attack children in cold weather. y are generally occasioned by the feet or hands being t long wet or cold, and afterwards suddenly heated. en children are cold, instead of taking exercise to warm nselves gradually, they run to the fire. This occasions dden rarefaction of the humours, and an infarction of vessels; which being often repeated, the vessels are at over-distended, and forced to give way.

to prevent it, violent cold and sudden heat must be ally avoided. When the parts begin to look red and II, the patient ought to be purged, and to have the afed parts frequently rubbed with mustard and brandy, comething of a warming nature. They ought likewise e covered with flannel, and kept warm and dry. Some by warm ashes between cloths to the swelled parts, ch frequently help to reduce them. When there is a , it must be dressed with Turner's cerate, the ointment atty, the plaster of cerus, or some other drying ointt. These sores are indeed troublesome, but seldom gerous. They generally heal as soon as the warm weasets in.

OF THE CROUP.

HILDREN are often seized very suddenly with this ase, which, if not quickly relieved, proves mortal. known by various names in different parts of Britain. the east coast of Scotland it is called the *croup*. On west they call it the *chock*, or *stuffing*. In some parts England, where I have observed it, the good women it *the rising of the lights*. It seems to be a species of *ma*, attended with very acute and violent catarrhal ptoms.

his disease generally prevails in cold and wet seasons. most common upon the sea-coast, and in low marshy ntries. Children of a gross and lax habit are most le to it. I have sometimes known it hereditary. It erally attacks children in the night, after having been th exposed to damp cold easterly winds through the

3 P

day. Damp houses, wet feet, thin shoes, wet clothes, or any thing that obstructs the perspiration, may occasion the croup.

It is attended with a frequent pulse, quick and laborious breathing, which is performed with a peculiar kind of croaking noise, that may be heard at a considerable distance. The voice is sharp and shrill, and the face is generally much flushed, though sometimes it is of a livid colour.

When a child is seized with the above symptoms, his feet should immediately be put into warm water. He ought likewise to be bled *, and to have a laxative clyster administered as soon as possible. He should be made to breathe over the steams of warm water and vinegar; or an emollient decoction, and emollient cataplasms or fomentations may be applied round his neck. If the symptoms do not abate, a blistering plaster must be applied round the neck or between the shoulders, and the child may take frequently a table-spoonful of the following julep : Take pennyroyal water three ounces, syrup of althea and balsamic syrup, each one ounce, mix them together.

Asafœtida is found to have a good effect in this case.— It may be both given in form of clyster, and taken by the mouth. Two drachms of asafœtida may be dissolved in one ounce of Mindererus' spirit, and three ounces of pennyroyal water. A table-spoonful of this mixture may be given every hour, or oftener, if the patient's stomach be able to bear it. If the child cannot be brought to take this medicine, two drachms of the asafœtida may be dissolved in a common clyster, and administered every six of eight hours, till the violence of the disease abates †.

* In this disease bleeding is not always proper; but in very full habit it must certainly be of use.

+ I was lately favoured with a letter from Dr William Turnbull in London, a physician of great experience, and who, from his forme situation on the north-east coast of England, had many opportunitie of observing the symptoms and progress of this dangerous disease. am sorry the letter came too late to be inserted at length; but as the Doctor's sentiments differ very little from my own, this misfortune is the lets to be regretted. The Doctor indeed observes, that he never found blistering of any service; but recommends cataplasms of garlin camphor, and Venice treacle, to be applied both to the throat and sole

OF TEETHING.

'o prevent a return of the disorder, all those things ch occasion it must be carefully avoided; as wet feet, it, damp, easterly winds, &c. Children who have frequent returns of this disease, or whose constitutions in to dispose them to it, ought to have their diet proby regulated; all food that is viscid or hard of digesin, and all crude, raw, trashy fruits, are to be avoided. y ought likewise to have a drain constantly kept open ome part of their body, by means of a seton or issue. we sometimes known a Burgundy-pitch plaster, worn inually between the shoulders for several years, have ry happy effect in preventing the return of this dreadflisorder.

OF TEETHING.

IR ARBUTHNOT observes, that above a tenth part of indie in teething, by symptoms proceeding from the irrim of the tender nervous parts of the jaws, occasioning mmations, fevers, convulsions, gangrenes, &c. These otoms are in a great measure owing to the great deliand exquisite sensibility of the nervous system at this tof life, which is too often increased by an effeminate ation. Hence it comes to pass, that children who are ately brought up, always suffer most in teething, and fall by convulsive disorders.

bout the sixth or seventh month the teeth generally in to make their appearance; first, the *incisores*, or fore-; next, the *canini*, or dog-teeth; and lastly, the *mo*or grinders. About the seventh year, there comes a set; and about the twentieth, the two inner grinders, Il *dentes sapientiæ*, the teeth of wisdom.

ildren, about the time of cutting their teeth, slaver

feet. He likewise recommends boluses of camphor, castor, valerian ilt of hartshorn, and musk, adapted to the age, strength, &cc. of the ; after which he advises two spoonfuls of the following decoction ; e of garlic and distilled vinegar each an ounce, hysop-water eight ; beat up the ingredients together, gradually mixing the water, and three ounces of honey. Let the whole be simmered over a gentle d afterwards strained for use. much, and have generally a looseness. When the teething is difficult, especially when the dog-teeth begin to make their way through the gums, the child has startings in his sleep, tumours of the gums, watchings, gripes, green stools, the thrush, fever, difficult breathing, and conyulsions.

Difficult teething requires nearly the same treatment as an inflammatory disease. If the body be bound, it must be opened either by emollient clysters or gentle purgatives; as manna, magnesia alba, rhubarb, senna, or the like. The food should be light, and in small quantity; the drink plentiful, but weak and diluting, as infusions of balm, or of the lime-tree flowers; to which about a third or fourth part of milk may be added.

If the fever be high, bleeding will be necessary; but this in very young children ought always to be sparingly performed. It is an evacuation which they bear the wors of any. Purging, vomiting, or sweating, agree much better with them, and are generally more beneficial.— Harris, however, observes, that, when an inflammation appears, the physician will labour in vain, if the cure be not begun with applying a leech under each ear. If the child be seized with convulsion fits, a blistering-plaste may be applied between the shoulders, or one behind each ear.

Sydenham says, that in fevers occasioned by teething he never found any remedy so effectual as two, three, o four drops of spirits of hartshorn in a spoonful of simpl water, or other convenient vehicle, given every four hour. The number of doses may be four, five, or six. I hav often prescribed this medicine with success, but alway found a larger dose necessary. It may be given from five drops to fifteen or twenty, according to the age of th child, and, when costiveness does not forbid it, three four drops of laudanum may be added to each dose.

In Scotland, it is very common, when children are ca ting their teeth, to put a small Burgundy pitch plaster b tween their shoulders. This generally eases the ticklin cough which attends teething, and is by no means an us less application. When the teeth are cut with difficult it ought to be kept on during the whole time of teethin

may be enlarged as occasion requires, and ought to be wed at least once a fortnight.

everal things have been recommended for rubbing the ns, as oils, mucilages, &c.; but from these much is to be expected. If any thing of this kind is to be uswe would recommend a little fine honey, which may rubbed on with the finger three or four times a-day.— Idren are generally at this time disposed to chew whatthey get into their hands. For this reason they ought er to be without somewhat that will yield a little to the ssure of their gums, as a crust of bread, a wax-candle, it of liquorice-root, or such like.

With regard to the cutting the gums, we have seldom wn it of any great benefit. In obstinate cases, howit ought to be tried. It may be performed by the rer-nail, the edge of a six-penny piece that is worn thin, iny sharp body which can be with safety introduced inlhe mouth; but the lancet, in a skilful hand, is certainthe most proper.

In order to render the teething less difficult, parents the to take care that their children's food be light and polesome, and that their nerves be braced by sufficient reise without doors, the use of the cold bath, &c. Were se things duly regarded, they would have a much betteffect than *teething necklaces*, or other nonsensical amuworn for that purpose.

OF THE RICKETS.

His disease generally attacks children between the age nine months and two years. It appeared first in Engd about the time when manufactures began to flourish, still prevails most in towns where the inhabitants folsedentary employments, by which means they neglect her to take proper exercise themselves, or to give it to ir children.

CAUSES.—One cause of the rickets is diseased pats. Mothers of a weak relaxed habit, who neglect exise, and live upon weak watery diet, can neither be bected to bring forth strong and healthy children, or to be able to nurse them, after they are brought forth.— Accordingly we find, that the children of such women generally die of the rickets, the scrophula, consumptions, or such like diseases. Children begotten by men in the decline of life, who are subject to the gout, the gravel, or other chronic diseases, or who have been often affected with the venereal disease in their youth, are likewise very liable to the rickets.

Any disorder that weakens the constitution, or relaxes the habit of children, as the small-pox, measles, teething, the hooping-cough, &c. disposes them to this disease. It may likewise be occasioned by improper diet, as food that is either too weak and watery, or so viscid that the stomach cannot digest it.

Bad nursing is the chief cause of this disease. When the nurse is either diseased, or has not enough of milk to nourish the child, it cannot thrive. But children suffer oftener by want of care in nurses than want of food. Allowing an infant to lie or sit too much, or not keeping it thoroughly clean in its clothes, has the most pernicious effects.

The want of free air is likewise very hurtful to children in this respect. When a nurse lives in a close small house, where the air is damp and confined, and is too indolent to carry her child abroad into the open air, it will hardly escape this disease. A healthy child should always be in motion, unless when asleep; if it be suffered to lie, or sit, instead of being tossed and dandled about it will not thrive.

SYMPTOMS.—At the beginning of this disease the child's flesh grows soft and flabby; its strength is diminished; it loses its wonted cheerfulness, looks more grave and composed than is natural for its age, and does not chuse to be moved. The head and belly become too large in proportion to the other parts; the face appears full, and the complexion florid. Afterwards the bones begin to be affected, especially in the more soft and spungy parts. Hence the wrists and ancles become thicker than usual; the spine or back-bone puts on an unnatural shape; the breast is likewise often deformed; and the bones of the arms and legs grow crooked. All these symptoms vary according to the vi-

OF THE RICKETS.

ence of the disease. The pulse is generally quick, but ble; the appetite and digestion for the most part bad; teeth come slowly and with difficulty, and they often and fall out afterwards. Ricketty children generally ve great acuteness of mind, and an understanding above ir years. Whether this is owing to their being more in company of adults than other children, or to the prenatural enlargement of the brain, is not material.

REGIMEN.—As this disease is always attended with dent signs of weakness and relaxation, our chief aim the cure must be to brace and strengthen the solids, If to promote digestion and the due preparation of the ids. These important ends will be best answered by colesome nourishing diet, suited to the age and strength the patient, open dry air, and sufficient exercise. If the ld has a bad nurse, who either neglects her duty, or es not understand it, she should be changed. If the son be cold, the child ought to be kept warm; and een the weather is hot, it ought to be kept cool; as cating is apt to weaken it, and too great a degree of cold the same effect. The limbs should be rubbed frequentwith a warm hand, and the child kept as cheerful as ssible.

The diet ought to be dry and nourishing, as good bread, ssted flesh, &c. Biscuit is generally reckoned the best had; and pigeons, pullets, veal, rabbits, or mutton roasted minced, are the most proper flesh. If the child be too ang for flesh meats, he may have rice, millet, or pearlley boiled with raisins, to which may be added a little the and spice. His drink may be good claret, mixed h an equal quantity of water. Those who cannot afi claret, may give the child now and then a wine-glass mild ale, or good porter.

MEDICINE. — Medicines are here of little avail. The case may often be cured by the nurse, but seldom by physician. In children of a gross habit, gentle vos and repeated purges of rhubarb may sometimes be of , but they will seldom carry off the disease; that must end chiefly upon such things as brace and strengthen system : for which purpose, besides the regimen ntioned above, we would recommend the cold bath, especially in the warm season. It must however be used with prudence, as more ricketty children cannot bear it. The best time for using the cold bath is in the morning, and the child should be well rubbed with a dry cloth immediately after he comes out of it. If the child should be weakened by the cold bath, it must be discontinued.

Sometimes issues have been found beneficial in this disease. They are peculiarly necessary for children who a bound with gross humours. An infusion of the Peruvia bark in wine or ale would be of service, were it possible to bring children to take it. We might here mention many other medicines which have been recommended for the rickets; but as there is far more danger in trusting to thes than in neglecting them altogether, we chuse rather to pas them over, and to recommend a proper regimen as the thin chiefly to be depended on.

OF CONVULSIONS.

THOUGH more children are said to die of convulsions that of any other disease, yet they are for the most part only symptom of some other malady. Whatever greatly irritat or stimulates the nerves, may occasion convulsions. Hene infants whose nerves are easily affected, are often throw into convulsions by any thing that irritates the alimentation canal; likewise by teething; strait clothes; the approaof the small-pox, measles, or other eruptive diseases.

When convulsions proceed from an irritation of the st mach or bowels, whatever clears them of their acrid contents, or renders these mild and inoffensive, will general perform a cure : wherefore, if the child be costive, the beway will be to begin with a clyster, and afterwards to gu a gentle vomit, which may be repeated occasionally, a the body in the mean time kept open by gentle doses magnesia alba, or small quantities of rhubarb mixed we the powder of crab's claws.

Convulsions which precede the eruption of the sma pox or measles generally go off upon these making th appearance. The principal danger in this case arises fro the fears and apprehensions of those who have the care

OF CONVULSIONS.

patient. Convulsions are very alarming, and someng must be done to appease the affrighted parents, ses, &c. Hence the unhappy infant often undergoes eding, blistering, and several other operations, to the at danger of its life, when a little time, bathing the in warm water, and throwing in a mild clyster, and have set all to rights.

When convulsion fits arise from the cutting of teeth, ides gentle evacuations, we would recommend blister-, and the use of antispasmodic medicines, as the tince of soot, asafœtida, or castor. A few drops of any of se may be mixed in a cup of white-wine whey, and en occasionally.

When convulsions proceed from any external cause, the pressure occasioned by strait clothes or bandages, these ought immediately to be removed; though in case taking away the cause will not always remove effect, yet it ought to be done. It is not likely that patient will recover, as long as the cause which first re rise to the disorder continues to act.

When a child is seized with convulsions without having complaint in the bowels, or symptoms of teething ; any rash or other discharge which has been suddenly ed up; we have reason to conclude that it is a primary ease, and proceeds immediately from the brain. Cases this kind, however, happen but seldom, which is very unate, as little can be done to relieve the unhappy ment. When a disease proceeds from an original fault he formation or structure of the brain itself, we cannot oect that it should yield to medicine. But as this is always the cause, even of convulsions which proceed mediately from the brain, some attempts should be le to remove them. The chief intention to be pursued this purpose, is to make some derivation from the head, blistering purging, and the like. Should these fail, des or setons may be put in the neck, or between the ulders.

OF WATER IN THE HEAD.

THOUGH water in the head, or a dropsy of the brain may affect adults as well as children, yet, as the latter an more peculiarly liable to it, we thought it would be mos proper to place it among the diseases of infants.

CAUSES.—A dropsy of the brain may proceed from injuries done to the brain itself by falls, blows, or the like it may likewise proceed from an original laxity or weak ness of the brain; from scirrhous tumours or excrescence within the skull; a thin watery state of the blood; a di minished secretion of urine; and, lastly, from tediou and lingering diseases, which waste and consume the pa tient.

SYMPTOMS.—This disease has at first the appearanc of a slow fever; the patient complains of a pain i the crown of his head, or over his eyes; he shuns th light; is sick, and sometimes vomits; his pulse is in regular and generally low: though he seems heavy an dull, yet he does not sleep: he is sometimes deliriou and frequently sees objects double; towards the end this commonly fatal disease, the pulse becomes more fre quent, the pupils are generally dilated, the cheeks flusl ed, the patient becomes comatore, and convulsions en sue.

MEDICINE.—No medicine has hitherto been four sufficient to carry off a dropsy of the brain. It is laudibl however, to make some attempts, as time or change ma bring many things to light, of which at present we hav no idea. The medicines generally used are, purges of rhu barb or jalap with calomel, and blistering plaisters applic to the neck or back part of the head. To which we won beg leave to add diuretics, or medicines which promo the secretion of urine, such as are recommended in the common dropsy. A discharge from the nose ought like wise to be promoted by causing the patient to snuff-the powder of asarum, white hellebore, or the like.

Some practitioners have of late pretended to cure the disease by the use of mercury. I have not been so have py as to see any instances of a cure being performed in

OF SURGERY.

firmed dropsy of the brain ; but in so desperate a may every thing deserves a trial *.

CHAP. I.

OF SURGERY.

"O describe all the operations of surgery, and to point

out the different diseases in which these operations necessary, would extend this article far beyond the its allotted to it : we must therefore confine our obsercons to such cases as most generally occur, and in which oper assistance is either not asked, or not always to be mined.

Though an acquaintance with the structure of the hun body is indispensibly necessary to qualify a man for an expert surgeon ; yet many things might be done ave the lives of their fellow men in emergencies by se who are no adepts in anatomy. It is amazing with it facility the peasants daily perform operations upon the animals, which are not of a less difficult nature in many of those performed on the human species ; yet " seldom fail of success.

indeed every man is in some measure a surgeon, whehe will or not. He feels an inclination to assist his pw-men in distress, and accidents happen every hour, och give occasion to exercise this feeling. The feelings the heart, however, when not directed by the judgeit, are apt to mislead. Thus one, by a rash attempt ave his friend, may sometimes destroy him; while aner, for fear of doing amiss, stands still, and sees his om-friend expire, without so much as attempting to

One reason why this disease is seldom or never cured, may be, that seldom known till too far advanced to admit of remedy. Did parents h the first symptoms, and call a physician in due time, I am inclined ink that something might be done. But these symptoms are not yet iently known, and are often mistaken even by physicians themselves. his I lately saw a striking instance in a patient attended by an emipractitioner of this city, who had all along mistaken the disease for ing.

3Q 2

OF BLEEDING.

relieve him, even when the means are in his power. As every good man would wish to steer a course different from either of these, it will no doubt be agreeable to him to know what ought to be done upon such emergencies.

OF BLEEDING.

No operation of surgery is so frequently necessary as bleeding; it ought therefore to be very generally understood. But though practised by midwives, gardeners, blacksmiths, &c. we have reason to believe that very few know when it is proper. Even physicians themselves have been so much the dupes of theory in this article, as to render it the subject of ridicule. It is, however, an operation of great importance, and must, when seasonably and properly performed, be of singular service to those in distress.

Bleeding is proper at the beginning of all inflammatory fevers, as pleurisies, peripneumonies, &c. It is likewise proper in all topical inflammations, as those of the intestines, womb, bladder, stomach, kidnies, throat, eyes, &c as also in the asthma, sciatic pains, coughs, head-achs rhumatisms, the apoplexy, epilepsy, and bloody flux After falls, blows, bruises, or any violent hurt received either externally or internally, bleeding is necessary. I is likewise necessary for persons who have had the misfortune to be strangled, drowned, suffocated with fou air, the fumes of metal, or the like. In a word, wheneve the vital motions have been suddenly stopt from any cause whatever, except in swoonings occasioned by mere weak ness or hysteric affections, it is proper to open a vein But in all disorders proceeding from a relaxation of the solids, and an impoverished state of the blood, as dropsies cacochymies, &c. bleeding is improper.

Bleeding for topical inflammations ought always to be performed as near the part affected as possible. When this can be done with a lancet, it is to be preferred to any other method; but where a vein cannot be found, recourse must be had to leeches or cupping.

The quantity of blood to be let must always be regulated by the strength, age, constitution, manner of life, and

her circumstances relating to the patient. It would be iculous to suppose that a child could bear to lose as ach blood as a grown person, or that a delicate lady ould be bled to the same extent as a robust man.

From whatever part of the body blood is to be let, a ndage must be applied between that part and the heart. it is often necessary, in order to raise the vein, to make bandage pretty tight, it will be proper in such cases, soon as the blood begins to flow, to slacken it a little. bandage ought to be applied at least an inch, or an th and half from the place where the wound is intended be made.

Persons not skilled in anatomy ought never to bleed in rein that lies over an artery or a tendon, if they can aid it. The former may easily be known from its pulion or beating ; and the latter from its feeling hard or ht, like a wheep-cord under the finger.

It was formerly a rule, even among those who had the aracter of being regular practitioners, to bleed their pants, in certain diseases, till they fainted. Surely a more iculous rule could not be proposed. One person will nt at the very sight of a lancet, while another will lose nost the whole blood of his body before he faints. 'ooning depends more upon the state of the mind than the body ; besides, it may often be occasioned or prented by the manner in which the operation is perform-

Children are generally bled with leeches. This, though netimes necessary, is a very troublesome and uncertain actice. It is impossible to know what quantity of bod is taken away by leeches: besides, the bleeding is cen very difficult to stop, and the wounds are not easily aled. Would those who practise bleeding take a little ore pains, and accustom themselves to bleed children, ey would not find it such a difficult operation as they lagine.

Certain hurtful prejudices with regard to bleeding still evail among the country people. They talk, for inance, of head veins, heart-veins, breast-veins, &c. and lieve that bleeding in these will certainly cure all diseasof the parts from whence they are supposed to come,

OF BLEEDING.

without considering that all the blood-vessels arise from the heart, and return to it again; for which reason, unless in topical inflammations, it signifies very little from what part of the body blood is taken. But this, though a foolish prejudice, is not near so hurtful as the vulgar notion that the first bleeding will perform wonders. This belief makes them often postpone the operation when necessary, in order to reserve it for some more important occasion, and, when they think themselves in extreme danger, they fly to it for relief, whether it be proper or not. Bleeding at certain stated periods or seasons has likewise bad effects.

It is a common notion that bleeding in the feet draws the humours downwards, and consequently cures diseases of the head and other superior parts; but we have already observed, that, in all topical affections, the blood ought to be drawn as near the part as possible. When it is necessary, however, to bleed in the foot or hand, as the veins are small, and the bleeding is apt to stop too soon, the part ought to be immersed in warm water, and kept there till a sufficient quantity of blood be let.

We shall not spend time in describing the manner of performing this operation : that will be better learned by example than precept. Twenty pages of description would not convey so just an idea of the operation as seeing it once performed by an expert hand. Neither is it necessary to point out the different parts of the body from whence blood may be taken, as the arm, foot, forehead, temples, neck, &c. These will readily occur to every intelligent person, and the foregoing observations will be sufficient for determining which of them is most proper upon any particular occasion. In all cases where the intention is merely to lessen the general mass of blood, the arm is the most commodious part of the body in which the operation can be performed.

OF INFLAMMATIONS AND ABSCESSES.

FROM whatever cause an inflammation proceeds, it must terminate either by dispersion, suppuration, or gangrene. Though it is impossible to foretell with certainty

OF INFLAMMATIONS AND ABSCESSES.

which of these ways any particular inflammation will minate, yet a probable conjecture may be formed with rard to the event, from a knowledge of the patient's e and constitution. Inflammations happening in a slight gree upon colds, and without any previous indisposition, I most probably be dispersed : those which follow close on a fever, or happen to persons of a gross habit of lly, will generally suppurate; and those which attack by old people, or persons of a dropsical habit, will have arong tendency to gangrene.

If the inflammation be slight, and the constitution and, the dispersion ought always to be attempted. Is will be best promoted by a slender diluting diet, intiful bleeding, and repeated purges. The part itself isst be fomented, and, if the skin be very tense, it may embrocated with a mixture of three-fourths of sweet oil, one-fourth of vinegar, and afterwards covered with a cze of wax-plaister.

If, notwithstanding these applications, the symptomatic er increases, and the tumour becomes larger, with tent pain and pulsation, it will be proper to promote suppuration. The best application for this purpose is oft poultice, which may be renewed twice a-day. If suppuration proceeds but slowly, a raw onion cut ill or bruised may be spread upon the poultice. When abscess is ripe or fit for opening, which may easily be own from the thinness of the skin in the most promitt part of it, a fluctuation of matter, which may be felt her the finger, and, generally speaking, an abatement the pain, it may be opened either with a lancet or by ans of caustic.

The last way in which an inflammation terminates, is gangrene or mortification, the approach of which may known by the following symptoms: the inflammation is its redness, and becomes duskish or lived : the tenof the skin goes off, and it feels slabby ; little bladders d with ichor of different colours spread all over it ; tumour subsides, and from a duskish complexion beues black ; a quick low pulse, with cold clammy sweats, the immediate forerunners of death.

When these symptoms first appear, the part ought to

496 OF INFLAMMATIONS AND ABSCESSES.

be dressed with London treacle, or a cataplasm made of lixivium and bran. Should the symptoms become worse, the part must be scarified, and afterwards dressed with basilicum softened with oil of turpentine. All the dressings must be applied warm. With regard to internal medicines, the patient must be supported with generous cordials, and the Peruvian bark exhibited in as large doses as the stomach will bear it. If the mortified parts should separate, the wound will become a common ulcer, and must be treated accordingly.

This article includes the treatment of all those diseases which, in different parts of the country, go by the name of *biles*, *imposthumes*, *whitloes*, &c. They are all abscesses in consequence of a previous inflammation, which, if possible ought to be discussed; but when this cannot be done the suppuration should be promoted, and the matter dis charged by an incision, if necessary; afterwards the son may be dressed with yellow basilicum, or some other di gestive ointment.

OF WOUNDS.

No part of medicine has been more mistaken than th treatment or cure of wounds. Mankind in general believ that certain herbs, ointments, and plaisters are possesse of wonderful healing powers, and imagine that no woun can be cured without the application of them. It is how ever a fact, that no external application whatever contributes towards the cure of a wound, any other way tha by keeping the parts soft, clean, and defending ther from the external air, which may be as effectually done b dry lint, as by the most pompous applications, while it exempt from many of the bad consequences attendin them.

The same observation holds with respect to internal ap plications. These only promote the cure of wounds a far as they tend to prevent a fever, or to remove an cause that might obstruct or impede the operations of Nature. It is Nature alone that cures wounds. All the Art can do is to remove obstacles, and to put the parts i

OF WOUNDS.

Ih a condition as is the most favourable to Nature's efts.

497

With this simple view we shall consider the treatment wounds, and endeavour to point out such steps as ought be taken to facilitate their cure.

The first thing to be done when a person has received wound, is to examine whether any foreign body be ged in it, as wood, stone, iron, lead, glass, dirt, bits cloth, or the like. These, if possible, ought to be exsted, and the wound cleaned, before any dressings be lied. When that cannot be effected with safety, on ount of the patient's weakness, or loss of blood, they st be suffered to remain in the wound, and afterwards racted when he is more able to bear it.

When a wound penetrates into any of the cavities of body, as the breast, the bowels, &c. or where any ssiderable blood vessel is cut, a skilful surgeon ought mediately to be called, otherwise the patient may lose life. But sometimes the discharge of the blood is so nt, that if it be not stopt, the patient may die even bea surgeon, though at no great distance, can arrive. tthis case, something must be done by those who are ssent. If the wound be in any of the limbs, the bleedmay generally be stopt by applying a tight ligature, or dage round the member a little above the wound. best method of doing this is to put a strong broad cer round the part, but so slack as easily to admit a small we of stick to be put under it, which must be twisted, he same manner as a countryman does a cart-rope to ure his loading, till the bleeding stops. Whenever is the case, he must take care to twist it no longer, straining it too much might occasion an inflammation ne parts, and endanger a gangrene.

n parts where this bandage cannot be applied, various er methods may be tried to stop the bleeding, as the lication of styptics, astringents, &c. Cloths dipped in olution of blue vitriol in water, or the styptic water of Dispensatories, may be applied to the wound. When e cannot be obtained, strong spirits of wine may be 3 R

OF WOUNDS.

used. Some recommend the *agaric* * of the oak as preferable to any of the other styptics; and indeed it deserves considerable encomiums. It is easily obtained, and ought to be kept in every family, in case of accidents. A piece of it must be laid upon the wound, and covered with a good deal of lint, above which a bandage may be applied so tight as to keep it firmly on.

Though spirits, tinctures, and hot balsams may be used, in order to stop the bleeding when it is excessive, they are improper at other times. They do not promote, but retard the cure, and often change a simple wound into an ulcer. People imagine, because hot balsams congeal the blood, and seem, as it were, to solder up the wound, that they therefore heal it : but this is only a deception. They may indeed stop the flowing blood, by searing the mouths of the vessels; but, by rendering the parts callous, they obstruct the cure.

In slight wounds, which do not penetrate much deeper than the skin, the best application is a bit of the common black sticking-plaister. This keeps the sides of the wound together, and prevents the air from hurting it, which is all that is necessary. When a wound penetrates deep, it is not safe to keep its lips quite close : this keeps in the matter, and is apt to make the wound fester. In this case the best way is to fill the wound with soft lint, commonly called *caddis*. It however must not be stuffed in too

* Dr Tissot, in his Advice to the People, gives the following direc tions for gathering, preparing, and applying the agaric .--- "Gatherin autumn," says he, "while the fine weather lasts, the agaric of th oak, which is a kind of fungus, or excrescence issuing from the wood o that tree. It consists at first of four parts, which present themselve successively: 1. The outward rind or skin, which may be thrown a way. 2. The part immediately under this rind, which is the best of all. This is to be beat well with a hammer, till it becomes soft and ver pliable. This is the only preparation it requires, and a slice of it of proper size is to be applied directly over the bursting open blood vessel It constringes and brings them close together, stops the bleeding, and ge nerally falls off at the end of two days. 3. The third part adherin to the second may serve to stop the bleeding from the smaller vessels and the fourth and last part may be reduced to powder as conducing t the same purpose."---Where the agaric cannot be had, sponge may b used in its stead. It must be applied in the same manner, and has near the same effects.

d, otherwise it will do hurt. The lint may be covered h a cloth dipped in oil, or spread with the common x plaister *; and the whole must be kept on by a probandage.

Ve shall not spend time in describing the different banes that may be proper for wounds in different parts of body; common sense will generally suggest the most modious method of applying a bandage; besides, deptions of this kind are not easily understood or renbered.

The first dressing ought to continue on for at least two s; after which it may be removed, and fresh lint apd as before. If any part of the first dressing sticks so e as not to be removed with ease or safety to the pat, it may be allowed to continue, and fresh lint dipin sweet oil laid over it. This will soften it, so as to te it come off easily at next dressing. Afterwards the ind may be dressed twice a-day in the same manner till e quite healed. Those who are fond of salves or ointits, after the wound is become very superficial; dress with the yellow basilicum \dagger ; and if fungous, or what is ed proud flesh, should rise in the wound, it may be cked, by mixing with the ointment a little burnt alum, ed precipitate of mercury.

When a wound is greatly inflamed, the most proper lication is a poultice of bread and milk, softened h a little sweet oil or fresh butter. This must be apd instead of a plaister, and should be changed twice iy.

f the wound be large, and there is reason to fear an ammation, the patient should be kept on a very low . He must abstain from flesh, strong liquors, and 'y thing that is of a heating nature. If he be of a habit, and has lost but little blood from the wound, must be bled; and, if the symptoms be urgent, the ration may be repeated. But when the patient has n greatly weakened by loss of blood from the wound, vill be dangerous to bleed him, even though a fever uld ensue. Nature should never be too far exhausted.

See Appendix, Wax plaister. See Appendix, Yellow basilieum:

OF BURNS.

It is always more safe to allow her to struggle with the disease in her own way, than to sink the patient's strength by excessive evacuations.

Wounded persons ought to be kept perfectly quiet and easy. Every thing that ruffles the mind or moves the passions, as love, anger, fear, excessive joy, &c. are very hurtful. They ought above all things to abstain from venery. The body should be kept gently open, either by laxative clysters, or by a cool vegetable diet, as roasted apples, stewed prunes, boiled spinage, and such like.

OF BURNS.

In slight burns which do not break the skin, it is customary to hold the part near the fire for a competent time, to rub it with salt, or to lay a compress upon it dipped in spirits of wine or brandy. But when the burn has penetrated so deep as to blister or break the skin, it must be dressed with some of the liniment for burns mentioned in the Appendix, or with the emollient and gently drying ointment, commonly called Turner's cerate *. This may be mixed with an equal quantity of fresh olive oil, and spread upon a soft rag, and applied to the part affected. When this ointment cannot be had, an egg may be beat up with about an equal quantity of the sweetest salad oil. This will serve very well till a proper ointment can be prepared. When the burning is very deep, after the first two or three days, it should be dressed with equal parts of yellow basilicum and Turner's cerute mixed together.

When the burn is violent, or has occasioned a high degree of inflammation, and there is reason to fear a gangrene or mortification, the same means must be used to prevent it as are recommended in other violent inflammations. The patient, in this case, must live low, and drink freely of weak diluting liquors. He must likewise be bled, and have his body kept open. But if the burnt parts should become livid or black, with other symptoms of mortification, it will be necessary to bathe them frequently with warm camphorated spirits of wine, tincture of myrrh, or other antiseptics, mixed with a decoction of

* See Appendix, Turner's cerale.

bark. In this case the bark must likewise be taken rnally, and the patient's diet must be more generous. s example teaches better than precept, I shall relate treatment of the most dreadful case of this kind that occurred in my practice. A middle-aged man, of a I constitution, fell into a large vessel full of boilwater, and miserably scalded about one half of his 7. As his clothes were on, the burning in some s was very deep before they could be got off. For first two days the scalded parts had been frequently nted with a mixture of lime-water and oil, which very proper application for recent burnings. On third day, when I first saw him, his fever was , and his body costive, for which he was bled, and an emollient clyster administered. Poultices of d and milk, softened with fresh butter, were likeapplied to the affected parts, to abate the heat inflammation. His fever still continuing high, he bled a second time, was kept strictly on the coolregimen, took the saline mixture with small doses of , and had an emollient clyster administered once a-When the inflammation began to abate, the parts dressed with a digestive, composed of brown cerate yellow basilicum. Where any black spots appeared, were slightly scarified, and touched with the tincture yrrh; and, to prevent their spreading, the Peruvian was administered. By this course, the man was so in three weeks as to be able to attend his business.

OF BRUISES.

to point out the method of treating it.

slight bruises it will be sufficient to bathe the part warm vinegar, to which a little brandy or rum may ionally be added, and to keep cloths wet with this ure constantly applied to it. This is more proper

OF BRUISES.

than rubbing it with brandy, spirits of wine, or other ar. dent spirits, which are commonly used in such cases.

In some parts of the country the peasants apply to a recent bruise a cataplasm of fresh cow-dung. I have often seen this cataplasm applied to violent contusions occasioned by blows, falls, bruises, and such like, and never knew it fail to have a good effect.

When a bruise is very violent, the patient ought immediately to be bled, and put upon a proper regimen. His food should be light and cool, and his drink weak, and of an opening nature; as whey, sweetened with honey, decoctions of tamarinds, barley, cream-tartar-whey, and such like. The bruised part must be bathed with vinegar and water, as directed above; and a poultice made by boiling crumb of bread, elder flowers, and camomile-flowers, in equal quantities of vinegar and water, applied to it. This poultice is peculiarly proper when a wound is joined to the bruise. It may be renewed two or three times a day.

As the structure of the vessels is totally destroyed by a violent bruise, there often ensues a great loss of substance which produces an ulcerous sore very difficult to cure. If the bone be affected, the sore will not heal before an exfoliation takes place; that is, before the diseased part of the bone separates, and comes out through the wound. This is often a very slow operation, and may even require several years to be completed. Hence it happens that these sores are frequently mistaken for the king's evil, and treated as such, though in fact they proceed sole ly from the injury which the solid parts received from the blow.

Patients in this situation are pestered with different ad vices. Every one who sees them proposes a new reme dy, till the sore is so much irritated with various and op posite applications, that it is often at length rendered ab solutely incurable. The best method of managing such sores is, to take care that the patient's constitution doe not suffer by confinement, or improper medicine, and the apply nothing to them besides simple ointment spread up on soft lint, over which a poultice of bread and milk with boiled camomile-flowers, or the like, may be put

OF ULCERS.

ourish the part, and keep it soft and warm. Nature, assisted, will generally in time operate a cure by wing off the diseased parts of the bone, after which fore soon heals.

OF ULCERS.

LCERS may be the consequence of wounds, bruises, nposthumes improperly treated; they may likewise eed from an ill state of the humours, or what may be d a bad habit of body.

the latter case, they ought not to be hastily dried otherwise it may prove fatal to the patient. Ulcers en most commonly in the decline of life; and persons neglect exercise, and live grossly, are most liable to . They might often be prevented by retrenching part of the solid food, or by opening artificial drains, ues, setons, or the like.

1 ulcer may be distinguished from a wound by its arging a thin watery humour, which is often so as to inflame and corrode the skin; by the hardness perpendicular situation of its sides or edges, by the of its duration, &c.

requires considerable skill to be able to judge wheor not an ulcer ought to be dried up. In general, Icers which proceed from a bad habit of body, d be suffered to continue open, at least till the conion has been so far changed by proper regimen, or se of medicine, that they seem disposed to heal of their accord. Ulcers which are the effect of malignant feor other acute diseases, may generally be healed with after the health has been restored for some time. cure ought not, however, to be attempted too soon, t any time without the use of purging medicines and per regimen. When wounds and bruises have, by g treatment, degenerated into ulcers, if the consti-1 be good, they may generally be healed with safe-When ulcers either accompany chronical diseases, or in their stead, they must be cautiously healed. ulcer conduces to the patient's health, from ever cause it proceeds, it ought not to be healed;

OF ULCERS.

but if, on the contrary, it wastes the strength, and consumes the patient by a slow fever, it should be healed a soon as possible.

We would earnestly recommend a strict attention to these particulars, to all who have the misfortune to la bour under this disorder, particularly persons in the declin of life; as we have frequently known people throw away their lives by the want of it, while they were extolling and generously rewarding those whom they ought to have look ed upon as their executioners.

The most proper regimen for promoting the cure of u cers, is to avoid all spices, salted and high-seasoned food all strong liquors, and to lessen the usual quantity of flas meat. The body ought to be kept gently open by a dis consisting chiefly of cooling laxative vegetables, and b drinking butter-milk, whey sweetened with honey, or th like. The patient ought to be kept cheerful, and show take as much exercise as he can easily bear.

When the bottom and sides of an ulcer seem hard an callous they may be sprinkled twice a-day with a litt red precipitate of mercury, and afterwards dressed wit the yellow *basilicum* ointment. Sometimes it will be n cessary to have the edges of the ulcer scarified with the lancet.

Lime-water has frequently been known to have ver happy effects in the cure of obstinate ulcers. It may l used in the same manner as directed for the stone ar gravel.

My late learned and ingenious friend, Dr Whytt, strong recommends the use of the solution of corrosive sublima of mercury in brandy, for the cure of obstinate ill-coditioned ulcers. I have frequently found this medicir when given according to the Doctor's directions, provery successful. The dose is a table-spoonful night a morning; at the same time washing the sore twice or thr a-day with it. In a letter which I had from the Doct a little before his death, he informed me, "That he of served washing the sore thrice a-day with the solution a triple strength was very beneficial *."

* In ulcers of the lower limbs great benefit is often received h

OF DISLOCATIONS.

fistulous ulcer can seldom be cured without an opeon. It must either be laid open so as to have its calparts destroyed by some corrosive application, or must be entirely cut away by the knife: but as this cation requires the hand of an expert surgeon, there o occasion to describe it. Ulcers about the *anus* are t apt to become fistulous, and are very difficult to . Some indeed pretend to have found Ward's Fistula e very successful in this complaint. It is not a dannus medicine, and being easily procured, it may dee a trial; but as these ulcers generally proceed from Il habit of body, they will seldom yield to any thing opt a long course of regimen, assisted by medicines, ch are calculated to correct that particular habit, and iduce an almost total change in the constitution.

CHAP. LI.

OF DISLOCATIONS.

7 HEN a bone is moved out of its place or articulation, so as to impede its proper functions, it is said to be ted or dislocated. As this often happens to persons in ations where no medical assistance can be obtained, which means limbs, and even lives, are frequently we shall endeavour to point out the method of reduthe most common luxations, and those which require ediate assistance. Any person of common sense and ution, who is present when a dislocation happens, often be of more service to the patient, than the most rt surgeon can, after the swelling and inflammation come on. When these are present, it is difficult now the state of the joint, and dangerous to attempt luction; and by waiting till they are gone off, the cles become so relaxed, and the cavity filled up, the bone can never afterwards be retained in its,

rollers, or wearing a laced stocking, as this prevents the flux of urs to the sores, and disposes them to heal. A recent dislocation may generally be reduced by extension alone, which must always be greater or less according to the strength of the muscles which move the joint, the age, robustness, and other circumstances of the patient. When the bone has been out of its place for any considerable time, and a swelling or inflammation has come on, it will be necessary to bleed the patient, and, after fomenting the part, to apply soft poultices with vinegar to it for some time before the reduction is attempted.

All that is necessary after the reduction, is to apply cloths dipt in vinegar or camphorated spirits of wine to the part, and to keep it perfectly easy. Many bad consequences proceed from the neglect of this rule. A dislocation seldom happens without the tendons and ligaments of the joint being stretched and sometimes torn. When these are kept easy till they recover their strength and tone, all goes on very well; but if the injury be increased by too frequent an exertion of the parts, no wonder if they be found weak and diseased ever after.

DISLOCATION OF THE JAW.

THE lower jaw may be luxated by yawning, blows, fails, chewing hard substances, or the like. It is easily known from the patients being unable to shut his mouth or to eat any thing, as the teeth of the under jaw do not correspond with those of the upper; besides, the chin either hangs down, or is thrown towards one side, and the patient is neither able to speak distinctly, nor to swallow without considerable difficulty.

The usual method of reducing a dislocated jaw, is a set the patient upon a low stool, so as an assistant may hold the head firm by pressing it against his breast. The operator is then to thrust his two thumbs, being firs wrapped up with linen cloths that they may not slip, a far back into the patient's mouth as he can, while his fingers are applied to the jaw externally. After he has go firm hold of the jaw, he is to press it strongly down wards and backwards, by which means the elapsed head

DISLOCATION OF THE NECK.

the jaw may be easily pushed into their former cavi-

The peasants in some parts of the country have a pear way of performing this operation. One of them puts andkerchief under the patient's chin, then turning his a to that of the patient, pulls him up by the chin so as uspend him from the ground. This method often suclls, but we think it a dangerous one, and therefore remend the former.

DISLOCATION OF THE NECK.

IHE neck may be dislocated by falls, violent blows, or like. In this case, if the patient receives no assistance, coon dies, which makes people imagine the neck was ken; it is, however, for the most part only partially ocated, and may be reduced by almost any person who resolution enough to attempt it. A complete dislocaof the neck is instantaneous death.

Then the neck is dislocated, the patient is immediately rived of all sense and motion; his neck swells, his intenance appears bloated; his chin lies upon his st, and his face is generally turned towards one

to reduce this dislocation, the unhappy person should dediately be laid upon his back on the ground, and operator must place himself behind him so as to be to lay hold of his head with both hands, while he es a resistance by placing his knees against the patient's lders. In this posture he must pull the head with conrable force, gently twisting it at the same time, if the be turned to one side, till he perceives that the joint eplaced, which may be known from the noise which bones generally make when going in, the patient's nning to breathe, and the head continuing in its natuposture.

his is one of those operations which it is more easy to orm than describe. I have known instances of its g happily performed even by women, and often by of no medical education. After the neck is reduced, patient ought to be bled, and should be suffered to

DISLOCATION OF THE RIBS.

rest for some days, till the parts recover their proper tone.

DISLOCATION OF THE RIBS.

As the articulation of the ribs with the back-bone is very strong, they are not often dislocated. It does however some times happen, which is a sufficient reason for taking notice of it. When a rib is dislocated either upwards or downwards, in order to replace it, the patient should be laid upon his belly on a table, and the operator must endeavour to push the head of the bone into its proper place. Should this method not succeed, the arm of the disordered side may be suspended over a gate or ladder, and, while the ribs are thus stretched asunder, the heads of such as are out of place may be thrust into their former situation.

Those dislocations wherein the heads of the ribs are forced inwards, are both more dangerous and the most difficult to reduce, as neither the hand nor any instrument can be applied internally to direct the luxated heads of the ribs. Almost the only thing that can be done is, to lay the patient upon his belly over a cask, or some gibbous body, and to move the fore-part of the rib inward towards the back, sometimes shaking it; by this mean the heads of the luxated ribs may slip into their forme place.

DISLOCATION OF THE SHOULDER.

THE humerus or upper bone of the arm may be dislocated ed in various directions: it happens however most free quently downwards, but very seldom directly upwards From the nature of its articulation, as well as from its exposure to external injuries, this bone is the most subject to dislocation of any in the body. A dislocation of the humerus may be known by a depression or cavity of the top of the shoulder, and an inability to move the arm When the dislocation is downward, or forward, the arm is elongated, and a ball or lump is perceived under the arm pit; but when it is backward, there appears a protube

DISLOCATION OF THE SHOULDER.

e behind the shoulder, and the arm is thrown forwards ards the breast.

he usual method of reducing dislocations of the shoulder , seat the patient upon a low stool, and to cause an tant to hold his body so that it way give way to the nsion, while another lays hold of the arm a little above elbow, and gradually extends it. The operator then a napkin under the patient's arm, and causes it to be behind his own neck : by this, while a sufficient exon is made, he lifts up the head of the bone, and with ands directs it into its proper place. There are varimachines invented for facilitating this operation, but hand of an expert surgeon is always more safe. In ig and delicate patients, I have generally found it a easy matter to reduce the shoulder, by extending the with one hand, and thrusting in the head of the bone the other. In making the extension, the arm ought ys to be a little bent.

DISLOCATION OF THE ELBOW.

HE bones of the fore-arm may be dislocated in any etion. When this is the case, a protuberance may be rved on that side of the arm towards which the bone ushed, from which, and the patient's inability to his arm, a dislocation of this joint may easily be vn.

vo assistants are generally necessary for reducing a cation of the elbow; one of them must lay hold of urm above, and the other below the joint, and make etty strong extension, while the operator returns the s into their proper place. Afterwards the arm must ent, and suspended for some time with a sling about neck.

ixations of the wrist and fingers are to be reduced in ame manner as those of the elbow, viz. by making an ision in different directions, and thrusting the head of bone into its place.

DISLOCATION OF THE THIGH.

WHEN the thigh-bone is dislocated forward and downward, the knee and foot are turned out, and the leg is longer than the other; but when it is displaced backward, it is usually pushed upwards at the same time, by which means the limb is shortened, and the foot is turned inwards.

When the thigh-bone is displaced forward and downward, the patient, in order to have it reduced, must be laid upon his back, and made fast by bandages, or held by assistants, while by others an extension is made by means of slings fixed about the bottom of the thigh a little above the knee. While the extension is made, the operato must push the head of the bone outward, till it gets into the socket. If the dislocation be outward, the patient must be laid upon his face, and, during the extension, the head of the bone must be pushed inward.

Dislocations of the knees, ancles, and toes, are reduced much in the same manner as those of the upper extremities, viz. by making an extension in opposite directions while the operator replaces the bones. In many cases however, the extension alone is sufficient, and the bonwill slip into its place merely by pulling the limb wit sufficient force. It is not hereby meant, that force alon is sufficient for the reduction of dislocations. Skill an address will often succeed better than force. I hav known a dislocation of the thigh reduced by one man, at ter all the force that could be used by six had proved in effectual.

CHAP. LII.

OF BROKEN BONES, Sc.

THERE is, in most country villages, some person when pretends to the art of reducing fractures. Though is general such persons are very ignorant, yet some of the are very successful; which evidently proves, that a small degree of learning, with a sufficient share of common semi-

OF BROKEN BONES, Sc.

I a mechanical head, will enable a man to be useful in way. We would, however, advise people never to ploy such operators, when an expert and skilful surn can be had; but when that is impracticable, they st be employed : we shall therefore recommend the foling hints to their consideration :

When a large bone is broken, the patient's diet ought ill respects to be the same as in an inflammatory fever. should likewise be kept quiet and cool, and his body in by emollient clysters'; or, if these cannot be conveintly administered, by food that is of an opening qualias stewed prunes, apples boiled in milk, boiled spin-, and the like. It ought however to be here remarkthat persons who have been accustomed to live high, not all of a sudden to be reduced to a very low diet. s might have fatal effects. There is often a necessity indulging even bad habits, in some measure, where the ner of the disease might require a different treatment.

t will generally be necessary to bleed the patient immerely after a fracture, especially if he be young, of a full iit, or has at the same time received any bruise or concon. This operation should not only be performed in after the accident happens, but if the patient be very trish, it may be repeated next day. When several of ribs are broken, bleeding is peculiarly necessary.

Tany of the large bones which support the body are teen, the patient must keep his bed for several weeks. by no means necessary, however, that he should lie that time, as is customary, upon his back. This situin sinks the spirits, galls and frets the patient's skin, renders him very uneasy. After the second week he be gently raised up, and may sit several hours, supted by a bed-chair, or the like, which will greatly rete him. Great care, however, must be taken in raising up, and laying him down, that he make no exertions self, otherwise the action of the muscles may pull the te out of its place *.

Various pieces of machinery have been contrived for counteracting orce of the muscles, and retaining the fragments of broken b nes; as descriptions of these without drawings would be of little use, I refer the reader to a cheap and useful performance on the nature It is of great importance to keep the patient dry and clean while in this situation. By neglecting this, he is often so galled and excoriated, that he is forced to keep shifting places for ease. I have known a fractured thigh bone, after it had been kept straight for above a fortnight displaced by this means, and continue bent for life, in spit of all that could be done.

It has been customary when a bone was broken, to kee the limb for five or six weeks continually upon the stretch But this is a bad posture. It is both uneasy to the patient and unfavourable to the cure. The best situation is t keep the limb a little bent. This is the posture into whic every animal puts its limbs when it goes to rest, and i which fewest muscles are upon the stretch. It is easil effected, by either laying the patient upon his side, o making the bed so as to favour this position of the limb.

Bone-setters ought carefully to examine whether the bon be not shattered or broken into several pieces. In this cas it will sometimes be necessary to have the limb immediate ly taken off, otherwise a gangrene or mortification may ensue. The horror which attends the very idea of amputtion often occasions its being delayed in such cases till to late. I have known this principle operate so strongly, th a limb, where the bones were shattered into more that twenty pieces, was not amputated before the third day a ter the accident, when the gangrene had proceeded so f as to render the operation useless.

When a fracture is accompanied with a wound, it mu be dressed in all respects as a common wound.

All that art can do towards the cure of a broken bone, to lay it perfectly straight, and to keep it quite easy. A tight bandages do hurt. They had much better be war ing altogether. A great many of the bad consequence which succeed to fractured bones are owing to tight ba dages. This is one of the ways in which the excess of a

and cure of fractures, lately published by my ingenious friend Mr A ken, surgeon in Edinburgh; wherein that gentleman has not only giv an account of the machines recommended in fractures by former author but has likewise added several improvements of his own, which are per arly useful in compound fractures, and in cases where patients with brok bones are obliged to be transported from one place to another. rather the abuse of it, does more mischief than would occasioned by the want of it. Some of the most sudcures of broken bones which were ever known, haped where no bandages were applied at all. Some meid however must be taken to keep the member steady ; this may be done many ways without bracing it with a nt bandage.

The best method of retention is by two or more splints lie of leather or pasteboard. These, if moistened bethey be applied, soon assume the shape of the includmember, and are sufficient, by the assistance of a very ht bandage, for all the purposes of rentention. The dage which we would recommend is that made with live or eighteen tails. It is much easier applied and takoff than rollers, and answers all the purposes of renon equally well. The splints should always be as long the limb, with holes cut for the ancles when the fracture in the leg.

m fractures of the ribs, where a bandage cannot be perly used, an adhesive plaster may be applied over part. The patient in this case ought to keep himself te easy, avoiding every thing that may occasion sneezing, thing, coughing, or the like. He ought to keep his body straight posture, and should take care that his stoth be constantly distended, by taking frequently some tt food, and drinking freely of weak watery liquors. The most proper external application for a fracture is trate, or a mixture of vinegar and water. The banters should be wet with this at every dressing.

OF STRAINS!

TRAINS are often attended with worse consequences broken bones. The reason is obvious; they are gelly neglected. When a bone is broken, the patient is ged to keep the member easy, because he cannot be use of it; but when a joint is only strained, the on, finding he can still make a shift to move it, is y to lose his time for so trifling an ailment. In this he deceives himself, and converts into an incurable

3 T

OF STRAINS.

malady what might have been removed by only keeping the part easy for a few days.

Country people generally immerse a strained limb in cold water. This is very proper, provided it be done immediately, and not kept in too long. But the custom of keeping the part immersed in cold water for a long time is certainly dangerous. It relaxes instead of bracing the part, and is more likely to produce a disease than remove one.

Wrapping a garter or some other bandage, pretty tight about the strained part, is likewise of use. It helps to restore the proper tone of the vessels, and prevents the action of the parts from increasing the disease. It should not however be applied too tight. I have frequently known bleeding near the affected part have a very good effect: but what we would recommend above all is *ease*. It is more to be depended on than any medicine, and seldom fails to remove the complaint *.

OF RUPTURES.

CHILDREN and old people are most liable to this disease In the former it is generally occasioned by excessive crying, coughing, vomiting, or the like. In the latter, it is commonly the effect of blows or violent exertions of the strength, as leaping, carrying great weights, &c. In both a relaxed habit, indolence, and an oily or very moist diet dispose the body to this disease.

A rupture sometimes proves fatal before it is discovered Whenever sickness, vomiting, and obstinate costivenes give reason to suspect an obstruction of the bowels, al those places where ruptures usually happen ought care fully to be examined. The protrusion of a very sma part of the gut, will occasion all these symptoms; and, not returned in due time will prove mortal.

* A great many external applications are recommended for strain some of which do good and others hurt. The following are such as more be used with the greatest safety, viz. poultices made of stale beer or vin gar and oatmeal, camphorated spirits of wine, Mindererus' spirit, volati liniment, volatile aromatic spirit diluted with a double quantity of wate and the common fomentation, with the addition of brandy or spirit wine.

On the first appearance of a rupture in an infant, it ight to be laid upon its back, with its head very low. Thile in this posture, if the gut does not return of itself, may easily be put up by gentle pressure. After it is rerned, a piece of sticking-plaster may be applied over the art, and a proper truss or bandage must be constantly orn for a considerable time. The method of making ad applying these rupture-bandages for Children is pretwell known. The child must, as far as possible, be pt from crying, and from all violent exertions, till the pture is quite healed.

In adults, when the gut has been forced down with teat violence, or happens from any cause to be inflamed, ere is often great difficulty in returning it, and somemes the thing is quite impracticable without an operaon; a description of which is foreign to our purpose. I have been fortunate enough, however, always to sucred in my attempts to return the gut, without having renurse to any other means than what are in the power of tery man, I shall briefly mention the method which I genursult.

After the patient has been bled, he must be laid upon ss back, with his head very low, and his breech raised gh with pillows. In this situation flannel-cloths wrung it of a decoction of mallows and camomile-flowers, or, these are not at hand, of warm water, must be applied r a considerable time. A clyster made of this decoction, the a large spoonful of butter, and an ounce or two of It, may be afterwards thrown up. If these should not cove successful, recourse must be had to pressure. If e tumour be very hard, considerable force will be necesry; but it is not force alone which succeeds here. The erator, at the same time that he makes a pressure with e palms of his hand, must with his fingers artfully conict the gut in by the same aperture through which it me out. The manner of doing this can be much easier nceived than described. Should these endeavours prove effectual, clysters of the smoke of tobacco may be tried. nese have been often known to succeed where every oer method failed.

There is reason to believe that, by persisting in the use 3T 9

OF RUPTURES.

of these, and such other means as the circumstances of the case may suggest, most *hernias* might be reduced without an operation. Cutting for the *hernia* is a nice and difficult matter. I would therefore advise surgeons to try every method of returning the gut before they have recourse to the knife. I have once and again succeeded by persevering in my endeavours, after eminent surgeons had declared the reduction of the gut impracticable without an operation *.

An adult, after the gut has been returned, must wear a steel bandage. It is needless to describe this, as it may always be had ready made from the artists. Such bandages are generally uneasy to the wearer for some time, but by custom they become quite easy. No person who has had a rupture after he arrived at man's estate should ever be without one of these bandages.

Persons who have a rupture ought carefully to avoid all violent exercise, carrying great weights, leaping, running, and the like. They should likewise avoid windy aliment and strong liquors; and should carefully guard against catching cold.

CHAP. LIII.

OF CASUALITIES.

T is certain that life, when to all appearance lost, may often, by due care, be restored. Accidents frequently prove fatal, merely because proper means are not used to counteract their effects. No person ought to be looked upon as killed by any accident, unless where the structure of the heart, brain, or some organ necessary to life, is evidently destroyed. The action of these organs may

* I would here beg leave to recommend it to every practitioner, when his patient complains of pain in the belly with obstinate costiveness, to examine the groins and every place where a rupture may happen, in order that it may be immediately reduced. By neglecting this, many perish who were not suspected to have had ruptures till after they were dead. have known this happen where half a dozen of the faculty were in artendance.

\$16.

so far impaired as even to be for some time impercepe, when life is by no means gone. In this case, howr; if the fluids be suffered to grow cold, it will be imsible to put them again in motion, even though the hs should recover their power of acting. Thus, when motion of the lungs has been stopt by unwholesome our, the action of the heart by a stroke upon the breast, he functions of the brain by a blow on the head, if the on be suffered to grow cold, he will in all probability tinue so; but, if the body be kept warm, as soon as injured part has recovered its power of acting, the ls will again begin to move, and all the vital functions be restored.

is a horrid custom immediately to consign over to Ih every person who has the misfortune, by a fall, a w, or the like, to be deprived of the appearance of The unhappy person, instead of being carried into arm house, and laid by the fire, or put to a warm , is generally hurried away to church, or a barn, or e other cold damp house, where, after a fruitless atpt has been made to bleed him, perhaps by one who w nothing of the matter, he is given over for dead, and further notice taken of him. This conduct seems to the result of ignorance, supported by an ancient suititious notion, which forbids the body of any person d by accident to be laid in an house that is inhabited. at the ground of this superstition may be, we shall not cend to inquire ; but surely the conduct founded upon contrary to all the principles of reason, humanity, and mon sense.

hen a person seems to be suddenly deprived of life, first business is to inquire into the cause. We ought fully to observe whether any substance be lodged in the lipipe or gullet; and, if that is the case, attempts must made to remove it. When unwholesome air is the c, the patient ought immediately to be removed out t. If the circulation be suddenly stopped, from any te whatever, except mere weakness, the patient should led. If the blood does not flow, he may be immersn warm water, or rubbed with warm cloths, &c. to note the circulation. When the cause cannot be sud-

SUBSTANCES STOPT BETWEEN

denly removed, our great aim must be to keep up the vital warmth, by rubbing the patient with hot cloths, or salt, and covering his body with warm sand, ashes, or the like.

I should now proceed to treat more fully of those accidents, which, without immediate assistance, would often prove fatal, and to point out the most likely means for relieving the unhappy sufferers; but as I have been happily anticipated in this part of my subject by the learned and humane Dr Tissot, I shall content myself with selecting such of his observations as seem to be the most important, and adding such of my own as have occurred in the course of practice.

OF SUBSTANCES STOPT BETWEEN THE MOUTH AND STOMACH.

THOUGH accidents of this kind are very common, and extremely dangerous, yet they are generally the effect of carelessness. Children should be taught to chew then food well, and to put nothing into their mouths which is would be dangerous for them to swallow. But children are not the only persons guilty of this piece of imprudence I know many adults who put pins, nails, and other sharp pointed substances in their mouths upon every occasion and some who even sleep with the former there all night This conduct is exceedingly injudicious, as a fit of cough ing, or twenty other accidents, may force over the sub stance before the person is aware *.

When any substance is detained in the gullet, ther are two ways of removing it, viz. either by extract ing it, or pushing it down. The safest and mos certain way is to extract it; but this is not always th easiest; it may therefore be more eligible sometimes t thrust it down, especially when the obstructing body i of such a nature, that there is no danger from its reception into the stomach. The substances which may b pushed down without danger are, all common nourist

* A woman in one of the hospitals of this city lately discharged a gre number of pins, which she had swallowed in the course of her busines through an ulcer in her side.

THE MOUTH AND STOMACH.

cones, as bread, flesh, fruits, and the like. All indiiible bodies, as cork, wood, bones, pieces of metal, and n like, ought, if possible, to be extracted, especially if ce bodies be sharp pointed, as pins, needles, fish-bones, of glass, &c.

Then such substances have not passed in too deep, we uld endeavour to extract them with our fingers, which hod often succeeds. When they are lower, we must the use of nippers, or a small pair of forceps, such as reons use. But this attempt to extract rarely succeeds, the substance be of a flexible nature, and has descended into the gullet.

the fingers and nippers fail, or cannot be duly ap-II, crotchets, a kind of hooks, must be employed. se may be made at once, by bending a piece of pretty mg iron wire at one end. It must be introduced in flat way; and for the better conducting it, there Ild likewise be a curve or bending at the end it is held tto serve as a kind of handle to it; which has this ner use, that it may be secured by a string tied to it, cumstance not to be omitted in any instrument emed on such occasions, to avoid such ill accidents as sometimes ensued from these instruments slipping of the operator's hand. After the crotchet has passed w the substance that obstructs the passage, it is drawn gain, and hooks up the body along with it. The crotchet overy convenient, when a substance somewhat flexible, pin or fish-bone, sticks across the gullet, the hook, in cases, seizing them about their middle part, crooks thus disengages them; or, if they are very brittle subes, serves to break them.

hen the obstructing bodies are small, and only stop part of the passage, and which may either easily elude nook, or straiten it by their resistance, a kind of rings, e either of wire, wool, or silk, may be used. A piece ne wire of a proper length may be bent into a circle, it the middle, of about an inch diameter, and the long ent sides brought parallel, and near each other: these to be held in the hand, and the circular part, or ring, aduced into the gullet, in order to be conducted about bbstructing body, and so to extract it. More flexible rings may be made of wool, thread, silk, or small packthread, which may be waxed for their greater strength and consistence. One of these is to be tied fast to a handle of iron-wire, whale-bone, or any kind of flexible wood, and by this means introduced, in order to surround the obstructing substance, and to draw it out. Several of these rings passed through one another may be used, the more certainly to lay hold of the obstructing body, which may be involved by one, if another should miss it. These rings have one advantage, which is, that when the substance to be extracted is once laid hold of, it may then, by turning the handle, be retained so strongly in the ring thus twisted, as to be moved every way, which must in many cases be a considerable advantage.

Another material employed on these unhappy occasions is the sponge: Its property of swelling considerably on being wet is the principal foundation of its usefulness here. If any substance is stopt in the gullet, but without filling up the whole passage, a bit of sponge may be introduced into that part which is unstopt, and beyond the substance. The sponge soon dilates, and grows larger in this moist situation; and indeed the enlargement of it may be forwarded by making the patient swallow a few drops of water. Afterward it is to be drawn back by the handle to which it is fastened; and as it is now too large to return through the small cavity by which it was conveyed in, it draws out the obstructing body along with it.

The compressibility of sponge is another foundation of its usefulness in such cases. A pretty large piece of sponge may be compressed or squeezed into a small size, by winding a string of tape closely about it, which may be easily unwound, and withdrawn, after the sponge has been introduced. A bit of sponge may likewise be compressed by a piece of whale-bone split at one end; but this can hardly be introduced in such a manner as not to hurt the patient.

I have often known pins and other sharp bodies, which had stuck in the throat, brought up by causing the person to swallow a bit of tough meat tied to a thread, and drawing it quickly up again. This is safer than swallowing sponge, and will often answer the purpose equally well.

When all these methods prove unsuccessful, there retins one more, which is, to make the patient vomit: at this can scarcely be of any service, unless when such structing bodies are simply engaged in, and not hooked stuck into the sides of the gullet, as in this case vomitg might occasion further mischief. If the patient can allow, vomiting may be excited by taking half a drachm two scruples of ipecacuanha in powder made into a nught. If he is not able to swallow, an attempt may be ade to excite vomiting, by tickling his throat with a uther; and, if that should not succeed, a clyster of totocco may be administered. It is made by boiling an ince of tobacco in a sufficient quantity of water : this has ten been found to succeed, when other attempts to excite miting had failed.

When the obstructing body is of such a nature that it ny with safety be pushed downwards, this may be atmpted by means of a wax-candle oiled, and a little heat-, so as to make it flexible: or a piece of whale-bone, re, or flexible wood, with a spunge fastened to one end. Should it be impossible to extract even those bodies nich it is dangerous to admit into the stomach, we must en prefer the least of two evils, and rather run the hazard pushing them down than suffer the patient to perish in itew minutes; and we ought to scruple this resolution the ss, as a great many instances have happened, where the sallowing of such hurtful and indigestible subtances has ten followed by no disorder.

Whenever it is manifest that all endeavours either to exct or push down the substance must prove ineffectual, by should be discontinued; because the inflammation ocsioned by persisting in them might be as dangerous as a obstruction itself. Some have died in consequence of a inflammation, even after the body which caused the struction had been entirely removed.

While the means recommended above are making use the patient should often swallow, or, if he cannot, he ould frequently receive by injection through a crooked be, or pipe that may reach down to the gullet, some emolliit liquor, as warm milk and water, barley-water, or a decocm of mallows. Injections of this kind not only soften and

SUBSTANCES STOPT BETWEEN, &c.

622

sooth the irritated parts, but, when thrown in with force, are often more successful in loosening the obstruction than all attempts with instruments.

When, after all our endeavours, we are obliged to leave the obstructing body in the part, the patient must be treated as if he had an inflammatory disease. He should be bled, kept upon a low diet, and have his whole neck surrounded with emollient poultices. The like treatment must also be used, if there be any reason to suspect an inflammation of the passages, though the obstructing body be removed.

A proper degree of agitation has sometimes loosened the inhering body more effectually than instruments. Thus, a blow on the back has often forced up a substance which stuck in the gullet; but this is still more proper and efficacious when the substance gets into the wind-pipe. In this case, vomiting and sneezing are likewise to be excited. Pins, which stuck in the gullet, have been frequently discharged by riding on horseback, or in a carriage.

When any indigestible substance has been forced down into the stomach, the patient should use a very mild and smooth diet, consisting chiefly of fruits and farinaceous substances, as puddings, pottage, and soups. He should avoid all heating and irritating things, as wine, punch, pepper, and such like; and his drink should be milk and water, barleywater, or whey.

When the gullet is so strongly and fully closed, that the patient can receive no food by the mouth, he must be nou rished by clysters of soup, jelly, and the like.

When the patient is in danger of being immediately suf focated, and all hope of freeing the passage is vanished, so that death seems at hand, if respiration be not restored the operation of *bronchotomy*, or opening of the wind-pipe must be directly performed. As this operation is neithe difficult to an expert surgeon, nor very painful to the pa tient, and is often the only method which can be taken to preserve life in these emergencies, we thought proper to mention it, though it should only be attempted by person skilled in surgery.

OF DROWNED PERSONS.

WHEN a person has remained above a quarter of an hour der water, there can be no considerable hopes of his revery. But as several circumstances may happen to have ntinued life, in such an unfortunate situation, beyond the linary term, we should never too soon resign the unhappy ject to his fate, but try every method for his relief, as there many well attested proofs of the recovery of persons to and health who had been taken out of the water appantly dead, and who remained a considerable time without hibiting any signs of life.

The first thing to be done, after the body is taken out of e water, is to convey it as soon as possible to some conmient place where the necessary operations for its recovery my be performed. In doing this, care must be taken not bruise or injure the body by carrying it in any unnatuposture with the head downwards, or the like. If an alt body, it ought to be laid on a bed, or on straw, with e head a little raised, and carried on a cart or on men's coulders, and kept in as natural and easy a position as posble. A small body may be carried in the arms.

In attempting to recover persons apparently drowned, the incipal intention to be pursued is, to restore the natural carmtb, upon which all the vital functions depend; and to ceite these functions by the application of stimulants, not ly to the skin, but likewise to the lungs, intestines, &c.

Though cold was by no means the cause of the person's eath, yet it will prove an effectual obstacle to his recovery. or this reason, after stripping him of his wet clothes, his dy must be strongly rubbed for a considerable time th coarse linen cloths, as warm as they can be made; ad, as soon as a well-heated bed can be got ready, he ay be laid in it, and the rubbing should be continued. 'arm cloths ought likewise to be frequently applied to te stomach and bowels, and hot bricks, or bottles of arm water, to the soles of his feet, and to the palms of is hands.

Strong volatile spirits should be frequently applied to the nose; and the spine of the back and pit of the sto. mach may be rubbed with warm brandy, or spirit of wine. The temples ought always to be chafed with volatile spirits; and stimulating powders, as that of tobacco or marjoram, may be blown up the nostrils.

To renew the breathing, a strong person may blow his own breath into the patient's mouth with all the force he can, holding his nostrils at the same time. When it can be perceived by the rising of the chest or belly that the lungs are filled with air, the person ought to desist from blowing, and should press the breast and belly so as to expel the air again; and this operation may be repeated for some time, alternately inflating and depressing the lungs so as to imitate natural respiration.

If the lungs cannot be inflated in this manner, it may be attempted by blowing through one of the nostrils, and at the same time keeping the other close. Dr Monro for this purpose recommends a wooden pipe fitted at one end for filling the nostril, and at the other for being blown into by a person's mouth, or for receiving the pipe of a pair of bellows, to be employed for the same purpose, if necessary.

When air cannot be forced into the chest by the mouth or nose, it may be necessary to make an opening into the wind-pipe for this purpose. It is needless, however, to spend time in describing this operation, as it should not be attempted, unless by persons skilled in surgery.

To stimulate the intestines, the fume of tobacco may be thrown up in form of clyster. There are various pieces of apparatus contrived for this purpose, which may be used when at hand; but where these cannot be obtained, the business may be done by a common tobacco pipe. The bowl of the pipe must be filled with tobacco well kindled, and, after the small tube has been introduced into the fundament, the smoke may be forced up by blowing through a piece of paper full of holes wrapped round the mouth of the pipe, or by blowing through an empty pipe, the mouth of which is applied close to that of the other. This may also be done in the following manner: A common clyster pipe, with a bag mounted upon it, may be introduced into the fundament, and the mouth of the bag may be applied round the small end of a tobacco-pipe, in the bowl of ich tobacco is to be kindled, and the smoke blown up, directed above. Should it be found impracticable to ow up the smoke of tobacco, clysters of warm water, in the addition of a little salt and some wine or spirits, by be frequently administered. This may be done by a nmon clyster bag and pipe; but, as it ought to be own well up, a pretty large syringe will answer the pure better.

While these things are doing, some of the attendants ght to be preparing a warm bath, into which the person puld be put, if the above endeavours prove ineffectual. here there are no conveniences for using the warm bath, body may be covered with warm salt, sand, ashes, ins, or such like. Tissot mentions an instance of a girl to was restored to life, after she had been taken out of water, swelled, bloated, and to all appearance dead, by ing her naked body upon hot ashes, covering her with ters equally hot, putting a bonnet round her head, and a cking round her neck stuffed with the same, and heap-; coverings over all. After she had remained half an ur in this situation, her pulse returned, she recovered ech, and cried out, I freeze, I freeze ; a little cherryundy was given her, and she remained buried as it were der the ashes for eight hours; afterwards she was taken without any other complaint except that of lassitude wearingss, which went off in a few days. The Doctor intions likewise an instance of a man who was restored ife, after he had remained six hours under water, by the nt of a dunghill.

Fill the patient shews some signs of life, and is able to allow, it would be useless, and even dangerous, to pour uors into his mouth. His lips, however, and tongue, y be frequently wet with a feather dipt in warm branor other strong spirits; and, as soon as he has recoverthe power of swallowing, a little warm wine, or some mer cordial, ought every now and then to be admittered.

Some recommend a vomit after the patient is a little animated; but if he can be made to puke without sickening draught, it will be more safe: this may nerally be done by tickling the throat and fauces with an oiled feather, or some other soft substance, which will not injure the parts. Tissot in this case recommends the oxymel of squills, a table-spoonful of which, diluted with water, may be given every quarter of an hour, till the patient has taken five or six doses. Where that medicine is not at hand, a strong infusion of sage, cammomile-flowers, or *carduous benedictus*, sweetened with honey, or some warm water, with the addition of a little salt, may, he says, supply its place. The Doctor does not intend that any of these things should be given in such quantity as to occasion vomiting. He thinks emetics in this situation are not expedient.

We are by no means to discontinue our assistance as soon as the patients discover some tokens of life, since they sometimes expire after these first appearances of recovering. The warm and stimulating applications are still to be continued, and small quantities of some cordial liquor ought frequently to be administered. Lastly, though the person should be manifestly re-animated, there sometimes remain an oppression, a cough, and feverishness, which effectually constitute a disease. In this case it will be necessary to bleed the patient in the arm, and to cause him to drink plentifully of barley-water, elder-flower-tea, or any other soft pectoral infusions.

Such persons as have the misfortune to be deprived of the appearances of life, by a fall, a blow, suffocation, or the like, must be treated nearly in the same manner as those who have been for some time under water. I once attended a patient who was so stunned by a fall from a horse, that for above six hours he scarcely exhibited any signs of life; yet this man, by being bled, and proper methods taken to keep up the vital warmth, recovered, and in a few days was perfectly well. Dr Alexander gives an instance to the same purpose, in the Edinburgh Physical and Literary Essays, of a man who was to all appearance killed by a blow on the breast, but recovered upon being immersed for some time in warm water. These, and other instances of a similar nature, which might be adduced, amount to a full proof of this fact, that many of those unhappy persons who lose their lives by

OF NOXIOUS VAPOURS.

, blows, and other accidents, might be saved by the use proper means duly persisted in.

OF NOXIOUS VAPOURS.

IR may be many ways rendered noxious, or even dective to animals. This may either happen from its viing principle being destroyed, or from subtle exhalais with which it is impregnated. Thus air that has sed through burning fuel is neither capable of supportfire nor the life of animals. Hence the danger of ping in close chambers with charcoal fires. Some, ind, suppose the danger here proceeds from the sulphureoil contained in the charcoal, which is set at liberty diffused all over the chamber; while others imagine it wing to the air of the room being charged with phlogis-. Be this as it may, it is a situation carefully to be aded. Indeed, it is dangerous to sleep in a small apartnt with a fire of any kind. I lately saw four persons to had been suffocated by sleeping in an apartment where mail fire of coal had been left burning.

The vapours which exhales from wine, cyder, beer, or er liquors, in the state of fermentation, contains someing poisonous, which kills in the same manner as the vain of coal. Hence there is always danger in going into lars where a large quantity of these liquors is in a state fermentation, especially if they have been close shut up some time. There have been many instances of persons inck dead on entering such places, and of others who have lh difficulty escaped.

When subterraneous caves, that have been very long it, are opened, or when deep wells are cleaned, which we not been emptied for several years, the vapours aing from them produce the same effects as those menned above. For this reason, no person ought to vente into a well, pit, cellar, or any place that is damp, and been long shut up, till the air has been sufficientpurified, by burning gun-powder in it. It is easy to ow, as has been observed in a former part of this work, ten the air of such places is unwholesome, by letting wn a lighted candle, throwing in burning fuel, or the

like. If these continue to burn, people may safely venture in; but where they are suddenly extinguished, no one ought to enter till the air has been first purified by fire.

The offensive smell of lamps and of candles, especially when their flames are extinguished, operate like other vapours, though with less violence, and less suddenly. There have, however, been instances of people killed by the fumes of lamps which had been extinguished in a close chamber, and persons of weak delicate breasts generally find themselves quickly oppressed in apartments illuminated with many candles.

Such as are sensible of their danger in these situations, and retreat seasonably from it, are generally relieved as soon as they get into the open air; or, if they have any remaining uneasiness, a little water and vinegar, or lemonade, drunk hot, affords them relief. But when they are so far poisoned, as to have lost their feeling and understanding, the following means must be used for their recovery:

The patient should be exposed to a very pure, fresh, and open air; and volatile salts, or other stimulating substances, held to his nose. He should next be bled in the arm, or if that does not succeed, in the neck. His legs ought to be put into warm water, and well rubbed. As soon as he can swallow, some lemonade, or water and vinegar, with the addition of a little nitre, may be given him.

Nor are sharp clysters by any means to be neglected; these may be made, by adding to the common clyster, syrup of buckthorn and tincture of senna, of each two ounces; or, in their stead, half an ounce of Venice turpentine dissolved in the yolk of an egg. Should these things not be at hand, two or three large spoonfuls of common salt may be put into the clyster. The same means, if necessary, which were recommended in the former part of this chapter, may be used to restore the circulation, warmth, &c.

Mr Tossach, surgeon at Alloa, relates the case of a man suffocated by the steam of burning coal, whom he recovered by blowing his breath into the patient's

EFFECTS OF EXTREME COLD.

uth, bleeding him in the arm, and causing him to be I rubbed and tossed about. And Dr Frewen of Sus-, mentions the case of a young man who was stupified the smoke of sea-coal, but was recovered by being mged into cold water, and afterwards laid in a warm

The practice of plunging persons suffocated by noxious cours in cold water, would seem to be supported by the mmon experiment of suffocating dogs in the grotto del ii, and afterwards recovering them by throwing them the neighbouring lake.

EFFECTS OF EXTREME COLD.

WHEN cold is extremely severe, and a person is exed to it for a long time, it proves mortal, in conseince of its stopping the circulation in the extremities, forcing too great a proportion of blood towards the in; so that the patient dies of a kind of apoplexy, preted by great sleepiness. The traveller, in this situation, o finds himself begin to grow drowsy, should redouble refforts to extricate himself from the imminent danger is exposed to. This sleep, which he might consider ssome alleviation of his sufferings, would, if indulged, we his last.

Such violent effects of cold are happily not very comm in this country; it frequently happens, however, that hands or feet of travellers are so benumbed or frozen, to be in danger of a mortification, if proper means are used to prevent it. The chief danger in this situation the sudden application of heat. It is very comm, when the hands or feet are pinched with cold, to d them to the fire; yet reason and observation shew it this is a most dangerous and imprudent practice.

Every peasant knows, if frozen meat, fruits, or roots any kind, be brought near the fire, or put into warm cer, they will be destroyed, by rottenness, or a kind of rtification; and that the only way to recover them, is mmerse them for some time in very cold water. The oe observation holds with regard to animals in this couton.

When the hands or feet are greatly benumbed with cold, they ought either to be immersed in cold water, or rubbed with snow, till they recover their natural warmth and sensibility : After which the person may be removed into an apartment a little warmer, and may drink some cups of tea, or an infusion of elder flowers sweetened with honey. Every person must have observed, when his hands were even but slightly affected with cold, that the best way to warm them was by washing them in cold water, and continuing to rub them well for some time.

When a person has been so long exposed to the cold, that all appearances of life are gone, it will be necessary to rub him all over with snow or cold water; or, what will answer better, if it can be obtained, to immerse him in a bath of the very coldest water. There is the greatest encouragement to persist in the use of these means, as we are assured that persons who had remained in the snow, or had been exposed to the freezing air during five or six successive days, and who had discovered no marks of life for several hours, have nevertheless been revived.

I have always thought, that the whitloes, kibes, chilblains, and other inflammations of the extremities, which are so common among the peasants in the cold season, were chiefly occasioned by their sudden transitions from cold to heat. After they have been exposed to an extreme degree of cold, they immediately apply their hands and feet to the fire, or, if they have occasion, plunge them into warm water, by which means, if a mortification does not happen, an inflammation seldom fails to ensue. Most of the ill consequences from this quarter might be easily avoided, by only observing the precautions mentioned above.

EFFECTS OF EXTREME HEAT.

THE effects of extreme heat, though not so common in this country, are no less fatal, and much more sudden than those of cold. In hot countries people frequently drop down dead in the streets, exhausted with heat and fatigue. In this case, if any warm cordial can be poured into the mouth it ought to be done. If this cannot be ef-

OF FAINTING FITS, &c.

etted, they may be thrown up in form of a clyster. Votile spirits, and other things of a stimulating nature, ny be applied to the skin, which should be well rubbed th coarse cloths, whipped with nettles, or other stimuing things. Some of the ancient physicians are said to we restored to life persons apparently dead, by beating im with rods.

C'HAP. LIV.

"FAINTING FITS, AND OTHER CASES WHICH REQUIRE IMMEDIATE ASSISTANCE.

TRONG and healthy persons, who abound with blood, are often seized with sudden fainting fits, after violent arcise, drinking freely of warm or strong liquors, exture to great heat, intense application to study, or the et.

In such cases the patient should be made to smell to me vinegar. His temples, forehead, and wrists ought the same time to be bathed with vinegar mixed with an al quantity of warm water; and two or three spoonof vinegar, with four or five times as much water, w, if he can swallow, be poured into his mouth.

If the fainting proves obstinate, or degenerates into a cope, that is, an abolition of feeling and understanding, patient must be bled. After the bleeding, a clyster be proper, and then he should be kept easy and et, only giving him every half hour a cup or two of infusion of any mild vegetable, with the addition of a te sugar and vinegar.

When swoonings, which arise from this cause, occur uently in the same person, he should, in order to upe them, confine himself to a light diet, consisting efly of bread, fruits, and other vegetables. His drink to be water or small beer, and he should sleep but llerately, and take much exercise.

But fainting fits proceed much oftener from a defect, in an excess of blood. Hence they are very ready to pen after great evacuations of any kind, obstinate

532 OF FAINTING FITS, Ge. WHICH REQUIRE

watching, want of appetite, or such like. In these an almost directly opposite course to that mentioned above must be pursued.

The patient should be laid in bed, with his head low, and being covered, should have his legs, thighs, arms, and his whole body rubbed strongly with hot flannels. Hungary water, volatile salts, or strong smelling herbs, as rue, mint, or rosemary, may be held to his nose. His mouth may be wet with a little rum or brandy ; and, if he can swallow, some hot wine, mixed with sugar and cinnamon, which is an excellent cordial, may be poured into his mouth. A compress of flannel dipt in hot wine or brandy must be applied to the pit of his stomach, and warm bricks, or bottles filled with hot water, laid to the feet.

As soon as the patient is recovered a little, he should take some strong soup or broth, or a little bread or biscuit soaked in hot-spiced wine. To prevent the return of the fits, he ought to take often, but in small quantities some light, yet strengthening nourishment, as panado made with soup instead of water, new laid eggs, lightly poached, chocolate, light roast meats, jellies, and such like.

Those fainting fits, which are the effect of bleeding, o of the violent operation of purges, belong to this class Such as happen after artificial bleeding are seldom danger ous, generally terminating as soon as the patient is laid upon the bed; indeed persons subject to this kind should always be bled lying, in order to prevent it. Should th fainting however continue longer than usual, volatile spi rits may be held to the nose, and rubbed on the tem ples, &c.

When fainting is the effect of too strong or acrid purge or vomits, the patient must be treated in all respects as he had taken poison. He should be made to drink plent fully of milk, warm water, and oil, barley-water, or suc like; emollient clysters will likewise be proper, and th patient's strength should afterwards be recruited, by givin him generous cordials, and anodyne medicines.

Faintings are often occasioned by indigestion. The may either proceed from the quantity or quality of the food. When the former of these is the cause, the cur

IMMEDIATE ASSISTANCE.

Il be best performed by vomiting, which may be prooted by causing the patient to drink a weak infusion of momile flowers, *carduus benedictus*, or the like. When e disorder proceeds from the nature of the food, the paent, as in the case of weakness, must be revived by rong smells, &c. after which he should be made to swalw a large quantity of light warm fluid, which may serve drown, as it were, the offending matter, to soften its rimony, and either to effect a discharge of it by vomitg, or force it down into the intestines.

Even disagreeable smells will sometimes occasion swoonegs, especially in people of weak nerves. When this uppens, the patient should be carried into the open air, uve stimulating things held to his nose, and those subances which are disagreeable to him ought immediately be removed. But we have already taken notice of woonings which arise from nervous disorders, and shall herefore say no more upon that head.

Fainting fits often happen in the progress of diseases. In the beginning of putrid diseases they generally denote an appression at stomach, or a mass of corrupted humours, and they cease after evacuations by vomit or stool. When hey occur at the beginning of malignant fevers, they indinet great danger. In each of these cases, vinegar used both externally and internally is the best remedy during he paroxysm, and plenty of lemon-juice after it. Swoonigs which happen in diseases accompanied with great eincuations, must be treated like these which are owing to ceakness, and the evacuations ought to be restrained. When they happen towards the end of a violent fit of an itermitting fever, or at that of each exacerbation of a continual fever, the patient must be supported by small raughts of wine and water.

Delicate and hysteric women are very liable to swoonog or fainting fits after delivery. These might be often revented by generous cordials, and the admission of fresh ir. When they are occasioned by excessive flooding, it ught by all means to be restrained. They are generally ne effect of mere weakness or exhaustion. Dr Englenan relates the case of a woman " in childbed, who, afer being happily delivered, suddenly fainted, and lay upwards of a quarter of an hour apparently dead. A physician was sent for; her own maid, in the mean while, being out of patience at his delay, attempted to assist her herself, and extending herself upon her mistress, applied her mouth to her's, blew in as much breath as she possibly could, and in a very short time the exhausted woman awaked as out of a profound sleep; when proper things being given her, she soon recovered.

"The maid being asked how she came to think of this expedient, said she had seen it practised at Altenburgh, by midwives, upon children with the happiest effect."

We mention this case chiefly that other midwives may be induced to follow so laudable an example. Many children are born without any signs of life, and others expire soon after the birth, who might, without all doubt, by proper care, be restored to life.

From whatever cause fainting fits proceed, fresh air is always of the greatest importance to the patient. By not attending to this circumstance, people often kill their friends while they are endeavouring to save them. Alarm ed at the patient's situation, they call in a crowd of peo ple to his assistance, or perhaps to witness his exit, whose breathing exhausts the air, and increases the danger There is not the least doubt but this practice, which i very common among the lower sort of people, often prove fatal, especially to the delicate, and such persons as fall into fainting fits from mere exhaustion, or the violence of some disease. No more persons ought ever to be admitted inte the room where a patient lies in a swoon, than are abso lutely necessary for his assistance, and the windows of th apartment should always be opened, at least as far as to ad mit a stream of fresh air.

Persons subject to frequent swoonings, or fainting fits should neglect no means to remove the cause of them as their consequences are always injurious to the constitution. Every fainting fit leaves the person in dejection and weakness; the secretions are thereby suspended, the humours disposed to stagnation, coagulations and obstructions are formed, and, if the motion of the blood be to tally intercepted, or very considerably checked, *polypuse* are sometimes formed in the heart or larger vessels. Th

OF INTOXICATION.

w kind of swoonings not to be dreaded are those which metimes mark the *crisis* in fevers; yet even these ought, coon as possible, to be removed.

OF INTOXICATION.

HE effects of intoxication are often fatal. No kind moison kills more certainly than an over-dose of ardent its. Sometimes, by destroying the nervous energy, 77 put an end to life at once; but in general their ef-58 are more slow, and in many respects similar to those pium. Other kinds of intoxicating liquors may prove 11, when taken to excess, as well as ardent spirits; but 74 may generally be discharged by vomiting, which 11bt always to be excited when the stomach is over-15g with liquor.

More of those unhappy persons, who die intoxicated, their lives from an inability to conduct themselves in from the destructive quality of the liquor. Unable walk, they tumble down, and lie in some awkward ture, which obstructs the circulation or breathing, often continue in this situation till they die. No mken person should be left by himself, till his clothes ee been loosened, and his body laid in such a posture most favourable for continuing the vital motions, disrging the contents of the stomach, &c. The best posfor discharging the contents of the stomach is to lay person upon his belly; when asleep he may be laid this side, with his head a little raised, and particular must be taken that his neck be no way bent, twisted, tave any thing too tight about it.

The excessive degree of thirst occasioned by drinking ng liquors, often induces people to quench it by takwhat is hurtful. I have known fatal consequences in from drinking freely of milk after a debauch of wine your punch; these acid liquors, together with the heat the stomach, having coagulated the milk in such a mer that it could never be digested. The safest way r a debauch is water with a toast, tea, infusions of n, sage, barley-water, and such like. If the person its to vomit, he may drink a weak infusion of camomile-flowers, or luke-warm water and oil; but in this condition vomiting may generally be excited by only tickling the throat with the finger or a feather.

Instead of giving a detail of all the different symptoms of intoxication which indicate danger, and proposing a general plan of treatment for persons in this situation, I shall briefly relate the history of a case which lately fell under my own observation, wherein most of those symptoms usually reckoned dangerous, occurred, and where the treatment was successful.

A young man, about fifteen years of age, had, for a hire, drunk ten glasses of strong brandy. He soon after fell fast asleep, and continued in that situation for near twelve hours, till at length his uneasy manner of breathing, the coldness of the extremities, and other threatening symptoms, alarmed his friends, and made them send for me. I found him still sleeping, his countenance ghast ly, and his skin covered with a cold clammy sweat. Al most the only signs of life remaining were, a deep labo rious breathing, and a convulsive motion or agitation o his bowels.

I tried to rouse him, but in vain, by pinching, shak ing, applying volatile spirits, and other stimulating thing to his nose, &c. A few ounces of blood were likewis taken from his arm, and a mixture of vinegar and wate was poured into his mouth ; but, as he could not swallow very little of this got into his stomach, None of thes things having the least effect, and the danger seemin to increase, I ordered his legs to be put into warm wate and a sharp clyster to be immediately administered. Th gave him a stool, and was the first thing that relieved him It was then afterwards repeated with the same happy effec and seemed to be the chief cause of his recovery. He the began to shew some signs of life, took drink when it w offered him, and came gradually to his senses. He cont nued, however, for several days weak and feverish, ar complained much of a soreness in his bowels, which gr dually went off, by means of a slender diet, and cool muc laginous liquors.

This young man would probably have been suffered die, without any assistance being called, had not a neig

OF SUFFOCATION AND STRANGLING. 537

our, a few days before, who had been advised to drink mottle of spirits to cure him of an ague, expired under ry similar circumstances.

OF SUFFOCATION AND STRANGLING.

THESE may sometimes proceed from an infarction of lungs, produced by viscid clammy humours, or a smodic affection of the nerves of that organ. Perns who feed grossly, and abound in rich blood, are ry liable to suffocating fits from the former of these cau-. Such ought, as soon as they are attacked, to be bled, receive an emollient clyster, and to take frequently a p of diluting liquor with a little nitre in it. They should rewise receive the steams of hot vinegar into their lungs breathing.

Nervous and asthmatic persons are most subject to spasodic affections of the lungs. In this case the patient's is should be immersed in warm water, and the steams winegar applied as above. Warm diluting liquor should cewise be drunk; to a cup of which a tea-spoonful of the rygoric elixir may occasionally be added. Burnt paper, of thers, or leather, may be held to the patient's nose, dl fresh air should be freely admitted to him.

Infants are often suffocated by the carelessness or inatntion of their nurses *. An infant when in bed should ways be laid so, that it cannot tumble down with its ad under the bed-clothes; and when in a cradle, its the ought never to be covered. A small degree of atntion to these two simple rules would save the lives of any infants, and prevent others from being rendered ak and sickly all their days by the injuries done to their ags.

Instead of laying down a plan for the recovery of infants to are suffocated, or overlaid, as it is termed, by their

These accidents are not always the effects of carelessness. I have we an infant overlaid, by its mother being seized in the night with hysteric fit. This ought to serve as a caution against employing teric women as nurses; and should likewise teach such women never ay an infant in the same bed with themselves, but in a small adjacent

538 OF SUFFOCATION AND STRANGLING.

nurses, I shall give the history of a case related by Monsieur Janin, of the Royal College of Surgery at Paris, as it was attended with success, and contains almost every thing that can be done on such occasions.

A nurse having had the misfortune to over-lay a child, he was called in, and found the infant without any signs of life; no pulsation in the arteries, no respiration, the face livid, the eyes open, dull, and tarnished, the nose full of snivel, the mouth gaping, in short, it was almost cold. Whilst some linen cloths and a parcel of ashes, were warming, he had the boy unswathed, and laid him in a warm bed, and on the right side. He then was rubbed all over with fine linen, for fear of fretting his tender and delicate skin. As soon as the ashes had received their due degree of heat, Mr Janin buried him in them, except the face, placed him on the side opposite to that on which he had been at first laid, and covered him with a blanket. He had a bottle of eau de luce in his pocket, which he presented to his nose from time to time; and between whiles some puffs of tobacco were blown up his nostrils: to these succeeded the blowing into his mouth, and squeezing tight his nose. Animal heat began thus to be excited gradually; the pulsations of the temporal artery were soon felt, the breathing became more frequent and free, and the eyes closed and opened alternately. At length the child fetched some cries expressive of his want of the breast, which being applied to his mouth, he catched at it with avidity, and sucked a if nothing had happened to him. Though the pulsation of the arteries were by this time very well re-established and it was hot weather, yet Mr Junin thought it advisable to leave his little patient three quarters of an hour longe under the ashes. He was afterwards taken out, cleaned and dressed as usual; to which a gentle sleep succeeded and he continued perfectly well.

Mr Janin mentions likewise an example of a youn, man who had hanged himself through despair, to whon he administered help as effectually as in the precedin, case.

Mr Glover, Surgeon in' Doctors Commons, London relates the case of a person who was restored to life after

15.545 . 1.

OF SUFFOCATION AND STRANGLING.

539

enty-nine minutes hanging, and continued in good alth for many years after.

The principle means used to restore this man to life re, opening the temporal artery and the external jugu-; rubbing the back, mouth, and neck, with a quantiof volatile spirits and oil; administering the tobacco ster by means of lighted pipes, and strong frictions of legs and arms. This course had been continued for but four hours, when an incision was made into the id-pipe, and air blown strongly through a canula into lungs. About twenty minutes after this, the blood the artery began to run down the face, and a slow se was just perceptible at the wrist. The frictions re continued for some time longer; his pulse became re frequent, and his mouth and nose being irritated with rit of sal-ammoniac, he opened his eyes. Warm cordials we then administered to him, and in two days he was well as to be able to walk eight miles.

These cases are sufficient to shew what may be done the recovery of those unhappy persons who strangle mselves in a fit of despair.

IF PERSONS WHO EXPIRE IN CONVULSION FITS.

CONVULSION fits often constitute the last scene of ae or chronic disorders. When this is the case, there remain but small hopes of the patient's recovery after biring in a fit. But when a person, who appears to in perfect health, is suddenly seized with a convulin fit, and seems to expire; some attempts ought alis to be made to restore him to life. Infants are most ble to convulsions, and are often carried off very sudly by one or more fits about the time of teething. ere are many well authenticated accounts of infants ing been restored to life, after they had to all appeare expired in convulsions; but we shall only relate the foling instance mentioned by Dr Johnson in his pamphon the practicability of recovering persons visibly dead. n the parish of St Clemens in Colchester, a child of months old lying upon its mother's lap, having had breast, was seized with a strong convulsion fit, which

lasted so long, and ended with so total a privation of motion in the body, lungs, and pulse, that it was deemed absolutey dead. It was accordingly stripped, laid out, the passing-bell ordered to be tolled, and a coffin to be made; but a neighbouring gentlewoman who used to admire the child, hearing of its sudden death, hastened to the house, and upon examining the child found it not cold, its joints limber, and fancied that a glass she held to its mouth and nose was a little damped with the breath ; upon which she took the child in her lap, sat down before the fire, rubbed it, and kept it in gentle agitation. In a quarter of an hour she felt the heart begin to beat faintly; she then put a little of the mother's milk into its mouth, continued to rub its palms and soles, found the child begin to move, and the milk was swallowed; and in another quarter of an hour she had the satisfaction of restoring to its disconsolate mother the babe quite recovered, eager to lay hold of the breast, and able to suck again. The child throve, had no more fits, is grown up, and at present alive.

These means, which are certainly in the power of every person, were sufficient to restore to life an infant to all appearance dead, and who, in all probability, but for the use of these simple endeavours, would have remained so. There are, however, many other things which might be done in case the above should not succeed; as rubbing the body with strong spirits, covering it with warm ashes or salt, blowing air into the lungs, throwing up warm stimulating clysters, or the smoke of tobacco, into the intestines, and such like.

When children are dead born, or expire soon after the birth, the same means ought to be used for their recovery, as if they had expired in circumstances similar to those mentioned above.

These directions may likewise be extended to adults, attention being always paid to the age and other circumstances of the patient.

The foregoing cases and observations afford sufficient proof of the success which may attend the endeavours of persons totally ignorant of medicine, in assisting those who are suddenly deprived of life by any accident or disease. any facts of a similar nature might be adduced, were it cessary; but these, it is hoped, will be sufficient to call the attention of the public, and to excite the humane d benevolent to exert their utmost endeavours for the reservation of their fellow-men.

The society for the recovery of drowned persons, institutat Amsterdam in the year 1767, had the satisfaction find that not fewer than 150 persons in the space of ar years had been saved by the means pointed out by tem, many of whom owed their preservation to peasants id people of no medical knowledge. But the means uswith so much efficacy in recovering drowned persons e, with equal success, applicable to a number of cases here the powers of life seem in reality to be only suspend-, and to remain capable of renewing all their functions, being put into motion again. It is shocking to reflect, at for want of this consideration many persons have been mmitted to the grave, in whom the principles of life ight have been revived.

The cases wherein such endeavours are most likely to attended with success, are all those called sudden taths from an invisible cause, as apoplexies, hysterics, intings, and many other disorders wherein persons in a coment sink down and expire. The various casualities in thich they may be tried, are, suffocations from the sulmerous damps of mines, coal pits, &-c.: the unwholeme air of long unopened wells or caverns; the noxious apours arising from fermenting liquors: the steams of urning charcoal; sulpherous mineral acids; arsenical eftivia, &-c.

The various accidents of drowning, strangling, and aptrent deaths, by blows, falls, hunger, cold, &c. likeuse furnish opportunities of trying such endeavours. hose perhaps who to appearance are killed by lightning, by any violent agitation of the passions, as fear, joy, rprise, and such like, might also be frequently recoverl by the use of proper means, as blowing strongly into the ir lungs, &c.

The means to be used for the recovery of persons iddenly deprived of life are nearly the same in all cases; ney are practicable by every one who happens to be present at the accident, and require no great expence, and less skill. The great aim is to restore the warmth and vital motions. This may in general be attempted by means of heat, frictions, bleeding, blowing air into the lungs, administering clyters and generous cordials. These must be varied according to circumstances. Common sense, and the situation of the patient, will suggest the proper manner of conducting them. Above all we would recommend *perseverance*. People ought never to despair on account of discouraging circumstances, or to leave off their endeavours as long as there is the least hope of success. Where much good and no hurt can be done, no one ought to grudge his labour.

It were greatly to be wished, that an institution, similar to that of Amsterdam, was established, upon a more extensive plan in Great Britain; and that a reward was allowed to every one who should be instrumental in restoring to life a person seemingly dead *. Men will do much for fame, but still more for money. Should no profit, however, be annexed to those benevolent offices, the heart-felt pleasure which a good man must enjoy, on reflecting that he has been the happy instrument of saving one of his fellow-creatures from an untimely grave, is itself a sufficient reward.

CHAP. LV.

CAUTIONS CONCERNING COLD BATHING, AND DRINKING THE MINERAL WATERS.

A S it is now fashionable for persons of all ranks to plunge into the sea, and drink the mineral waters, I was desirous of rendering this work still more extensively

* The Anthor is happy to observe, that, since the first publication of this work, several societies have been instituted in Britain with the same benevolent intention as that of Amsterdam, and that their endeavours have proved no less successful. He is likewise happy to observe, that premiums have been awarded to those who have been active in their endeavours to restore to life persons who had been drowned or suddenly deprived of life by any accident. How much is this superior

eful, by the addition of some practical remarks on these tive and useful medicines. Finding it impossible to ing these observations within so narrow a compass as not swell the book, already too large, into an enormous e, I resolved to confine myself to a few hints or cauns; which may be of service to persons who bathe, or ink the mineral waters, without being able to put themwes under the care of a physician.

No part of the practice of medicine is of greater impornce, or merits more the attention of the physician, as my lives are lost, and numbers ruin their health, by Id bathing, and an imprudent use of the mineral wars. On some future occasion I may probably resume is subject, as I know not any work that contains a suflient number of practical observations to regulate the pant's conduct in the use of these active and important edicines.

We have indeed many books on the mineral waters, d some of them are written with much ingenuity; but ey are chiefly employed in ascertaining the contents of e: waters by chymical analysis. This no doubt has its e, but it is by no means of such importance as some ny imagine. A man may know the chymical analysis all the articles in the materia medica, without being le properly to apply any one of them in the cure of dissees. One page of practical observations is worth a nole volume of chymical analysis. But where are such sservations to be met with? Few physicians are in a siution to make them, and fewer still are qualified for ch a task. It can only be accomplished by practitioners to reside at the fountains, and who, possessing minds perior to local prejudices, are capable of distinguishing eases with accuracy, and of forming a sound judgment pecting the genuine effects of medicines.

Without a proper discrimination with regard to the disse and the constitution of the patient, the most powermedicine is more likely to do harm than good. Every

the superstitious institution, which allows any man a premium who ags a dead person out of the water, so that he may receive a Christian ial; but allows nothing to the person who brings him out alive, or who overs him after he has been to all appearance dead. one knows that the same physician who, by cold bathing, cured Augustus, by an imprudent use of the same medicine killed his heir. This induced the Roman senate to make laws for regulating the baths, and preventing the numerous evils which arose from an imprudent and promiscuous use of those elegant and fashionable pieces of luxury. But as no such laws exist in this country, every one does that which is right in his own eyes, and of course many must do wrong.

People are apt to imagine that the simple element of water can do no hurt, and that they may plunge into it at any time with impunity. In this, however, they are much mistaken. I have known apoplexies occasioned by going into the cold bath, fevers excited by staying to long in it, and other maladies so much aggravated by its continued use, that they could never be wholly eradicated. Nor are examples wanting, either in ancient or modern times, of the baneful consequences which have ariser also from an injudicious application of the warm bath but as warm baths are not so common in this country, and are seldom used but under the direction of a physician, shall not enlarge on that part of the subject.

Immersion in cold water is a custom which lays claim to the most remote antiquity; indeed it must have been coeval with man himself. The necessity of water for the purpose of cleanliness, and the pleasure arising from it application to the body in hot countries, must very early have recommended it to the human species. Even the example of other animals was sufficient to give the hint to man. By instinct many of them are led to apply cold water in this manner; and some, when deprived of its use have been known to languish, and even to die. Bu whether the practice of cold bathing arose from necessity reasoning, or imitation, is an enquiry of no importance our business is to point out the advantages which may be derived from it, and to guard people against an impropeuse of it.

The cold bath recommends itself in a variety of case and is peculiarly beneficial to the inhabitants of populot cities, who indulge in idleness, and lead sedentary live In persons of this description the action of the solids is a

ys too weak, which induces a languid circulation, a inde indigested mass of humours, and obstructions in capillary vessels and glandular system. Cold water, in its gravity as well as its tonic power, is well calcued either to obviate or remove these symptoms. It acerates the motion of the blood, promotes the different retions, and gives permanent vigour to the solids. But these important purposes will be more essentially anered by the application of *salt water*. This ought not ly to be preferred on account of its superior gravity, it likewise for its greater power of stimulating the skin, nich promotes the perspiration, and prevents the patient om catching cold.

It is necessary, however, to observe, that cold bathing more likely to prevent, than to remove obstructions of e glandular or lymphatic system. Indeed, when these we arrived at a certain pitch, they are not to be removby any means. In this case the cold bath will only agavate the symptoms, and hurry the unhappy patient inan untimely grave. It is therefore of the utmost imtrance, previous to the patient's entering upon the use the cold bath, to determine whether or not he labours and any obstinate obstructions of the lungs or other visra; and where this is the case, cold bathing ought strict. to be prohibited *.

In what is called a plethoric state, or too great a fuless of the body, it is likewise dangerous to use the cold of the without due preparation. In this case there is great inger of bursting a blood-vessel, or occasioning an inmmation of the brain, or some of the *viscera*. This recaution is the more necessary to citizens, as most of them live full, and are of a gross habit. Yet, what is ery remarkable, these people resort in crowds every sea-

* The late celebrated Dr Smollet has indeed said, that if he were rsuaded he had an ulcer in the lungs, he would jump into the cold ith : but here the Doctor evidently shews more courage than discretion ; d that he was more a man of wit than a physician, every one will low. A nervous asthma, or an atrophy, may be mistaken for a pulonary consumption ; yet, in the two former, the cold bath proves often meficial, though I never knew it so in the latter. Indeed, all the uthisical patients I ever saw, who had tried the cold bath, were evidently art by it.

son to the sea-side, and plunge in the water without the least consideration. No doubt they often escape with impunity, but does this give a sanction to the practice? Persons of this description ought by no means to bathe, unless the body has been previously prepared by suitable evacuations.

Another class of patients, who stand peculiarly in need of the bracing qualities of cold water, is the nervous. This includes a great number of the male, and almost all the female inhabitants of great cities. Yet even those persons ought to be cautious in using the cold bath. Nervous people have often weak bowels, and may, as well as others, be subject to congestions and obstructions of the viscera; and in this case they will not be able to bear the effects of the cold water. For them, therefore, and indeed for all delicate people, the best plan would be to accustom themselves to it by the most pleasing and gentle degrees. They ought to begin with the temperate bath. and gradually use it cooler, till at length the coldest proves quite agreeable. Nature revolts against all great transitions; and those who do violence to her dictates, have often cause to repent of their temerity.

Wherever cold bathing is practised, there ought likewise to be tepid baths for the purpose mentioned above.

Indeed it is the practice of some countries to throw cold water over the patient as soon as he comes out of the warm bath; but though this may not injure a Russian peasant, we dare not recommend it to the inhabitants of this country. The ancient Greeks and Romans, we are told, when covered with sweat and dust, used to plunge into rivers, without receiving the smallest injury. Though they might often escape danger from this imprudent conduct, yet it was certainly contrary to sound reason. I have known many robust men throw away their lives by such an attempt. We would not however advise patients to go into the cold water when the body is chilly; as much exercise, at least, ought to be taken, as many excite a gentle glow all over the body, but by no means so as to overheat it.

To young people, and particularly to children, cold bathing is of the last importance. Their lax fibres render its tonic powers peculiarly proper. It promotes their

547

with, increases their strength *, and prevents a variety diseases incident to childhood. Were infants early acstomed to the cold bath, it would seldom disagree with em; and we should see fewer instances of the scrofula, kets, and other diseases, which prove fatal to many, it make others miserable for life. Sometimes, indeed, ese disorders render infants incapable of bearing the ock of cold water; but this is owing to their not having en early and regularly accustomed to it. It is however to frequent thing; as I have known many fatal consequences result in the daily practice of plunging into rivers, and contiing there too long.

The most proper time of the day for using the cold the is no doubt the morning, or at least before dinner; d the best mode, that of quick immersion. As cold thing has a constant tendency to propel the blood and her humours towards the head, it ought to be a rule altys to wet that part as soon as possible. By due atnation to this circumstance, there is reason to believe, at violent head-achs, and other complaints, which fretently proceed from cold bathing, might be often premted.

The cold bath, when too long continued in, not only casions an excessive flux of humours towards the head, it chills the blood, cramps the muscles, relaxes the irves, and wholly defeats the intention of bathing. ence, by not adverting to this circumstance, expert immers are often injured, and sometimes even lose their res. All the beneficial purposes of cold bathing are anered by one immersion at a time; and the patient ought be rubbed dry the moment he comes out of the water, id should continue to take exercise for some time after. When cold bathing occasions chillness, loss of appetite, itlessness, pain of the breast or bowels, a prostration of

* The celebrated Galen says, that immersion in cold water is fit only the young of lions and bears; and recommends warm bathing, as concive to the growth and strength of infants. How egregiously do the catest men err whenever they lose sight of facts, and substitute reasoning physic, in place of observation and experience ! strength, or violent head-achs, it ought to be discontinued.

Though these hints are by no means intended to point out all the cases where cold bathing may be hurtful, nor to illustrate its extensive utility as a medicine; yet it is hoped they may serve to guard people against some of those errors into which, from mere inattention, they are apt to fall, and thereby not only endanger their own lives, but bring an excellent medicine into disrepute.

OF DRINKING THE MINERAL WATERS.

THE internal use of water, as a medicine, is no less an object of the physician's attention than the external. Pure elementary water is indeed the most inoffensive of all liquors, and constitutes a principal part of the food of every animal. But this element is often impregnated with substances of a very active and penetrating nature; and of such an insidious quality, that, while they promote certain secretions, and even alleviate some disagreeable symptoms, they weaken the powers of life, undermine the constitution, and lay the foundation of worse diseases than those which they were employed to remove. Of this every practitioner must have seen instances; and physicians of eminence have more than once declared that they have known more diseases occasioned than removed by the use of mineral This doubtless has proceeded from the abuse of waters. these powerful medicines, which evinces the necessity of using them with caution.

By examining the contents of the mineral waters which are most used in this country, we shall be enabled to form an idea of the danger which may arise from an improper application of them either externally or internally, though it is to the latter of these that the present observations are chiefly confined.

The waters most in use for medical purposes in Britain, are those impregnated with salts, sulphur, iron, and mephitic air, either separately, or variously combined. Of these, the most powerful is the saline sulpherous water of Harrowgate, of which I have had more occasion to observe the pernicious consequences, when improperly used,

in of any other. To this, therefore, the following rerks will more immediately relate, though they will be ind applicable to all the purging waters in the kingdom ich are strong enough to merit attention *.

The errors which so often defeat the intention of drinkthe purgative mineral waters, and which so frequently we injurious to the patient, proceed from the manof using them, the quantity taken, the regimen pured, or using them in cases where they are not proper.

A very hurtful prejudice still prevails in this country, it all diseases must be cured by medicines taken into stomach, and that the more violently these medicines erate, they are the more likely to have the desired efit. This opinion has proved fatal to thousands, and II, in all probability, destroy many more before it can wholly eradicated. Purging is often useful in acute teases, and in chronical cases may pave the way for the eration of other medicines; but it will seldom perform ture; and by exhausting the strength of the patient, will ten leave him in a worse condition than it found him. nat this is frequently the case with regard to the more tive mineral waters, every person conversant in these utters will readily allow.

Strong stimulants applied to the stomach and bowels a length of time, must tend to weaken and destroy eir energy; and what stimulants are more active than it and sulphur, especially when these substances are inmately combined, and carried through the system by e penetrating medium of water? Those bowels must be cong indeed, which can withstand the daily operation of the active principles for months together, and not be inred. This however is the plan pursued by most of

The greatest class of mineral waters in this country is the chalyte. In many parts of Britain these are to be found in almost every d; but those chiefly in use, for medical purposes, are the purging lybeates, as the waters of Scarborough, Cheltenham, Toerp Arch, vil Holt, &c. Of those which do not purge, the waters of Tunlge stand in the highest repute. The saline purging waters, as se of Acton, Epsom, Kilburn, &c. are also in very general esteem ; the fountains most frequented by the sick in this country, are those which the minerals impart a certain degree of heat, as Bath, Bristol, xton, &c. those who drink the purging mineral waters, and whose circumstances will permit them to continue long enough at those fashionable places of resort.

Many people imagine that every thing depends on the quantity of water taken, and that the more they drink they will the sooner get well. This is an egregious error; for, while the unhappy patient thinks he is by this means eradicating his disorder, he is often in fact undermining the powers of life, and ruining his constitution. Indeed nothing can do this so effectually as weakening the powers of digestion by the improper application of strong stimulants. The very essence of health depends on the digestive organs performing their due functions, and the most tedious maladies are all connected with indigestion.

Drinking the water in too great quantity, not only injures the bowels and occasions indigestion, but generally defeats the intention for which it is taken. The diseases for the cure of which mineral waters are chiefly celebrated, are mostly of the chronic kind; and it is well known that such diseases can only be cured by the slow operation of alteratives, or such medicines as act by inducing a gradual change in the habit. This requires length of time, and never can be effected by medicines which run off by stool, and operate chiefly on the first passages.

Those who wish for the cure of any obstinate malady from the mineral waters, ought to take them in such a manner as hardly to produce any effect whatever on the bowels. With this view a half-pint glass may be drunk at bed-time*, and the same quantity an hour before breakfast, dinner, and supper. The dose, however, must vary according to circumstances. Even the quantity mentioned above will purge some persons, while others will drink twice as much without being in the least moved by it. Its operation on the bowels is the only stand-

* When I speak of drinking a glass of the water over-night, I must beg leave to caution those who follow this plan against eating heavy suppers. The late D: Daultry of York, who was the first that brought the Harrowgate waters into repute, used to advise his patients to drink a glass before they went to bed; the consequence of which was, that having eat a flesh supper, and the water operating in the night, they were often tormented with gripes, and obliged to call for medical assistance.

DRINKING MINERAL WATERS.

for using the water as alterative. No more ought to taken than barely to move the body; nor is it always ssary to carry it this length, provided the water goes by the other emunctories, and does not occasion a chilor flatulency in the stomach or bowels. When the ir is intended to purge, the quantity mentioned above be all taken before breakfast.

would not only caution patients who drink the purmineral waters over night to avoid heavy suppers, also from eating heavy meals at any time. The stiits of water, impregnated with salts, seems to create llse appetite. I have seen a delicate person, after king the Harrowgate water of a morning, eat a Ikfast sufficient to have served two ploughmen, devour lentiful dinner of flesh and fish, and, to crown all, such a supper as might have satisfied a hungry porter. this, indeed, the stomach seemed to crave; but this ing had better remain not quite satisfied, than that the nach should be loaded with what exceeds its powers. sstarve patients was never my plan; but I am clearly ppinion, that, in the use of all the purging mineral ars, a light, and rather diluting diet is the most proper; that no person, during such a course, ought to eat to ffull extent to what his appetite craves.

to promote the operation of mineral waters, and to w them through the system, exercise is indispensably essary. This may be taken in any manner that is to agreeable to the patient; but he ought never to carto excess. The best kinds of exercise are those conted with amusement. Every thing that tends to exrate the spirits not only promotes the operation of waters but acts as a medicine. All who resort to mineral waters ought therefore to leave every care be-, to mix with the company, and to make themselves theerful and happy as possible. From this conduct, ted by the free and wholesome air of those fashionaplaces of resort, and also the regular and early hours the are usually kept, the patient often receives more efit than from using the waters.

ut the greatest errors in drinking the purging mineral ers arise from their being used in cases were they are absolutely improper, and adverse to the nature of the disease. When people hear of a wonderful cure having been performed by some mineral water, they immediate. Iy conclude that it will cure every thing, and accordingly swallow it down, when they might as well take poison. Patients ought to be well informed, before they begin to drink the more active kinds of mineral waters, of the propriety of the course, and should never persist in using them when they are found to aggravate the disorder.

In all cases where purging is indicated, the saline mineral waters will be found to fulfil this intention better than any other medicine. Their operation, if taken in proper quantity, is generally mild; and they are neither found to irritate the nerves, nor debilitate the patient so much as the other purgatives.

As a purgative, these waters are chiefly recommended in diseases of the first passages accompanied with, or proceeding from inactivity of the stomach and bowels, acidity, indigestion, vitiated bile, worms, putrid sordes, the piles, and jaundice. In most cases of this kind they are the best medicines that can be administered. But when used with this view, it is sufficient to take them twice, or at most three times a-week, so as to move the body three or four times; and it will be proper to continue this course for some weeks.

But the operation of the more active mineral waters is not confined to the bowels. They often promote the discharge of urine, and not infrequently increase the perspiration. This shews that they are capable of penetrating into every part of the body, and of stimulating the whole system. Hence arises their efficacy in removing the most obstinate of all disorders, obstructions of the glandular and lymphatic system. Under this class is comprehended the scrofula, or King's Evil, indolent tumours, obstructions of the liver, spleen, kidnies, and mesentering lands. When these great purposes are to be effected the waters must be used in the gradual manner mentioned above, and persisted in for a length of time. It will be proper, however, now and then to discontinue their use for a few days.

The next great class of diseases where mineral water

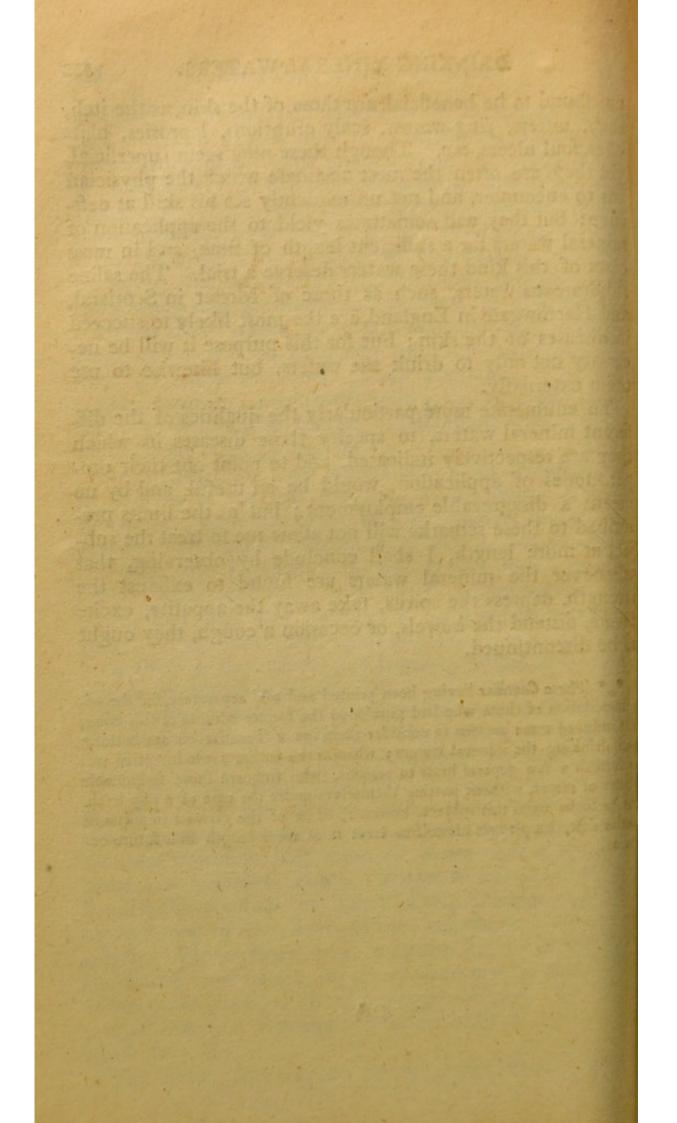
DRINKING MINERAL WATERS.

found to be beneficial, are those of the skin, as the itch, b, tetters, ring-worms, scaly eruptions, leprosies, blotes, foul ulcers, &c. Though these may seem superficial, they are often the most obstinate which the physician to encounter, and not unfrequently set his skill at defite: but they will sometimes yield to the application of meral waters for a sufficient length of time, and in most es of this kind these waters deserve a trial. The saline phureous waters, such as those of Moffat in Scotland, I Harrowgate in England, are the most likely to succeed diseases of the skin; but for this purpose it will be nesary not only to drink the waters, but likewise to use m externally.

To enumerate more particularly the qualities of the difint mineral waters, to specify those diseases in which w are respectively indicated, and to point out their promodes of application, would be an useful, and by no ins a disagreeable employment; but as the limits prebed to these remarks will not allow me to treat the subat more length, I shall conclude by observing, that inever the mineral waters are found to exhaust the mgth, depress the spirits, take away the appetite, excite ers, distend the bowels, or occasion a cough, they ought te discontinued.

** These *Cautions* having been printed and sold separately, for the acmodation of those who had purchased the former editions of this book, induced some persons to consider them as a Treatise on sea-bathing dirinking the mineral waters; whereas the author's sole intention was mainsh a few general hints to persons, who frequent those fashionable ss of resort, without putting themselves under the care of a physician. e: looks upon this subject, however, to be of the greatest importance e: sick, he pledges himself to treat it at more length on a future oc-

4 A



APPENDIX:

CONTAINING

List of Simples and of such Medicinal Preparations as ought to be kept in Readiness for private Practice :

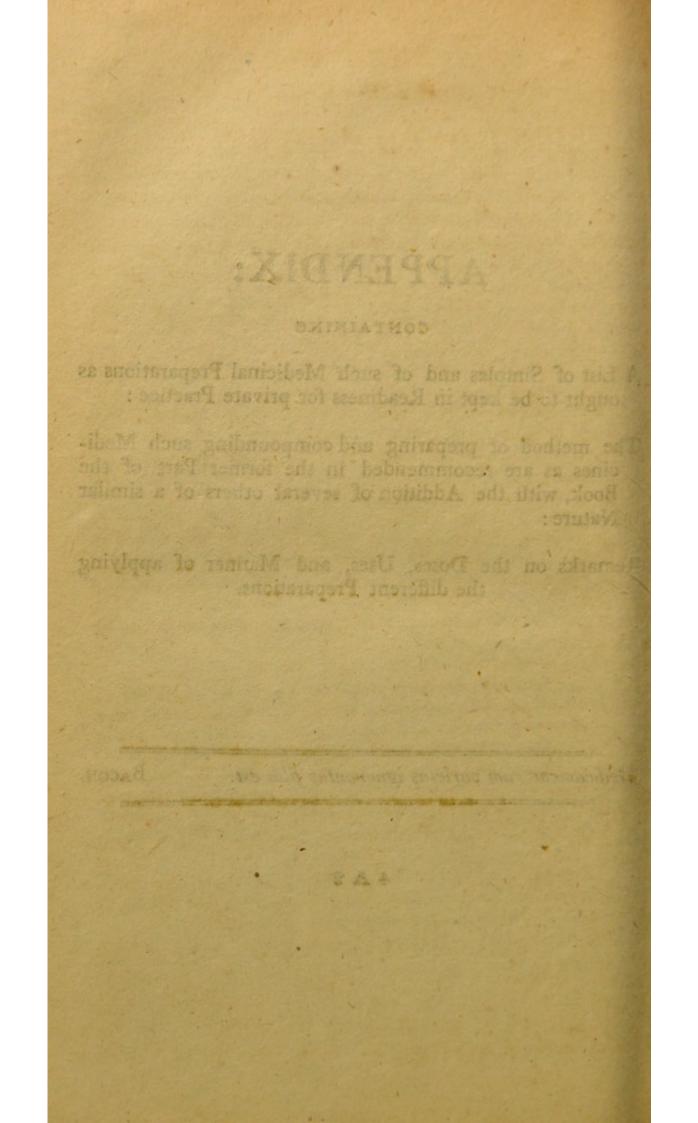
me method of preparing and compounding such Mediccines as are recommended in the former Part of the Book, with the Addition of several others of a similar Nature:

emarks on the Doses, Uses, and Manner of applying the different Preparations.

edicamentorum varietas ignorantiæ filia est.

BACON.

4 A 2



NORANCE and superfition have attributed extraordinary medical virtues to almost every production of nature. That such trues were often imaginary, time and experience has fufficiently wn. Physicians, however, from a veneration for antiquity, still hain in their lists of medicine many things which owe their reputaan entirely to the superfition and credulity of our ancessors.

The inftruments of medicine will always be multiplied, in prortion to men's ignorance of the nature and cause of difeafes: cen thefe are fufficiently underftood, the method of cure will be ple and obvious.

Ignorance of the real nature and permanent properties of the fubftances employed in the cure of difeafes, is another reafon by they have been fo greatly multiplied. Phyficians thought they all deffect by a number of ingredients, what could not be done any one of them. Hence arofe those amazing farragos which the fo long difgraced the medical art, and which were effected averful in proportion to the number of fimples that entered their imposition.

The great variety of forms into which almost every article of dicine has been manufactured, affords another proof of the imffection of the medical art. A drug, which is perhaps most cacious in the fimplest form in which it can be administered, been nevertheless ferved up in fo many different shapes, that would be induced to think that the whole art of physic lay in libiting medicine under as many different modes as possible.

Different forms of medicine, no doubt, have their use; but they ht never to be wantonly increafed. They are by no means fo effary as is generally imagined. A few grains of powdered rhub, jalap, or ipecacuanha, will actually perform all that can be by the different prepartions of thefe roots, and may alfo be exited in as fafe and agreeable a manner. The fame obfervation is with regard to the Peruvian bark, and many other fimples of cch the preparations are very numerous.

Multiplying the ingredients of a medicine, not only renders it re expensive, but also less certain, both in its dose and opeon. Nor is this all. The compound, when kept, is apt to l, or acquire qualities of a different nature. When a mediis rendered more fafe, efficacious, or agreeable, by the adon of another, they ought, no doubt, to be joined; in all

other cafes, they are better kept asunder. The combination of medicines embaraffes the phyfician, and retards the progrefs of medical knowledge. It is impossible to afcertain the precise effect of any one medicine, as long as it is combined with others, either of a fimilar or diffimilar nature.

In the exhibition of medicine, regard fhould not only be had to fimplicity, but likewife to elegance. Patients feldom reap much benefit from things that are highly difagreeable to their fenfe. To tafte or fmell like a drug, is become a proverb; and to fay truth, there is too much ground for it. Indeed no art can take away the difagreeable tafte and flavour of fome drugs, without entirely deftroying their efficacy: it is poffible, however, to render many medicines lefs difguftful, and others even agreeable; an object highly deferving the attention of all who administer medicine.

The defign of the following pages, is to exhibit fuch a lift of drugs and medicines as may be neceffary for private practice.— They are confiderably more numerous indeed than those recommended in the former part of the Book, but are ftill greatly within the number contained in the most reformed dispensatories.— The fame medicine is feldom exhibited under different forms; and where different medicines answer nearly the fame intention, there is commonly no more than one of them retained. Multiplying forms of medicine for the fame intention tends rather to bewilder than affist the young practitioner, and the experienced phyfician can never be at a loss to vary his preferiptions as occasion requires.

The chemical and other difficult preparations are for the mole part omitted. All of them that are used by any private practitioner are not worth preparing. He will buy them much cheap er than he can make them. Great care however is neceffary to obtain them genuine. They are often adulterated, and ought never to be purchased unless from perfons of known veracity. Such of them as are in common use are inferted in the lift of drugs and me dicines. Their proper dofes and manner of application, an mentioned in the practical part of the Book, wherever they are pre foribed.

Such articles of medicine as are to be found in the houfe or garder of almost every peafant, as barley, eggs, onions, &c. are likewife, fo the most part, omitted. It is needlefs to fwell a list of medicine with fuch things as can be obtained whenever they are wanted, and which fpoil by being kept.

The preparations made and fold by diftillers and confectioners ar alfo generally left out. These people, by operating upon a large plan, generally make things better, while it is in their power to afford them much cheaper, than they can be prepared by any private hand.

The quantity ordered of every medicine is as fmall as could II be prepared, both to prevent unneceffary expence, and that medicine might not fpoil by keeping. Almost every medice fuffers by being kept, and should be used as soon after it been prepared as possible. Even simple drugs are apt to iil, and should therefore be laid in in small quantities; they mer rot, are confumed by infects, or evaporate, so as to lose iir peculiar taste or flavour, and often become quite infignisitt.

in the preparation of medicines, I have generally followed the ft improved Difpenfatories; but have taken the liberty to diffrom them wherever my own observations, or those of practiwriters, on whose judgment I could depend, fuggested an imwement.

In feveral compositions, the ingredient on which the efficacy the medicine principally depends is increased, while the auxities, which are generally ordered in fuch trifling quantities as to of no importance are left out, or only fuch of them retained are neceffary to give the medicine a proper confistence, or the

The colouring ingredients are likewife for the most part omit-They increase the bulk and price of the medicine, withadding any thing to its value. It would be well if they were eer used at all. Medicines are often adulterated for the fake a colour. Acrid and even poisonous substances are, for this pose, sometimes introduced into those medicines which ought be most bland and emollient. Ointment of elder, for example, streng frustrates the intention of that mild ointment. Those who is to obtain genuine medicines should pay no regard to their pour.

nome regard is likewife paid to expence. Such ingredients as antly increase the price of any composition, without adding contrably to its virtue, are generally either omitted, or fomewhat expensive substituted in their place. Medicines are by no means werful in proportion to their price. The cheapest are often the ; besides, they are the least apt to be adulterated, and are alws most readily obtained.

With regard to the method of compounding medicines, I e generally followed that which feemed to be the most fimand natural, mentioning the different steps of the process the fame order in which they ought to be taken, without ing an implicit regard to the method of other dispensatories. For many of the remarks concerning the preparation, Src. medicines, I have been obliged to the author of the New

Difpenfatory. The other observations are either fuch as have occurred to myself in practice, or have been fuggested in the course of reading, by authors whose names I am not able distinctly to recollect.

I have followed the alphabetical order, both with regard to the fimples and preparations. A more fcientific method would have been agreeable to fome perfons, but lefs ufeful to the genera. lity of readers. The different claffes of medicine have no great dependance upon one another; and where they have, it is hard to fay which ftand firft or laft; no doubt the fimple preparations ought to precede the more compound. But all the advantages arifing from this method of arrangement do not appear equal to that fingle one, of being able, on the firft opening of the book, to find out any article, which, by the alphabetical order, is rendered quite eafy.

The dofe of every medicine is mentioned whenever it appeared neceffary. When this is omitted it is to be underflood that the medicine may be used at a difcretion. The dose mentioned is always for an adult, unless when the contrary is expressed.

It is not an eafy matter to proportion the dofes of medicine exactly to the different ages, conflictutions, &c. of patients; but happily for mankind, mathematical exactnefs here is by no means neceffary.

Several attempts have been made to afcertain the proportional doses for the different ages and conflictutions of patients, but, after all that can be faid upon this fubject, a great deal muft be left to the judgment, and skill of the perfon who administers the medicine. The following general proportions may be obferved; but they are by no means intended for exact rules. A patient between twenty and fourteen may take two thirds of the dofe ordered for an adult; from fourteen to nine, one half; from nine to fix, one third; from fix to four, one-fourth; from four to two, one-fixth; from two to one, a tenth; and below one, a twelfth.

Difpenfatories are ufually written in the Latin language. Even authors who write in English, generally give their prefcriptions in Latin; and some of them shew so great an attachment to that language, as first to write their *recipes* in it, and afterwards translate them; while others, to compromise the matter, write the one half in Latin and the other in English. What peculiar charm a medical prefcription, when written in Latin, may have, I shall not pretend to say; but have ventured to make use of the plainest English I could, and hope my prefcriptions will succeed no worse for it.

W. B. The apothecary's weights, and the English wine meaes are used throughout the whole book, the different denominais of which will appear from the following Table :

A pound contains	twelve ounces.
An ounce	eight drachms.
A drachm	three fcruples.
A fcruple	twenty grains.

A gallon co	onta	ins	eight pints.
A pint -	-	-	fixteen ounces.
An ounce	-		eight drachms.

A fpoonful is the measure of half an ounce.

LIST OF SIMPLES,

AND

Of such MEDICINAL PREPARATIONS, as ought to be kept in readiness for PRIVATE PRACTICE.

AGARIC Alum Antimony, crude _____ cinnabar of ______ sulphur of Balsam of Capivi _____ of Peru ----- of Tolu Bark, cafcarilla ---- cinnamon ____ Mezerion ____ Peruvian ----- Winter's, or cannella alba ----- camphor Borax Calamine ftone, levigated Caftor, Ruffian Cauftic, common ____ Iunar Earth, Fuller's ____ Japan ---- Armenian bole ----- French ditto Extracts of gentian _____ of gualacum _____ hellebore, black _____ of hemlock _____ of jalap _____ of liquorice ----- of Peruvian bark ----- of poppies ____ of wormwood Flowers of camomile _____ colt's foot ----- elder _____ rolemary _____ damafk rofes red ditto Fruits, almonds

Fruits, bitter apple ---- caffia fiftularis ----- Curaffao oranges ---- figs, dried ---- French prunes ----- Jamaica pepper _____ juniper berries ---- nutmegs ---- tamarinds Gums, aloes ----- ammoniac, in tears ----- arabic ----- asafœtida ----- galbanum ____ gamboge ---- guaiacum ---- kino ---- myrrh ---- opium Hartfhorn, calcined ----- fhavings of Herbs, leffer century ---- peppermint ---- fpearmint ---- penny royaL ---- favin ----- trefoil - uva urfi ---- wormwood Lead, Litharge ---- white ----- sugar of Lemon-peel Mace Magnefia alba Manna Mercury, crude _____ calcinated

LIST OF SIMPLES, &c.

ccury, Æthiop's mineral ____ calomel ---- corrofive fublimate ---- red precipitate lik effential, of amber ----- of annife ----- of cinnamon ----- of juniper _____ of lemon-peel of peppermint expreffed, of almonds ----- of linfeed of olives, or Florence oil ----- of palms of terpentine inge-peel tter fhells prepared py-heads ins, benzoin flowers of ---- Burgundy pitch ---- dragon's blood ---- frankincenfe ---- liquid ftorax ---- white, or rofin ---- fcammony ots, birthwort - calamus aromaticus -- contrayerva - garlic - gentian - ginger - hellebore, black, white - Jalap - ipecacuanha - lily, white - liquorice - marfhmallow - mezerion - rhubarb - farsaparilla - feneka - fquills - tormentil

Roots, tarmeric ---- Virginian Inake ---- wild valerian ____ zedoary Saffron Sal ammoniac, crude ---- volatile Salt, Epfum ----- of Glauber ----- of hartfhorn ----- nitre, purified, or prunel ----- Polychreft ---- Rochel ----- of tartar Seeds, anife ----- carraway ----- cardamom ---- corriander ---- cummin ---- muftard ---- fweet fennel ---- wild carrot Senna Spanish flies, Sperma ceti Spirits, ætherial, or æther _____ of hartfhorn ------ of lavender, compound ----- of nitre ------ ditto dulcified of fal ammoniac ----- of fea falt ----- of vinegar ----- of vitriol ----- of wine rectified ------ volatile aromatic Steel, filings of ---- ruft of, prepared ---- foluble falt of Sulphur vivum ---- balfam of ----- flowers of Tar - Barbadoes Tartar, cream of ---- emetio 2

LIST OF SIMPLES, &c.

Tartar, foluble — vitriolated Tin prepared Tutty, levigated Turpentine, Venice Verdegrife Vitriol, green — blue Vitriol, white Wax, white — yellow Woods guaiacum — logwood — faffafras — faunders, red Zinc, flowers of

MEDICAL PREPARATIONS.

BALSAMS.

IE subject of this section is not the natural balfams, but certain compositions, which, from their being supposed to pofbalfamic qualities, generally go by that name.

his clafs of medicines was formerly very, numerous, and held in t efteem : modern practice, however, has juftly reduced it to a narrow compafs.

Anodyne Balsam.

IAKE of white Spanish soap, one ounce : opium, unprepared, two thms; rectified spirit of wine, nine ounces. Digest them togein a gentle heat for three days; then strain off liquor, and add to it ee drachms of camphor.

This balfam, as its title expresses, is intended to ease pain. It is fervice in violent strains and rheumatic complaints, when not inded with inflammation. It must be rubbed with a warm hand the part affected; or a linen rag moistened with it may be aped to the part, and renewed every third or fourth hour, till the is abates. If the opium is left out, this will be the faponacious im.

Locatelli's Balsam.

'AKE of olive oil, one pint; Strafburg turpentine and yellow wax, ach half a pound; red faunders, fix drachms. Melt the wax with e part of the oil over a gentle fire; then adding the remaining of the oil and the turpentine; afterwards mix in the faunders, vioufly reduced to a powder, and keep them ftirring together till balfam is cold.

This balfam is recommended in erofions of the inteffines, the entery, hæmorrhages, internal bruifes, and in fome complaints of breaft. Outwardly it is ufed for healing and cleanfing wounds ulcers. The dofe, when taken internally is from two fcruples two drachms.

The Vulnerary Balsam.

TAKE of benzoin, powdered, three ounces; balfam of Peru, o ounces; hepatic aloes, in powder, half an ounce; rectifi-

APPENDIX.

ed fpirit of wine, two pints. Digeft them in a gentle heat for three days, and then ftrain the balfam.

This balfam, or rather tincture, is applied externally to heal recent wounds and bruifes. It is likewife employed internally to remove coughs, afthmas, and other complaints of the breaft. It is faid to eafe the colic, cleanfe the kidnies, and to heal internal ulcers, &c.

The dofe is from twenty to fixty drops.

This, though a medicine of fome value, does not deferve the extravagant encomiums which have been bestowed on it. It has been celebrated under the different names of The Commander's Balfam, Persian Balfam, Balfam of Berne, Wade's Balfam, Friar's Balfam, Jejuit's Drops, Turlington's Drops, Cc.

BOLUSES.

A S bolufes are intended for immediate ufe, volatile falts and other ingredients improper for being kept, are admitted into their compolition. They are generally composed of powders, with a proper quantity of fyrup, conferve, or mucilage. The lighter powders are commonly made up with fyrup, and the more ponderous, as mercury, &c. with conferve; but those of the lighter kind would be more conveniently made up with mucilage, as it increases their bulk less than the other additions, and likewise occasions the medicine to pass down more eafily.

Astringent Bolus.

TAKE of alum, in powder, fifteen grains; gum kino, five grains; fyrup, a sufficient quantity to make a bolus.

In an exceffive flow of the *menses*, and other violent difcharges of blood, proceeding from relaxation, this bolus may be given every four or five hours, till the difcharge abates.

Diaphoretic Bolus.

TAKE of gum guaiacum, in powder, ten grains; flowers of fulphur and cream of tartar, of each one fcruple; fimple fyrup, a fufficient quantity.

In rheumatic complaints, and diforders of the skin, this bolus may be taken twice a day. It will also be of fervice in the inflammatory quintey.

BOLUSES.

Mercurial Bolus.

'AKE of calomel, fix grains; conferve of rofes, half a drachm.

Where mercury is neceffary, this bolus may be taken twice or ce a week. It may be taken over night; and if it does not oite, a few grains of jalap will be proper next day to carry it

Bolus of Rhubarb and Mercury.

AKE of the best rhubarb, in powder, from a scruple to half a hm; of calomel, from four to fix grains; fimple syrup, a sufint quantity to make a bolus.

This is a proper purge in hypochondriac conflications; but its accipal intention is to expel worms. Where a ftronger purge is ceffary, jalap may be used instead of the rhubarb.

Pectoral Bolus.

"AKE of fperma ceti, a foruple; gum ammoniac, ten grains; falt artshorn, fix grains; fimple fyrup, as much as will make them a bolus.

This bolus is given in colds and coughs of long ftanding, afthmas beginning confumptions of the lungs. It is generally proper to ad the patient before he begins to use it.

Purging Bolus.

AKE of jalap, in powder, a fcruple; cream of tartar, two fcru-Let them be rubbed together, and formed into a bolus, with the fyrup.

Where a mild purge is wanted, this will answer the purpose very 1. If a stronger dose is necessary, the jalap may be increased to a drachm or upwards.

CATAPLASMS AND SINAPISMS.

ATAPLASMS poffefs few or no virtues fuperior to a poultice, which may be fo made, as in most cafes to fupply their place. y are chiefly intended either to act as difcutients, or to promote puration; and as they may be of fervice in fome cafes, we fhall : a fpecimen of each kind.

APPENDIX:

Discutient Cataplasm.

TAKE of barley-meal, fix ounces; fresh hemlock leaves, bruif. ed, two ounces; vinegar, a sufficient quantity. Boil the meal and hemlock in the vinegar for a little, and then add two drachms of the sugar of lead.

Ripening Cataplasm.

TAKE of white lily root, four ounces; fat figs and raw onions, bruifed, of each one ounce; yellow befiltcum ointment, two ounces; gum galbanum, half an ounce; linfeed meal, as much as neceffary. Boil the roots along with the figs in a fufficient quantity of water; then bruife and add to them the other ingredients, fo as to form the whole into a foft cataplafm. The galbanum must be previously diffolved with the yolk of an egg.

Where it is neceffary to promote fuppuration, this cataplaim may be used by those who chuse to be at the trouble and expense of making it. For my part, I have never found any application more proper for this purpose than a poultice of bread and milk, with a fufficient quantity of either boiled or raw onion in it, and fostened with oil or fresh butter.

Sinapisms:

SINAPISMS are employed to recal the blood and fpirits to a weak part, as in the palfy and atrophy. They are alfo of fervice in deep-feated pains, as the fciatica, \mathfrak{Sc} . When the gout feizes the head or the ftomach, they are applied to the feet to bring the diforder to thefe parts. They are likewife applied to the patient's foles in the low ftate of fevers. They fhould not be fuffered to lie on, however, till they have raifed blifters, but till the parts become red, and will continue fo when preffed with the finger.

The finapifm is only a poultice made with vinegar inftead of milk, and rendered warm and ftimulating by the addition of muftard, horfe-radifh, or garlic.

The common finapifm is made by taking crumb of bread and muftard-feed in powder, of each equal quantities; ftrong vinegar as much as is sufficient, and mixing them fo as to make a poultice.

When finapifms of a more flimulating nature are wanted, a little bruifed garlic may be added to the above.

CLYSTERS.

HIS clafs of medicines is of more importance than is generally imagined. Clyfters ferve, not only to evacuate the contents he belly, but alfo to convey very active medicines into the om. Opium, for example, may be administered in this way in it will not fit upon the ftomach, and alfo in larger dofes at any time it can be taken by the mouth. The Peruvian may likewife be with good effect administered in form of eer to perfons who cannot take it by the mouth.

fimple clyfter can feldom do hurt, and there are many cafhere it may do much good. A clyfter, even of warm waby ferving as a fomentation to the parts, may be of confiderfervice in inflammations of the bladder, and the lower inmes, &c.

ome fubftances, as the fmoke of tobacco, may be thrown inme bowels in this way, which cannot by any other means never. This may be eafily effected by means of a pair of bellows, with an apparatus fitted to them for that purpose. For is the use of clysters confined to medicines. Aliment alfo be conveyed in this way. Perfons unable to fwallow, been, for a confiderable time, fupported by clysters.

Emollient Clyster.

TAKE of linfeed tea and new milk each fix ounces. Mix fifty or fixty drops of laudanum be added to this, it will fuplhe place of the Anodyne Clyfter.

Laxative Clyster.

TAKE of milk and water, each fix ounces; fweet oil or fresh ar, and brown fugar, of each two ounces. Mix them. an ounce of Glauber's falt, or two table-fpoonfals of comifalt, be added to this, it will be the *Purging Clyster*.

Carminative Clyster.

4 C

IKE of camomile flowers, an ounce; anife-feeds, half an e. Boil in a pint and a half of water to one pint. hyfteric and hypochondriac complaints this may be admired inftead of the *Fætid Clyfter*, the fmell of which is fo distable to most patients.

Oily Clyster.

To four ounces of the infufion of camomile flowers, add an equal quantity of Florence oil.

This clyfter is beneficial in bringing off the fmall worms lodged in the lower parts of the alimentary canal. When given to children the quantity must be proportionably leffened.

Starch Clyster.

TAKE jelly of flarch, four ounces; linfeed oil, half an ounce. Liquify the jelly over a gentle fire, and then mix the oil.

In the dyfentery or bloody flux, this clyfter may be adminiflered after every loofe flool, to heal the ulcerated inteffines and blunt the fharpness of corroding humours. Forty or fifty drops of laudanum may be occasionally added; in which case, it will generally supply the place of the Astringent Clyster.

Turpentine Clyster.

TAKE of common decoction, ten ounces; Venice turpentine, diffolved with the yolk of an egg, half an ounce; Florence oil, one ounce. Mix them.

This diuretic clyfter is proper in obftructions of the urinary paffages, and in colicky complaints, proceeding from gravel.

Vinegar Clyster.

THIS clyfter is made by mixing three ounces of vinegar with five of water-gruel.

It anfwers all the purpofes of a common clyfter, with the peculiar advantage of being proper either in inflammatory or putrid diforders, efpecially in the latter.

We think it unneceffary to give more examples of this clais of medicines, as ingredients adapted to any particular intention may be occasionally added to one or other of the above forms.

COLLYRIA, OR EYE-WATERS.

EYE-WATERS have been multiplied without number, almost every perfon pretending to be posselfied of fome fecret preparation for the cure of fore eyes. I have examined many of them, and find that they are pretty much alike, the basis of most of them being either alum, vitriol, or lead. Their effects evidently are, to brace and restore the tone of the parts; hence

COLLYRIA, OR EYE-WATERS.

are principally of fervice in flight inflammations; and in that ted ftate of the parts which is induced by obftinate ones. amphor is commonly added to thefe compositions; but as dom incorporates properly with the water, it can be of litfe. Boles and other earthly fubftances, as they do not difin water, are likewife unfit for this purpofe.

Collyrium of Alum.

AKE of alum, half a drachm; agitate it well together with white of one egg.

his is the Collyrium of Riverius. It is used in inflammation ne eyes, to allay heat and restrain the flux of humours. It to be spread upon linen, and applied to the eyes; but should the kept on above three or four hours at a time.

Vitriolic Collyrium.

AKE of white vitriol, half a drachm; role water, fix oun-Diffolve the vitriol in the water, and filter the liquor.

his, though fimple, is perhaps equal in virtue to most of celebrated collyria. It is an uteful application in weak, rry, and inflamed eyes. Though the flighter inflamma-; will generally yield to it, yet in those of a more obstinate re the affittance of bleeding and bliftering will often be nerry.

Then a ftrong aftringent is judged proper, a double or triple atity of the vitriol may be used. I have feen a folution of times the ftrength of the above used with manifest advan-

Collyrium of Lead.

AKE fugar of lead, and crude fal ammoniac, of each four is. Diffolve them in eight ounces of common water.

orty or fifty drops of laudanum may be occafionally added nis collyrium.

hofe who chufe may fubstitute instead of this the collyrium ead recommended by Goulard; which is made by putting aty-five drops of his *Extract of Lead* to eight ounces of waand adding a tea-spoonful of brandy.

ideed, common water and brandy, without any other addi-, will in many cafes anfwer very well as a collyrium. An ce of the latter may be added to five or fix ounces of the her; and the eyes, if weak, bathed with it night and morn-

CONFECTIONS.

CONFECTIONS containing above fixty ingredients are fill to be found in fome of the most reformed dispensatories. As most of their intentions, however, may be more certainly, and as effectually answered by a few glasses of wine or grains of opium, we shall pass over this class of medicines very flightly.

Japonic Confection.

TAKE of Japan earth, three ounces; tormentil root, nutmeg, oblibanum, of each, two ounces; opium diffolved in a fufficient quantity of Lifbon wine, a drachm and a half; fimple fyrup and conferve of roles, of each fourteen ounces. Mix and make them into an electuary.

This fupplies the place of the Difcordium.

The dofe of this electuary is from a fcruple to a drachm.

CONSERVES AND PRESERVES.

EVERY Apothecary's shop was formerly to full of these preparations, that it might have passed for a confectioner's warehouse. They posses very few medicinal properties, and may rather be classed among sweat-meats than medicines. They are fometimes, however, of use, for reducing into boluses or pills fome of the more ponderous powders, as the preparations of iron, mercury, and tin.

Conferves are compositions of fresh vegetables and fugar, beaten together into an uniform mass. In making these preparations, the leaves of vegetables must be freed from their staks, the flowers from their cups, and the yellow part of orange peel taken off with a rasp. They are then to be pounded in a marble mortar, with a wooden pestle, into a smooth mass; after which, thrice their weight of fine sugar is commonly added by degrees, and the beating continued till they are uniformly mixed; but the conserve will be better if only twice its weight of sugar be added.

Those who prepare large quantities of conferve generally reduce the vegetables to a pulp by the means of a mill, and afterwards beat them up with the fugar.

Conserve of Red Roses.

TAKE a pound of red rofe buds, cleared of their heels; beat them well in a mortar, and, adding by degrees two pounds of double-refined fugar, in powder, make a conferve. fter the fame manner are prepared the conferves of orange-, rofemary flowers, fea-wormwood, of the leaves of woodel, &c.

the conferve of rofes is one of the most agreeable and useful parations belonging to this class. A drachm or two of it, lived in warm milk, is ordered to be given as a gentle reigent in weakness of the stomach, and likewise in phthisical ths, and spitting of blood. To have any confiderable effects, eever, it must be taken in larger quantities.

Conserve of Sloes.

HIS may be made by boiling the floes gently in water, being ful to take them out before they burft : afterwards exprefithe juice, and beating it up with three times its weight of fugar.

relaxations of the *uvula* and glands of the throat, this makes excellent gargle, and may be used at differentian.

"referves are made by fteeping or boiling fresh vegetables first rater, and afterwards in fyrup, or a folution of fugar. The sect is either preferved moilt in the fyrup, or taken out and d, that the fugar may candy upon it. The last is the most al method.

Candied Orange Peel.

DAK Seville orange peel in feveral waters, till it lofes its renefs; then boil it in a folution of double-refined fugar in er, till it becomes tender and transparent.

andied lemon peel is prepared in the fame manner.

is needlefs to add more of thefe preparations, as they belong er to the art of the confectioner than that of the apothe-

DECOCTIONS.

TATER readily extracts the gummy and faline parts of vegetables; and though its action is chiefly confined to thefe, the refinous and oily being intimately blended with the gumand faline, are in great part taken up along with them. Hence ery decoctions and infufions of vegetables, conftitute a large, not unufeful, clafs of medicines. Although moft vegetables if their virtues to water, as well by infufion as decoction, the latter is often neceffary, as it faves time, and does in a minutes what the other would require hours, and fometimes 5, to effect.

he medicines of this class are all intended for immediate use.

Decoction of Althæa.

TAKE of the roots of marfh-mallows, moderately dried, three ounces; raifins of the fun, one ounce; water three pints.

Boil the ingredients in the water till one third of it is confumed; afterwards ftrain the decoction and let it ftand for fome time to fettle. If the roots be throughly dried, they must be boiled till one half the water be confumed.

In coughs, and fharp defluctions upon the lungs, this decoction may be used for ordinary drink.

The Common Decoction.

TAKE of cammomile flowers, one ounce; elder flowers, and fweet fennel feeds, of each half an ounce; water, two quarts. Boil them for a little, and then firain the decoction.

A medicine equally good may be prepared by infufing the ingredients for fome hours in boiling water.

This decoction is chiefly intended as the bafis of clyfters, to which other ingredients may be occafionally added. It will likewife ferve as a common fomentation, fpirit of wine or other things being added in fuch quantity as the cafe may require.

Decoction of Logwood.

Boil three ounces of the fhavings, or chips, of logwood, in four pints of water, till one half the liquor is wafted. Two or three ounces of fimple cinnamon-water may be added to this decoction.

In fluxes of the belly, where the ftronger aftringents are improper, a tea-cupful of this decoclion may be taken with advantage three or four times a-day.

Decoction of the Bark.

Boil an ounce of the Peruvian bark, grofsly powdered, in a pint and a half of water to one pint; then ftrain the decoction. If a tea-fpoonful of the weak spirit of vitriol be added to this medicine, it will render it both more agreeable and efficacious.

Compound Decoction of the Bark.

TAKE of Peruvian bark and Virginian fnake-root, grofsly powdered each three drachms. Boil them in a pint of water to one half. To the ftrained liquor add an ounce and a half of aromatic water.

DECOCTIONS.

r John Pringle recommends this as a proper medicine toas the decline of malignant fevers, when the pulfe is low, voice weak, and the head affected with a ftupor, but with delirium.

ne dofe is four spoonfuls every fourth or fixth hour.

Decoction of Sarsaparilla.

IKE of fresh farfaparilla root, sliced and bruised, two ounschwings of guaiacum wood, one ounce. Boil over a structure of the structure of t

his may either be employed as an affiftant to a courfe of urial alteratives, or taken after the mercury has been ufed iome time. It ftrengthens the ftomach, and reftores flefh rigour to habits emaciated by the venereal difeafe. It may be taken in the rheumatifm, and cutaneous diforders proceedrom foulness of the blood and juices. For all thefe intentions greatly preferable to the *Decoction of Woods*.

his decoction may be taken, from a pint and a half, to two is in the day.

ne following decoction is said to be fimilar to that used by edy, in the cure of the venereal difeafe, and may fupply the of Lifbon diet drink :

ke of farfaparilla, three ounces; liquorice and mezerion of each half an ounce; fhavings of guaiacum and faffafras , of each one ounce; crude antimony, powdered, an ounce . half. Infufe thefe ingredients in eight pints of boiling waor twenty-four hours, then boil them till one half of the water ifumed; afterwards ftrain the decoction.

is decoction may be used in the fame manner as the pre-

Decoction of Seneka.

KE of feneka rattle-fnake root, one ounce; water, a pint half. Boil to one pint, and strain.

is decoction is recommended in the pleurify, dropfy, rheum, and fome obstinate diforders of the skin. The dose is ounces, three or four times a-day, or oftener, if the stomach bear it.

White Decoction.

KE of the purest chalk, in powder, two ounces; gum-arabic, in ounce; water, three pints. Boil to one quart, and strain ecoction.

This is a proper drink in acute difeafes, attended with, or inclining to a loofenefs, and where acidities abound in the ftomach or bowels. It is peculiarly proper for children when afflicted with fournefs of the ftomach, and for perfons who are fubject to the heartburn. It may be fweetened with fugar, as it is ufed, and two or three ounces of simple cinnamon-water added to it.

An ounce of powdered chalk, mixed with two pints of water, will occafionally supply the place of this decoction, and alfo of the chalk julep.

DRAUGHTS.

THIS is a proper form for exhibiting fuch medicines as are intended to operate immediately, and which do not need to be frequently repeated; as purges, vomits, and a few others, which are to be taken at one dofe. Where a medicine requires to be ufed for any length of time, it is better to make up a larger quantity of it at once, which faves both trouble and expence.

Anodyne Draught.

TAKE of liquid laudanum, twenty-five drops; fimple cinnamon water, an ounce; common fyrup, two drachms. Mir them.

In exceffive pain, where bleeding is not neceffary, and in great reftleffnefs, this composing draught may be taken and repeated occasionally.

Diuretic Draught.

TAKE of the diuretic falt, two fcruples; fyrup of poppies, two drachms; fimple cinnamon-water and common water, of each an ounce.

This draught is of fervice in an obstruction or deficiency of urine.

Purging Draughts.

TAKE of manna, an ounce; foluble tartar, or Rochel falt from three to four drachms. Diffolve in three ounces of boiling water; to which add Jamaica pepper-water, half an ounce.

As manna fometimes will not fit upon the ftomach, an ounce or ten drachms of the bitter purging falts, diffolved in four ounces of water; may be taken inftead of the above.

Those who cannot take falts may use the following draught:

575

ELECTUARIES.

hke of jalap in powder, a fcruple; common water, an ounce; matic tincture, fix drachms. Rub the jalap with twice its tht of fugar, and add to it the other ingredients.

Sweating Draught.

The fpirit of Mindererus, two ounces; falt of hartshorn, grains; fimple cinnamon-water, and fyrup of poppies, of half an ounce. Make them into a draught.

recent colds and rheumatic complaints, this draught is of cce. To promote its effects, however, the patient ought to freely of warm water gruel, or of fome other weak dilutliquor.

Vomiting Draughts.

MKE of ipecacuanha, in powder, a scruple; water, an we; fimple fyrup, a drachm. Mix them.

a grain, or a grain, of emetic tartar.

noie who do not chufe the powder, may take ten drachms the ipecacuanha wine; or half an ounce of the wine, and qual quantity of the fyrup of fquills.

ELECTUARIES.

ECTUARIES are generally composed of the lighter powdiers, mixed with fyrup, honey, conferve, or mucilage, into a confistence, that the powder may neither feparate by ing, nor the mass prove too fliff for twallowing. They rechiefly the milder alterative medicines, and fuch as are not interful to the palate.

thringent electuaries, and fuch as have pulps of fruit in the figure only in figure quantities; as aftringent incines lofe their virtues by being kept in this form, and the ss of fruits are apt to ferment.

or the extraction of pulps it will be neceffary to boil unfruits, and ripe ones if they are dried, in a imall quantity ater till they become foft. The pulp is then to be prefied through a ftrong hair fieve, or thin cloth, and afterwards of to a due confiftence, in an earthen veffel, over a gentle taking care to prevent the matter from burning by continuftirring it. The pulps of fruit that are both ripe and frefh be prefied out without any previous boiling.

577

Lenitive Electuary.

TAKE of fenna, in fine powder, eight ounces; coriander feed alfo in powder four ounces; pulp of tamarinds and of French prunes, each a pound. Mix the pulps and powders together, and with a fufficient quantity of fimple fyrup reduce the whole into an electuary.

A tea fpoonful of this electuary, taken two or three times aday, generally proves an agreeable laxative. It likewife ferves as a convenient vehicle for exhibiting more active medicines, as jalaps, fcammomy, and fuch like.

This may supply the place of the electuary of Caffia.

Electuary for the Dysentery.

TAKE of the Japonic confection, two ounces; Locatelli's balfam, one ounce; rhubarb in powder, half an ounce; fyrup of marfh-mallows, enough to make an electuary.

It is often dangerous in dyfenteries to give opiates and astringents, without interpoling purgatives. The purgative is here joined with these ingredients, which renders this a very fafe and useful medicine for the purposes expressed in the title.

About the bulk of a nutmeg fhould be taken twice or thrice a-day, as the fymptoms and conflictution may require.

Electuary for the Epilepsy.

TAKE of Peruvian bark, in powder, an ounce; of powdered tin, and wild valerian root, each half an ounce; fimple fyrup, enough to make an electuary.

Dr Mead directs a drachm of an electuary fimilar to this to be taken evening and morning, in the epileply, for the fpace of three months. It will be proper, however, to discontinue the ufe of it for a few days every now and then. I have added the powdered tin, because the epileply often proceeds from worms.

Electuary for the Gonorrhaa.

TAKE of the lenitive electuary, three ounces; jalap and rhubarb, in powder, of each two drachms; nitre, half an ounce; fimple fyrup, enough to make an electuary.

During the inflammation and tenfion of the urinary paffages; which accompany a virulent gonorrhœa, this cooling laxative may be ufed with advantage.

The dofe is a drachm, or about the bulk of a nutmeg, two

ELECTUARIES.

three times a-day; more or lefs, as may be neceffary to keep body gently open.

An electuary made of cream of tartar and fimple fyrup will rationally supply the place of this.

After the inflammation is gone off, the following electuary y be ufed :

Take of lenitive electuary, two, ounces; balfam of capivi, one ace; gum guaiacum and rhubarb, in powder, of each two chms; fimple fyrup, enough to make an electuary. The ie is the fame as of the preceding.

Electuary of the Bark.

ITAKE of Peruvian bark, in powder, three ounces; cafcarilla, if an ounce; fyrup of ginger, enough to make an electuary. In the cure of obftinate intermitting fevers, the bark is affiftby the cafcarilla. In hectic habits, however, it will be betto leave out the cafcarilla, and put three drackms of crude ammoniac in its ftead.

Electuary for the Piles.

ITAKE flowers of fulphur, one ounce; cream of tartar, kalf an ince; treacle, a fufficient quantity to form an electuary. A tea-spoonful of this may be taken three or four times a-day.

Electuary for the Palsy.

TAKE of powdered multard-feed, and conferve of red roles, ch an ounce; fyrup of ginger, enough to make an electuary. A tea-fpoonful of this may be taken three or four times a day.

Electuary for the Rheumatism.

TAKE of conferve of rofes, two ounces; cinnabar antimo-, levigated, an ounce and a half; gum guaiacum, in powder, an ince; lyrup of ginger, a fufficient quantity to make an electuary. In obstinate rheumatisms, which are not accompanied with a ver, a tea spoonful of this electuary may be taken twice a-day ith confiderable advantage.

EMULSIONS.

E MULSIONS, befide their use as medicines, are also proper vehicles for certain substance which could not otherwise be conveniently taken in a liquid form. This camphor, triturated with almonds, readily unites with water into an emulsion. Pure oils, balfams, refins, and other similar substances, are likewise rendered miscible with water by the intervention of mucilages.

Common Emulsion.

TAKE of fweet almonds, an ounce; bitter almonds, a drachm; water, two pints.

Let the almonds be blanched, and beat up in a marble mortar; adding the water by little and little, fo as to make an emulfion; afterwards let it be ftrained.

Arabic Emulsion.

THIS is made in the fame manner as the above, adding to the almonds, while beating, two ounces and a half of the mucilage of gum arabic.

Where foft cooling liquors are neceffary, thefe emulfions may be ufed as ordinary drink.

Camphorated Emulsion.

TAKE of camphor, half a drachm; fweet almonds, half a dozen; white fugar, half an ounce; mint water, eight ounces. Grind the camphor and almonds well together in a ftone mortar, and add by degrees the mint water; then ftrain the liquor, and diffolve in it the fugar.

In fevers, and other diforders which require the ule of camphor, a table-spoonful of this emulion may be taken every two or three hours.

Emulsion of Gum Ammoniac.

TAKE of gum ammoniac, two drachms; water, eight ounces. Grind the gum with the water poured upon it by little and little, till it is diffolved.

This emultion is used for attenuating tough, viscid phlegm, and promoting expectoration. In obstinate coughs, two ounces

EXTRACTS.

the fyrup of poppies may be added to it. The dofe is two tae-spoonfuls three or four times a-day.

Oily Emulsion.

TAKE foft water, fix ounces; volatile aromatic spirit, two achms; Florence oil, an ounce; shake them well together, and d, of simple syrup, half an ounce.

In recent colds and coughs, this emulation is generally of ferte; but if the cough proves obftinate, it will fucceed better nen made with the paregoric elixir of the Edinburgh Difpenfatry, initead of the volatile aromatic fpirit. A table fpoonful of imay be taken every two or three hours.

EXTRACTS.

"XTRACTS are prepared by boiling the fubject in water, and evaporating the ftrained decoction to a due confiftence. By is process fome of the more active parts of plants are freed from e uselets, indiffoluble earthy matter, which makes the larger are of their bulk. Water, however, is not the only menstruum ed in the preparation of extracts; sometimes it is joined with itrits, and at other times rectified spirit of wine alone is employed are that purpose.

Extracts are prepared from a variety of different drugs, as the irk, gentian, jalap, &c.; but as they require a troublefome and dious operation, it will be more convenient for a private practioner to purchafe what he needs of them from a profeffed druggift, an to prepare them himfelf. Such of them as are generally ed are inferted in our lift of fuch drugs and medicines as are to kept for private practice.

FOMENTATIONS.

OMENTATIONS are generally intended either to eafe pain, by taking off tention and ipafm; or to brace and reftore the tone ind vigour of those parts to which they are applied. The first of nese intentions may generally be answered by warm water, and be second by cold. Certain substances, however, are usually aded to water, with a view to heighten its effects, as anodynes, comatics, astringents, &c. We shall therefore subjoin a few of the most useful medicated fomentations, that people may have it their power to make use of them if they chuse.

Anodyne Fomentation.

TAKE of white poppy-heads, two ounces; elder flowers, half an ounce; water, three pints. Boil till one pint is evaporated, and ftrain out the liquor.

This fomentation, as its title expresses, is used for relieving acute pain.

Aromatic Fomentation.

TAKE of Jamaica pepper, half an ounce; red wine, a pint.-Boil them for a little, and then strain the liquor.

This is intended, not only as a topical application for external complaints, but alfo for relieving the internal parts. Pains of the bowels, which accompany dyfenteries and diarrhœas, flatulent colics, uneafinefs of the ftomach, and reachings to vomit, are frequently abated by fomenting the abdomen and region of the ftomach with the warm liquor.

Common Fomentation.

TAKE tops of wormwood and camomile flowers, dried, of each two ounces; water, two quarts. After a flight boiling, pour off the liquor.

Brandy or fpirit of wine may be added to this fomentation, in fuch quantity as the particular circumstances of the cafe shall require; but these are not always necessary.

Emollient Fomentation.

THIS is the fame as the common decoction.

Strengthening Fomeniation.

TAKE of oak bark, one ounce; granate peel, half an ounce; alum, two drachms; fmith's forge water, three pints. Boil the water with the bark and peel to the confumption of one third; then firain the remaining decoction, and diffolve it in alum.

This aftringent liquor is employed as an external fomentation to weak parts; it may also be used internally.

GARGLES.

HOWEVER triffing this class of medicines may appear, they are by no means without their use. They feldom indeed cure

GARGLES.

afes, but they often alleviate very difagreeable fymptoms; as chednefs of the mouth, foulnefs of the tongue and fauces, they peculiarly ufeful in fevers and fore throats. In the latter, a gle will fometimes remove the diforder; and in the former, things are more refreshing or agreeable to the patient, than have his mouth frequently washed with fome fost detergent gle.

Ine advantage of these medicines is, that they are easily preed. A little barley-water and honey may be had any where; if to these be added as much vinegar as will give them an aeable sharpness, they will make a very useful gargle for softenland cleansing the mouth.

largles have the belt effect when joined with a fyringe.

Attenuating Gargles.

ake of water fix ounces; honey, one ounce; nitre, a drachm a half. Mix them.

This cooling gargle may be used either in the inflammatory user, or in fevers, for cleaning the tongue and fauces.

Common Gargles.

AKE of role-water, fix ounces; fyrup of clove July-flowers, an ounce; fpirit of vitriol, a fufficient quantity to give it an eable fharpnels. Mix them.

his gargle, befides cleanfing the tongue and fauces, acts a gentle repellent, and will sometimes remove a flight quin-

Detergent Gargles.

AKE of the emollient gargle, a pint; tincture of myrrh, an ce; honey, two ounces. Mix them.

When exulcerations require to be cleanfed, or the excretion tough vifcid faliva promoted, this gargle will be of fer-

Emollient Gargles.

AKE an ounce of marfhmallow roots, and two or three figs; them in a quart of water till near one half of it be confumthen ftrain out the liquor.

t an ounce of honey, and half an ounce of fpirit of fal-amniac, be added to the above, it will then be an exceeding good muating gargle.

This gargle is beneficial in fevers, where the tongue and fauces are rough and parched, to foften thefe parts, and promote the difcharge of faliva.

The learned and accurate Sir John Pringle obferves, that in the inflummatory quinfey, or ftrangulation of the fauces, little benefit arifes from the common gargles; that fuch as are of an acrid nature do more harm than good, by contracting the emunctories of the fativa and mucus, and thickening those humours; that a decoction of figs in milk and water has a contrary effect, especially if fome fal-ammoniac be added; by which the faliva is made thinner, and the glands brought to fecrete more freely; a circumftance always conducive to the cure.

INFUSION.

VECETABLES yield nearly the fame properties to water by infufion as by decoction; and though they may require a longer time to give out their virtues in this way, yet it has feveral advantages over the other; fince boiling is found to diffipate the finer parts of many bitter and aromatic fubftances, without more fully extracting their medicinal principles.

The author of the New Difpenfatory observes, that even from those vegetables which are weak in virtue, rich infusions may be obtained, by returning the liquor upon fresh quantities of the subject, the water loading itself more and more with the active parts; and that these loaded infusions are applicable to valuable purposes in medicine, as they contain in a small compass the finer, more fubtile, and active principles of vegetables, in a form readily milcible with the fluids of the human body.

Bitter Infusion.

TAKE tops of the leffer centaury and camomile flowers, of each half an ounce; yellow 'rind of lemon and orange peel, carefully freed from the inner white part, of each two drachms. Cut them in fmall pieces, and infuse them in a quart of boiling water.

For indigeftion, weaknefs of the ftomach, or want of appetite, a tea-cupful of this infufion may be taken twice or thrice aday.

Infusion of the Bark.

To an ounce of the bark, in powder, add four or five table-fpoonfuls of brandy, and a pint of boiling water. Let them infule for two or three days.

584

INFUSIONS.

This is one of the best preparations of the bark for weak ftoachs. In diforders where the corroborating virtues of that metime are required, a tea-cupful of it may be taken two or three mes a-day.

Infusion of Carduus.

INFUSE an ounce of the dried leaves of carduus benedictus, or effed thiftle, in a pint of common water, for fix hours, without at; then filter the liquor through paper.

This light infusion may be given, with great benefit, in weakis of the stomach, where the common bitters do not agree. It ay be flavoured at pleasure with cinnamon, or other aromatic aterials.

Infusion of Linseed.

TAKE of linfeed, two fpoonfuls; liquorice root, fliced, half an ince; boiling water, three pints. Let them fland to infufe by e fire for fome hours, and then ftrain off the liquor.

If an ounce of the leaves of colt's foot be added to thefe ingreents, it will then be the *pectoral infusion*. Both thefe are emolent mucilaginous liquors, and may be taken with advantage as dinary drink in difficulty of making water; and in coughs and her complaints of the breaft.

Infusion of Roses.

TAKE of red roles, dried, half an ounce; boiling water; a lart; vitriolic acid, commonly called oil of vitriol, half a drachm, af fugar, an ounce.

Infuse the roses in the water for four hours, in an unglazed rthen vessel; afterwards pour in the acid, and having strained liquor, add to it the sugar.

In an exceffive flow of the menses, vomiting of blood, and other emorrhages, a tea-cupful of this gently aftringent infufion may taken every three or four hours. It likewife makes an exceedg good gargle.

As the quantity of roses used here can have little or no effect, a equally valuable medicine may be prepared by mixing the acid and water without infusion.

Infusion of Tamarinds and Senna.

TAKE of tamarinds, one ounce; fenna, and crystals of tartar, ich two drachms. Let these ingredients be infused four or five

hours in a pint of boiling water; afterwards let the liquor be ftrained, and an ounce or two of the aromatic tincture added to it. Perfons who are eafily purged may leave out either the tamarinds or the crystals of tartar.

This is an agreeable cooling purge. A tea-cupful may be given every half hour till it operates.

This fupplies the place of the decoction of tamarinds and senna.

Spanish Infusion.

TAKE of Spanish juice, cut into small pieces, an ounce; falt of tartar, three drachms. Infuse in a quart of boiling water for a night. To the strained liquor add an ounce and a half of the fyrup of poppies.

In recent colds, coughs, and obstructions of the breast, a teacupful of this infusion may be taken with advantage three or four times a-day.

Infusion for the Palsy.

TAKE of horfe-radifh root fhaved, muftard feed bruised, each four ounces; outer rind of orange-peel, one ounce. Infufe them in two quarts of boiling water, in a clofe veffel, for twenty-four hours.

In paralytic complaints, a tea-cupful of this warm ftimulating medicine may be taken three or four times a-day. It excites the action of the folids, proves diuretic, and if the patient be kept warm, promotes perfpiration.

If two or three ounces of the dried leaves of marsh-trefoil be used instead of the mustard, it will make the antiscorbutic infusion.

JULEPS.

THE basis of juleps is generally common water, or fome fimple diffilled water, with one-third or one-fourth its quantity of diffilled spirituous water, and as much sugar or syrup as is fufficient to render the mixture agreeable. This is sharpened with vegetable or mineral acids, or impregnated with other medicines fuitable to the intension.

Camphorated Julep.

TAKE of camphor, one drachm; rectified fpirit of wine, ten drops; double refined fugar, half an ounce; boiling diffilled water, one pint. Rub the camphor first with the spirit of wine,

586

JULEPS.

en with the fugar; laftly, add the water by degrees, and ftrain ae liquor.

In hysterical and other complaints where camphor is proper, is julep may be taken in the dofe of a fpoonful or two as often the stomach will bear it.

Cordial Julep.

TAKE of fimple cinnamon-water, four ounces; Jamaica peper-water, two ounces; volatile aromatic fpirit, and compound firit of lavender, of each two drachms; fyrup of orange-peel, an ance. Mix them.

This is given in the dole of two fpoonfuls three or four times day, in diforders accompanied with great weaknefs and deprefon of fpirits.

Expectorating Julep.

TAKE of the emulation of gum ammoniac, fix ounces; fyrup of uills, two ounces. Mix them.

In coughs, afthmas, and obstructions of the breast, two tae-spoonfuls of this julep may be taken every three or four ours.

Musk Julep.

RUB half a drachm of musk well together with half an ounce fugar, and add to it, gradually, of fimple cinnamon and pepr-mint water, each two ounces; of the volatile aromatic fpi-, two drachms.

In the low state of nervous fevers, hiccuping, convulsions, and her spasmodic affections, two table spoonfuls of this julep may taken every two or three hours.

Saline Julep.

Dissolve two drachms of falt of tartar in three ounces of fresh non-juice, strained; when the effervescence is over, add of mintiter, and common water, each two ounces; of simple fyrup, one nce.

This removes fickness at the ftomach, relieves vomiting, proores perspiration, and may be of some service in severs, espelly of the inflammatory kind.

Vomiting Julep.

DISSOLVE four grains of emetic tartar in eight ounces of water, and add to it half an ounce of the fyrup of clove July flowers.

In the beginning of fevers, where there is no topical inflammation, this julep may be given in the dofe of one table fpoonful every quarter of an hour till it operates. Antimonial vomits ferves not only to evacuate the contents of the ftomach, but likewife to promote the different excretions. Hence they are found in fevers to have nearly the fame effects as Dr James's Powder.

MIXTURES.

A MIXTURE differs from a julep in this refpect, that it receives into its composition not only falts, extracts, and other fubstances diffoluble in water, but also earths, powders, and fuch fubstances as cannot be diffolved. A mixture is feldom either an elegant or agreeable medicine. It is nevertheless neces fary. Many perfons can take a mixture, who are not able to fwallow a bolus or an electuary: befides, there are medicines which act better in this than in any other form.

Astringent Mixture.

TAKE fimple common cinnamon and common water, of each three ounces; fpirituous cinnamon-water, an ounce and a half; Japonic confection, half an ounce. Mix them.

In dyfenteries which are not of long ftanding, after the neceffary evacuations, a fpoonful or two of this mixture may be taken every four hours, interpoing every fecond or third day a dole of shubarb.

Diuretic Mixture.

TAKE of mint-water, five ounces; vinegar of fquills, fix drachms; fweet fpirit of nitre, half an ounce; fyrup ginger, an ounce and a half. Mix them.

In obstructions of the urinary passages, two spoonfuls of this mixture may be taken twice or thrice a-day.

Laxative Absorbent Mixture.

RUB one drachm of magnefia alba in a mortar, with ten or welve grains of the best Turkey rhubarb, and add to them three

MIXTURES.

ances of common water; fimple cinnamon-water, and fyrup of gar, of each one ounce.

As most difeases of infants are accompanied with acidities, s mixture may either be given with a view to correct these, to open the body. A table-spoonful may be taken for a dose, I repeated three times a-day. To a very young child half a conful will be fufficient.

When the mixture is intended to purge, the dofe may either increased, or the quantity of rhubarb doubled.

This is one of the most generally useful medicines for chilen with which I am acquainted.

Saline Mixture.

DISSOLVE a drachm of the falt of tartar in four ounces of ling water; and, when cold, drop into it fpirit of vitriol till effervescence ceases; then add, of peppermint-water, two nces; simple fyrup, one ounce.

Where fresh lemons cannot be had, this mixture may occanally supply the place of the faline julep.

Squill Mixture.

TAKE of fimple cinnamon-water, five ounces; vinegar of tills, one ounce; fyrup of marshmallows, an ounce and a half. ix them.

This mixture, by promoting expectoration, and the fecretion urine, proves ferviceable in althmatic and dropfical habits. table-fpoonful of it may be taken frequently.

OINTMENTS, LINIMENTS, AND CERATES.

OTWITHSTANDING the extravagant encomiums which have been beflowed on different preparations of this kind, th regard to their efficacy in the cure of wounds, fores, &c. it beyond a doubt, that the moft proper application to a green ound is dry lint. But though ointments do not heal wounds d fores, yet they ferve to defend them from the external air, d to retain fuch fubftances as may be neceffary for drying, terging, deftroying proud fleih, and fuch like. For these purfes however, it will be fufficient to infert only a few of the oft fimple forms, as ingredients of a more active nature can cafionally be added to them.

Yellow Basilicum Ointment.

TAKE of yellow wax, white refin, and frankincenfe, each a quarter of a pound; melt them together over a gentle fire; den add, of hog's lard prepared, one pound. Strain the ointment while warm.

This ointment is employed for cleanfing and healing wounds and ulcers.

Ointment of Calamine.

TAKE of olive oil, a pint and a half; white wax, and calamine ftone levigated, of each half a pound. Let the calamine ftone, reduced into a fine powder, be rubbed with fome part of the oil, and afterwards added to the reft of oil and wax, previoufly melted together, continually ftirring them till quite cold.

This ointment, which is commonly known by the name of *Turner's Cerate*, is an exceeding good application in burns and excoriations, from whatever caufe.

Emollient Ointment.

TAKE of palm oil, two pounds; olive oil, a pint and a half; yellow wax, half a pound; Venice turpentine, a quarter of a pound. Melt the wax in the oils over a gentle fire; then mix in the turpentine, and strain the ointment.

This supplies the place of Altha Ointment. It may be used for anointing inflamed parts, &c.

Eye Ointment.

TAKE of hog's lard prepared, four ounces; white wax, two drachms; tutty prepared, one ounce; melt the wax with the lard over a gentle fire, and then fprinkle in the tutty, continually ftirring them till the ointment is cold.

This ointment will be more efficacious, and of a better confistence, if two or three drachms of camphor be rubbed up with a little oil, and intimately mixed with it.

Another.

TAKE of camphor, and calamine ftone levigated, each fix drachms; verdigrife well prepared, two drachms; hog's lard, and mutton fuet prepared, of each two ounces. Rub the cam-

OINTMENTS, Sc.

or well with the powder; afterwards mix in the lard and fuet, ntinuing the triture till they be perfectly united.

This ointment has been long in effeem for difeafes of the eyes. ought, however, to be used with caution, when the eyes are uch inflamed or very tender.

Issue Ointment.

Wix half an ounce of Spanish flies, finely powdered, in fix nees of yellow basilicum ointment.

This ointment is chiefly intended for dreffing blifters, in orto keep them open during pleafure.

Ointment of Lead.

TAKE of olive oil, half a pint; white wax, two ounces; fuof lead, three drachms. Let the fugar of lead, reduced ininfine powder, be rubbed up with fome part of the oil, and inwards added to the other ingredients, previoufly melted tomer, continually flirring them till quite cold.

This cooling and gently aftringent ointment may be used in cases where the intention is to dry and skin over the part, as scalding, &c.

Mercurial Ointment.

'AKE of quickfilver, two ounces; hog's lard, three ounces; ton fuet, one ounce. Rub the quickfilver with an ounce of hog's lard in a warm mortar, till the globules be perfectly nguifhed; then rub it with the reft of the lard and fuet, rioufly melted together.

he principal intention of this ointment is to convey mercury the body by being rubbed upon the fkin.

Ointment of Sulphur.

AKE of hog's lard prepared, four ounces; flowers of fulphur ounce and a half; crude fal ammoniac, two drachms; efe of lemon, ten or twelve drops. Make them into an ointt.

his ointment, rubbed upon the parts affected, will generally the itch. It is both the fafeit and best application for that ofe, and, when made in this way, has no difagreeable fmell.

APPENDIX,

White Ointment.

TAKE of olive oil, one pint; white wax and fpermaceti, of each three ounces. Melt them with a gentle heat, and keep them conftantly and brickly ftirring together, till quite cold.

If two drachms of camphor, previoufly rubbed with a fmall quantity of oil, be added to the above, it will make the White Campborated Ointment.

Liniment for Burns.

TAKE equal parts of Florence oil, or of fresh drawn linsed oil, and lime-water; shake them well together in a wide mouthed bottle, so as to form a liniment:

This is found to be an exceeding proper application for recent fcalds or burns. It may either be fpread upon a cloth, or the parts affected may be anointed with it twice or thrice a-day.

White Liniment:

THIS is made in the fame manner as the white ointment, twothirds of the wax being left out.

This liniment may be applied in cafes of excoriation, where, on account of the largeness of the furface, the ointments with lead or calamine might be improper.

Liniment for the Piles.

TAKE of emollient ointment, two ounces; liquid laudanum, half an ounce. Mix thefe ingredients with the yolk of an egg, and work them well together.

Volatile Liniment.

TAKE of Florence oil, an ounce; fpirit of hartshorn, half an ounce. Shake them together.

This liniment, made with equal parts of the fpirit and oil, will be more efficacious, where the patient's fkin is able to bear it.

Sir John Pringle obferves, that in the inflammatory quinfey, a piece of flannel, moiftened with this liniment, and applied to the throat, to be renewed every four or five hours, is one of the moft efficacious remedies; and that it feldom fails, after bleeding, either to leffen or carry off the complaint. The truth of this obfervation I have often experienced.

Camphorated Oil.

RUB an ounce of camphor, with two ounces of Florence oil, a mortar, till the camphor be entirely diffolved.

This antispalmodic liniment may be used in obstinate rheumams, and in some other cases accompanied with extreme pain d tension of the parts.

PILLS.

[EDICINES which operate in a fmall dofe, and whofe difagreeable tafte, or fmell, makes it neceffary that they fhould concealed from the palate, are most commodiously exhibited this form. No medicine, however, that is intended to operate ickly, ought to be made into pills, as they often lie for a conerable time on the ftomach before they are diffolved, fo as to oduce any effect.

As the ingredients which enter the composition of pills are gerally fo contrived, that one pill of an ordinary fize may conn about five grains of the compound, in mentioning the dofe e fhall only fpecify the number of pills to be taken; as one, to, three, &c.

Composing Pill.

TAKE of purified opium, ten grains; Castile foap, half a achm. Beat them together, and form the whole into twenty lls.

When a quieting draught will not fit upon the ftomach, e, two, or three of these pills may be taken, as occasion requires.

Fætid Pill.

TAKE of asafoctida, half an ounce; fimple fyrup, as much as neceffary to form it into pills.

In hysteric complaints, four or five pills, of an ordinary fize, ay be taken twice or thrice a-day. They may likewife be of rvice to perfons afflicted with the afthma.

When it is neceffary to keep the body open, a proper quantiof rhubarb, aloes, or jalap, may occasionally be added to the pove mass.

593

Hemlock Pill.

TAKE any quantity of the extract of hemlock, and adding to it about a fifth part its weight of the powder of the dried leaves, form it into pills of the ordinary fize.

The extract of hemlock may be taken from one grain to feveral drachms in the day. The beft method, however, of using thefe pills, is to begin with one or two, and to increase the dole gradually, as far as the patient can bear them, without any remarkable degree of stupor or giddines.

Mercurial Pill.

TAKE of purified quickfilver and honey, each half an ounce. Rub them together in a mortar, till the globules of mercury are perfectly extinguished; then add of Castile foap, two drachms, powdered liquorice, or crumb of bread, a fufficient quantity to give the mass a proper confistence for pills.

When stronger mercurial pills are wanted, the quantity of quickfilver may be doubled.

The dofe of these pills is different, according to the intention with which they are given. As an alterant, two or three may be taken daily. To raife a falivation, four or five will be necessary.

Equal parts of the above pill and powdered rhubarb made into a mais, with a fufficient quantity of fimple fyrup, will make a Mercurial Purging Pill.

Mercurial Sub'imate Pill.

DISSOLVE fifteen grains of the corrofive fublimate of mercury into two drachms of the faturated folution of crude fal ammoniac, and make it into a pafte, in a glafs mortar, with a fufficient quantity of the crumb of bread. This mafs must be formed into one hundred and twenty pills.

This pill, which is the most agreeable form of exhibiting the fublimate, has been found efficacious, not only in curing the venereal difease, but also in killing and expelling worms, after other powerful medicines had failed *.

For the venereal difeafe, four of these pills may be taken twice a-day, as an alterant three, and for worms two.

* See a paper on this subject in the Edinburgh Physical and Liter rary Essays, by the ingenious Dr John Gardiner.

PILLS.

Plummer's Pill.

TAKE of calomel, or fweet mercury, and precipitated fulur of antimony, each three drachms; extract of liquorice, two achms. Rub the fulphur and mercury well together; afterards add the extract, and, with a fufficient quantity of the acilage of gum arabic, make them into pills.

This pill has been found a powerful, yet fafe alterative in Itinate cutaneous diforders; and has completed a cure after ivation had failed. In venereal cafes it has likewife produced cellent effects. Two or three pills of an ordinary fize may be ken night and morning, the patient keeping moderately warm, d drinking after each dofe a draught of decoction of the woods, of farfaparilla.

Purging Pills.

TAKE of fuccotorine aloes, and Castile soap, each two rachms; of simple syrup, a sufficient quantity to make them to pills.

Four or five of these pills will generally prove a fufficient arge. For keeping the body gently open, one may be taken ght and morning. They are reckoned both deobstruent and omachic, and will be found to answer all the purposes of ir Anderson's pills, the principal ingredient of which is aloes.

Where aloetic purges are improper, the following pills may be fed.

Take extract of jalap, and vitriolated tartar, of each two rachms; fyrup of ginger, as much as will make them of a proer confiftence for pills.

These pills may be taken in the fame quantity as the above.

Pill for the Jaundice.

TAKE of Castile soap, succession aloes, and rhubarb, of each ne drachm. Make them into pills with a fufficient quantity of yrup or mucilage:

These pills, as their title expresses, are chiefly intended for the aundice, which, with the affistance of proper diet, they will ofen cure. Five or fix of them may be taken twice a-day, more or ess, as is necessary to keep the body open. It will be proper, nowever, during their use, to interpose now and then a vomit of pecacuanha or tartar emetic.

Stomachic Pill.

TAKE extract of gentian, two drachms; powdered rhubarb and vitriolated tartar, of each one drachm; oil of mint, thirty drops; fimple fyrup, a fufficient quantity.

Three or four of these pills may be taken twice a-day, for invigorating the stomach, and keeping the body gently open.

Squill Pills.

TAKE powder of dried fquills, a drachm and a half; gum ammoniac, and cardamom feeds, in powder, of each three drachms; fimple fyrup, a fufficient quantity.

In dropfical and afthmatic complaints, two or three of these pills may be taken twice a-day, or oftener, if the ftomach will bear them.

Strengthening Pill.

TAKE foft extract of the bark, and falt of fteel, each a drachm. Make into pills.

In diforders arising from exceflive debility, or relaxation of the folids, as the *cholorofis*, or green fickness, two of these pills may be taken three times a-day.

PLASTERS.

PLASTERS ought to be of a different confiftence, according to the purpofes for which they are intended. Such as are to be applied to the breafts or ftonrach ought to be foft and yielding; while those defigned for the limbs fhould be firm and adhefive.

It has been fuppofed, that plafters might be impregnated with the virtues of different vegetables, by boiling the recent vegetable with the oil employed for the composition of the plafter; but this treatment does not communicate to the oils any valuable qualities.

The calces of lead boiled with oils unite with them into a platter of a proper confiftence, which make the bafis of feveral other plafters. In boiling these compositions, a quantity of hot water must be added from time to time to prevent the platter from burning or growing black. This, however, should be done with care left it cause the matter to explode.

PLASTERS.

Common Plaster.

TAKE of common olive oil, fix pints; litharge reduced to a the powder, two pounds and a half. Boil the litharge and oil tother over a gentle fire, continually flirring them, and keepg always about half a gallon of water in the veffel; after they ve boiled about three hours, a little of the plafter may be taken it and put into cold water, to try if it be of a proper confiftence : nen that is the cafe, the whole may be fuffered to cool, and the iter well preffed out of it with the hands.

This plafter is generally applied in flight wounds and excoriaons of the fkin. It keeps the part foft and warm, and dends it from the air, which is all that is neceffary in fuch cafes. s principal ufe, however, is to ferve as a bafis for other afters.

Adhesive Plaster.

TAKE of common plafter, half a pound; of Burgundy pitch, a narter of a pound. Melt them together. This plafter is principally used for keeping on other dreff-

Anodyne Plaster.

g.

MELT an ounce of adhefive plaster, and, when it is cooling, mix ith it a drachm of powdered opium, and the fame quantity of imphor, previously rubbed up with a little oil.

This plafter generally gives ease in acute pains, especially of the ervous kind.

Blistering Plaster.

TAKE of Venice turpentine, fix ounces; yellow wax, two unces; Spanish flies in fine powder, three ounces; powdered nustard, one ounce. Melt the wax, and while it is warm, add o it the turpentine, taking care not to evaporate it by too much eat. After the turpentine and wax are fufficiently incorporated, prinkle in the powders, continually stirring the mass till it be old.

Though this plaster is made in a variety of ways; one feldom neets with it of a proper confistence. When compounded with ils and other greafy fubftances, its effects are blunted, and it is pt to run; while pitch and refin render it too hard and very inonvenient.

When the bliftering plafter is not at hand, its place may be fupplied by mixing with any foft ointment a fufficient quantity of powdered flies; or by forming them into a pafte with flour and vinegar.

Gum Plaster.

TAKE of the common plafter, four pounds; gum ammoniac and galbanum, ftrained, of each half a pound. Melt them together, and add, of Venice turpentine, fix ounces.

This plafter is used as a digestive, and likewise for discussing indolent tumours.

Mercurial Plaster.

TAKE of common plaster, one pound ; of gum ammoniac, strained, half a pound. Melt them together, and, when cooling, add eight ounces of quick-filver, previously extinguished by triture, with three ounces of hog's lard.

This plafter is recommended in pains of the limbs arifing from a venereal caufe. Indurations of the glands, and other violent tumours are likewife found fometimes to yield to it.

Stomach Plaster.

TAKE of gum plaster, half a pound; camphorated oil, an ounce and a half; black pepper, or capficum, where it can be had, one ounce. Melt the plaster, and mix with it the oil; then fprinkle in the pepper, previously reduced to a fine powder.

An ounce or two of this plafter, fpread upon foft leather, and applied to the region of the ftomach, will be of fervice in flatulencies arifing from hyfteric and hypochondriac affections. A little of the expressed oil of mace, or a few drops of the effential oil of mint, may be rubbed upon it before it is applied.

This may fupply the place of the Antibysleric Ploster.

Warm Plaster.

TAKE of gum plaster, one ounce; blistering plaster, two drachms. Melt them together over a gentle fire.

This plafter is useful in the fciatica and other fixed pains of the rheumatic kind : it ought, however, to be worn for fome time, and to be renewed, at leaft, once a-week. If this is found to blifter the part, which is fometimes the cafe, it must be made with a fmaller proportion of the bliftering plafter.

POWDERS.

Wax Plaster.

¹AKE of yellow wax, one pound ; white refin, half a pound ; ton fuet, three quarters of a pound. Melt them together. This is generally used instead of the *Melilot Plaster*. It is a per application after blisters, and in other cases, where a gentle offive is necessfary.

POWDERS.

HIS is one of the most fimple forms in which medicine can be administered. Many medicinal substances, however, canbe reduced into powder, and others are too difagreeable to be en in this form.

The lighter powders may be mixed in any agreeable thin lior, as tea or water-gruel. The more ponderous will rere a more confiftent vehicle, as fyrup, conferve, jelly, or ey.

dums, and other fubftances which are difficult to powder, and be pounded along with the drier ones; but those which too dry, especially aromatics, ought to be sprinkled during r pulverization with a few drops of any proper water.

Aromatic powders are to be prepared only in fmall quantiat a time, and keep in glafs veffels clofely ftopped. Inid, no powders ought to be exposed to the air, or kept too g, otherwife their virtues will be in great measure deftroy-

Astringent Powder.

AKE of alum and Japan earth, each two drachms. Pound m together, and divine the whole into ten or twelve doses. n an immoderate flow of the *menses*, and other hæmorrhages, of these powders may be taken every hour, or every half-hour, he discharge be violent.

Powder of Bole.

CAKE of bole armenic, or French bole, two ounces; cinnamon, ounce; tormentil root and gum arabic, of each fix drachms; g pepper, one drachm. Let all these ingredients be reduced) a powder.

This warm, glutinous aftringent powder, is given in fluxes, other diforders where medicines of that clafs are neceffary, in dofe of a fcruple or half a drachm.

If a drachm of opium be added, it will make the *Powder of Bole* with Opium, which is a medicine of confiderable efficacy. It may be taken in the fame quantity as the former, but not above twice or thrice a day.

Carminative Powder.

TAKE of coriander-seed, half an ounce; ginger one drachm; nutmegs, half a drachm; fine fugar, a drachm and a half. Reduce them into powder for twelve doses.

This powder is employed for expelling flatulencies arising from indegeftion, particularly those to which hysteric and hypochondriac perfons are fo liable. It may likewife be given in fmall quantities to children in their food, when troubled with gripes.

Diuretic Powder.

TAKE of gum arabic, four ounces; purified nitre, one ounce. Pound them together, and divide the whole into twenty-four dofes.

During the first stage of the venereal difease, one of these cooling powders may be taken three times a-day, with confiderable advantage.

Aromatic Opening Powder.

TAKE of the best Turkey rhubarb, cinnamon, and fine fugar, each two drachms. Let the ingredients be pounded, and afterwards mixed well together.

Where flatulency is accompanied with coftivnefs, a tea-fpoonful of this powder may be taken once or twice a day, according to circumstances.

Saline Laxative Powder.

TAKE of foluble tartar, and cream of tartar, each one drachm; purified nitre, half a drachm. Make them into a powder.

In fevers and other inflammatory diforders, where it is neceffary to keep the body gently open, one of these cooling laxative powders may be taken in a little gruel, and repeated occafionally.

POWDERS.

Steel Powder.

TAKE filings of steel, and loaf-fugar, of each two ounces; nger two drachms. Pound them together.

In obstructions of the *menses*, and other cafes where steel is oper, a tea-spoonful of this powder may be taken twice a-day, d washed down with a little wine or water.

Sudorific Powder.

TAKE purified nitre and vitriolated tartar of each half an ounce; ium and ipecacuanha, of each one drachm. Mix the ingrediits, and reduce them to a fine powder.

This is generally known by the name of *Dover's Powder*. It a powerful fudorific. In obstinate rheumatisms, and other fes where it is necessary to excite a copious fweat, this powar may be administered in the dose of a foruple, or half a achm. Some patients will require two foruples. It ought to accompanied with the plentiful use of fome warm diluting litor.

Worm-Powder.

TAKE of tin reduced into a fine powder, an ounce; Æthiop's ineral, two drachms. Mix them well together, and divide the hole into fix dofes.

One of these powders may be taken in a little fyrup, honey, treacle, twice a-day. After they have been all used, the folwing anthelmintic purge may be proper.

Purging Worm-Powder.

TAKE of powdered rhubarb, a fcruple; fcammomy and caloel, or each five grains. Rub them together in a mortar for ne dofe.

For children the above dofes must be leffened according to their age.

If the powder of tin be given alone, its dofe may be confidrably increased. The late Dr Alfton gave it to the amount if two ounces in three days, and fays, when thus administered, nat it proved an egregious anthelmintic. He purged his paents both before they took the powder and afterwards.

Powder for the Tape-Worm.

EARLY in the morning the patient is to take in any liquid, two or three drachms, according to his age and conflictation, of the root of the male fern reduced into a fine powder. About two hours afterwards, he is to take of calomel and refin of fcammomy, each ten grains; gum gamboge, fix grains. Thefe ingredients muft be finely powdered and given in a little fyrup, honey, treacle, or any thing that is moft agreeable to the patient. He is then to walk gently about, now and then drinking a difh of weak green tea, till the worm is paffed. If the powder of the fern produces naufea, or ficknefs, it may be removed by fucking the juice of an orange or lemon.

This medicine, which had been long kept a fecret abroad for the cure of the tape-worm, was fome time ago purchafed by the French King, and made public for the benefit of mankind. Not having had an opportunity of trying it, I can fay nothing from experience concerning its efficacy. It feems, however, from its ingredients, to be an active medicine, and ought to be taken with care. The dofe here prefcribed is fufficient for the ftrongeft patient; it muft, therefore, be reduced according to the age and conflitution.

SYRUPS.

SYRUPS were fometime ago looked upon as medicines of confiderable value. They are at prefent; however, regarded chiefly as vehicles for medicines of greater efficacy, and are ufed for fweetening draughts, juleps, or mixtures; and for reducing the lighter powders into bolufes, pills, and electuaries As all thefe purpofes may be anfwered by the fimple fyrup alone, there is little occafion for any other; elpecially as they are feldom found but in a flate of fermentation; and as the dofe of any medicine given in this form is very uncertain. Perfons who ferve the public muft keep whatever their cuftomers call for; but to the private practitioner nine-tenths of the fyrup ufually kept in the fhops are unneceffary:

Simple Syrup.

Is made by diffolving in water, either with or without heat, about double its weight of fine fugar.

If twenty-five drops of laudanum be added to an ounce of the fimple fyrup, it will fupply the place of diacodium, or the rup of poppies, and will be found a more fafe and certain edicine.

The lubricating virtues of the fyrup of marshmallows may likefe be supplied, by adding to the common fyrup a sufficient intity of mucilage gum arabic.

Those who chuse to preferve the juice of lemons in form of up, may diffolve in it, by the heat of a warm bath, nearly uble its weight of fine sugar. The juice ought to be previously ained, and suffered to stand till it settles.

The fyrup of ginger is fometimes of use as a warm vehicle giving medicines to perfons afflicted with flatulency. It may made by infufing two ounces of bruifed ginger in two pints of iling water for twenty-four hours. After the liquor has been ained, and has flood to fettle for fome time, it may be pouroff, and a little more than double its weight of fine powdered gar diffolved in it.

TINCTURES, ELIXIRS, &c.

• ECTIFIED fpirit is the direct menftruum of the refins and • effential oils of vegetables, and totally extracts these active inciples from fundry fubitances, which yield them to water, ther not at all, or only in part.

It diffolves likewife those parts of animal fubftances, in which eir peculiar fmells and taftes refide. Hence the tinctures prered with rectified fpirits from an ufeful and elegant class of edicines, poffelling many of the most effential virtues of fimes, without being clogged with their inert or ufeles parts.

Water, however, being the proper menftruum of the gummy, line, and faccharine parts of medicinal fubitances, it will be ceffary, in the preparation of feveral tinctures, to make use of weak fpirit, or a composition of rectified spirit and water.

Aromatic Tincture.

INFUSE two ounces of Jamaica pepper in two pints of brandy ithout heat, for a few days; then strain off the tincture.

This fimple tincture will fufficiently answer all the intentions the more costly preparations of this kind. It is rather too to be taken by itself; but is very proper for mixing with ch medicines as might otherwise prove too cold for the stoach.

Compound Tincture of the Bark.

TAKE of Peruvian bark, two ounces; Seville orange-peel and cinnamon, of each half an ounce. Let the bark be powdered, and the other ingredients bruifed; then infufe the whole in a pint and a half of brandy, for five or fix days, in a clofe veffel; afterwards ftrain off the tincture.

This tincture is not only beneficial in intermitting fevers, but alfo in the flow, nervous, and putrid kinds, efpecially towards their decline.

The dofe is from one drachm to three or four, every fifth or fixth hour. It may be given in any fuitable liquor, and occafionally fharpened with a few drops of the fpirit of vitriol.

Volatile Fætid Tincture.

INFUSE two ounces of alafœtida in one pint of volatile aromatic fpirit, for eight days, in a clofe bottle, frequently shaking it; then strain the tincture.

This medicine is beneficial in hysteric diforders, especially when attended with lowness of spirits, and faintings. A teaspoonful of it may be taken in a glass of wine, or a cup of penny-royal tea.

Volatile Tincture of Gum Guaiacum.

TAKE of gum guaiacum four ounces; volatile aromatic spirit, a pint. Infuse without heat, in a vessel well stopped, for a few days; then strain off the tincture *.

In rheumatic complaints, a tea-fpoonful of this tincture may be taken in a cup of the infusion of water-trefoil, twice or thrice a-day.

Tincture of Black Hellebore.

INFUSE two ounces of the roots of black hellebore, bruifed, in a pint of proof fpirit, for feven or eight days; then filter the tincture through paper. A fcruple of cochineal may be infufed along with the roots, to give the tincture a colour.

In obstructions of the menses, a tea spoonful of this tincture may be taken in a cup of camomile or penny-royal tea twice a-day.

* A very good tincture of guaiacum, for domestic use, may be made by infusing two or three ounces of the gum in a bottle of rum or brandy.

TINCTURES, &c.

Astringent Tincture.

HGEST two ounces of gum kino, in a pint and a half of branfor eight days; afterwards ftrain it for use.

This tincture, though not generally known, is a good aftrinmedicine. With this view, an ounce, or more of it may be in three or four times a-day.

Tincture of Myrrh and Aloes.

AKE of gum myrrh, an ounce and a half; hepatic aloes, one ce. Let them be reduced to a powder, and infufed in two is of rectified fpirits, for fix days, in a gentle heat; then strain tincture.

This is principally used by furgeons for cleaning foul ulcers, restraining the progress of gangrenes. It is also by some, reimended as a proper application to green wounds.

Tincture of Opium, or Liquid Laudanum.

AKE of crude opium, two ounces; fpirituous aromatic water fountain wine, of each ten ounces. Diffolve the opium, fliced, he wine, with a gentle heat, frequently ftirring it; afterwards the fpirit, and ftrain off the tincture.

as twenty-five drops of this tincture contain about a grain opium, the common dole may be from twenty to thirty ps.

Sacred Tincture, or Tincture of Hiera Piera.

TAKE of fuccotorine aloes in powder, one ounce; Virginian ke root and ginger, of each two drachms. Infule in a pint nountain wine, and half a pint of brandy, for a week, frequenthaking the bottle, then ftrain off the tindure.

This is a fafe and useful purge for perfons of a languid and egmatic habit; but is thought to have better effects, taken in all dofes as a laxative.

The dofe, as a purge, is from one to two ounces.

Compound Tincture of Senna.

TAKE of fenna, one ounce; jalap, coriander feeds, and cream tartar, of each half an ounce. Infuse them in a pint and a half French brandy for a week; then strain the tincture, and add it four ounces of fine sugar.

APPENDIX.

This is an agreeable purge, and anfwers all the purposes of the *Elexir falutis*, and of *Daffy's Elixir*.

The dofe is from one to two or three ounces.

Tincture of Spanish Flies.

TAKE of Spanish flies, reduced to a fine powder, two ounces; spirit of wine, one pint. Infuse for two or three days; then strain off the tincture.

This is intended as an acrid ftimulant for external use. Parts affected with the palfy or chronic rheumatism may be frequently rubbed with it.

Tincture of the Balsam of Tolu.

TAKE of the balfam of Tolu, an ounce and a half; rectified fpirit of wine, a pint. Infufe in a gentle heat until the balfam is diffolved; then ftrain the tincture.

This tincture poffeffes all the virtues of the balfam. In coughs, and other complaints of the breaft, a tea-fpoonful or two of it may be taken in a bit of loaf-fugar. But the beft way of using it is in fyrup. An ounce of the tincture, properly mixed with two pounds of fimple fyrup, will make what is commonly called the *Balfamic* Syrup.

Tincture of Rhubarb.

TAKE of rhubarb, two ounces and a half; leffer cardamom feeds, half an ounce; brandy, two pints. Digeft for a week, and ftrain the tincture.

Those who chuse to have a vinous tincture of rhubarb may infuse the above ingredients in a bottle of Lisbon wine, adding to it about two ounces of proof spirits.

If an ounce of gentian root, and a drachm of Virginian fnakeroot be added to the above ingredients, it will make the bitter tincture of rhubarb.

All thefe tinctures are defigned as ftomachics and corroborants as well as purgatives. In weaknefs of the ftomach, indigeftion, laxity of the inteftines, fluxes, cholicky and fuch like complaints, they are frequently of great fervice. The dofe is from half a fpoonful to three or four fpoonfuls or more, according to the circumftances of the patient, and the purpofes it is intended to anfwer.

ELIXIR.

Paregoric Elixir.

AKE of flowers of benzoin, half an ounce; opium, two ams. Infufe in one pound of the volatile aromatic fpirit, four we days, frequently shaking the bottle; afterwards strain the

nis is an agreeable and fafe way of administering the opium. fes pain, allays tickling coughs, relieves difficult breathing, is ufeful in many diforders of children, particularly the hoopcough.

ne dole to an adult is from fifty to a hundred drops.

Sacred Elixir.

AKE of rhubarb cut fmall, ten drachms; fuccotorine aloes, owder, fix drachms; leffer cardamom feeds, half an ounce; ch brandy, two pints. Infufe for two or three days, and ftrain the elixir.

his ufeful ftomachic purge may be taken from one ounce to an e and a half.

Stomachic Elixir.

AKE of gentian root, two ounces; Curaffao oranges, one e; Virginian fnake-root, half an ounce. Let the ingredients oruifed, and infufed for three or four days in two pints of ch brandy; afterwards ftrain out the elixir.

his is an elegant ftomachic bitter. In flatulencies, indigeftion, of appetite, and fuch like complaints, a fmall glafs of it may iken twice a-day. It likewife relieves the gout in the ftomach, n taken in a large dofe.

Acid Elixir of Vitriol.

AKE of the aromatic tincture, one pint; oil of vitriol, three es. Mix them-gradually, and after the fæces have tubfided, the elixir through paper, in a glafs funnel.

his is one of the bett medicines which I know for hyfteric and ochondriac patients, afflicted with flatulencies arifing from ation or debility of the ftomach and inteftines It will fucwhere the most celebrated ftomachic bitters have no effect. dole is from ten to forty drops, in a glafs of wine, or water, cup of any bitter infusion, twice or thrice a-day. It thousd ken when the ftomach is most empty.

APPENDIX.

Camphorated Spirit of Wine.

DISSOLVE an ounce of camphor in a pint of rectified fpirits.

This folution is chiefly employed as an embrocation in bruifes, palfies, the chronic rheumatifm, and for preventing gangrenes.

The above quantity of camphor, diffolved in half a pound of the volatile aromatic fpirit, makes Ward's Effence.

Spirit of Mindererus.

TAKE of volatile fal ammonic, any quantity. Pour on it gradually diftilled vinegar, till the effervescence ceases.

This medicine is useful in promoting a discharge both by the skin and urinary passages. It is also a good external application in strains and bruises.

When intended to raife a fweat, half an ounce of it in a cup of warm gruel may be given to the patient in bed every hour till it has the defired effect.

VINEGAR.

VINEGAR is an acid produced from vinous liquors by a fecond fermentation. It is an ufeful medicine both in inflammatory and putrid diforders. Its effects are, to cool the blood, quench thirft, counteract a tendency to putrefaction, and allay inordinate motions of the fystem. It likewife promotes the natural fecretions, and in fome cafes excites a copious fweat, where the warm medicines, called alexipharmic, tend rather to prevent that falutary evacuation.

Weaknefs, faintings, vomitings, and other hyfteric affections, are often relieved by vinegar applied to the mouth and nofe, or received into the ftomach. It is of excellent use alfo in correcting many poifonous fubftances, when taken into the ftomach : and in promoting their expulsion, by the different emunctories, when received into the blood.

Vinegar is not only an ufeful medicine, but ferves likewife to extract, in tolerable perfection, the virtues of feveral other medical fubitances. Most of the odoriferous flowers impart to it their fragrance, together with a beautiful purplish or red colour. It also affists or coincides with the intention of fquills, garlic, gum ammoniac, and feveral other valuable medicines.

These effects, however, are not to be expected from every thing that is fold under the name of vinegar, but from fuch as is found and well prepared.

The best vinegars are those prepared from French wines.

VINEGARS.

t is neceffary for fome purpofes that the vinegar be diffilled; as this operation requires a particular chemical apparatus, fhall not infert it.

Vinegar of Litharge.

TAKE of litharge, half a pound; ftrong vinegar, two pints. use them together in a moderate heat for three days, frequenthaking the veffel; then filter the liquor for use.

This medicine is little ufed, from a general notion of its bedangerous. There is reafon, however, to believe, that the parations of lead with vinegar are poffeffed of fome valuable perties, and that they may be ufed in many cafes with fafety l fuccefs.

A preparation of a fimilar nature with the above, has of late n extolled by Goulard, a French Surgeon, as a fafe and exfively ufeful medicine, which he calls the *Extract of Saturn*, l orders to be made in the following manner:

Take of litharge, one pound; vinegar made of French wine, p pints. Put them together into a glazed earthen pipkin l let them boil, or rather fimmer, for an hour, or an hour i a quarter, taking care to ftir them all the while with a woodfpatula. After the whole has flood to settle, pour off the ior which is upon the top into bottles for ufe.

With this extract Goulard makes his vegeto mineral-water, * ich he recommends in a great variety of external dilorders, nflammations, burns, bruifes, fprains, ulcers, &c.

Ie likewise prepares with it a number of other forms of meine, as poultices, plasters, ointments, powders, &e.

Vinegar of Roses.

CAKE of red roles, half a pound; ftrong vinegar, half a gal-. Infuse in a close vessel for several weeks, in a gentle heat;

then strain off the liquor. This is principally used as an embrocation for head-achs, &c.

Vinegar of Squills.

TAKE of dried fquills, two ounces; diftilled vinegar, two. ts. Infuse for ten days or a fortnight in a gentle degree of t, afterwards strain off the liquor, and add to it about a lifth part its quantity of proof spirits.

This medicine has good effects in diforders of the breaft, oc-

* See Collyrium of Lead. 4 H

APPENDIX.

cafioned by a load of vifcid phlegm. It is also of use in hydropic cases for promoting a discharge of urine.

The dofe is from two drachms to two ounces, according to the intention for which it is given. When intended to act as a vomit, the dofe ought to be large. In other cafes it must not only be exhibited in fmall dofes, but also mixed with cinnamon water, or fome other agreeable aromatic liquor to prevent the naufea it might otherwife occasion.

WATERS BY INFUSION, &c.

Lime Water.

POUR two gallons of water gradually upon a pound of fresh burnt quicklime; and when the ebullition ceases, ftir them well together; then fuffer the whole to stand at rest that the lime may fettle, and afterwards filter the liquor through paper which is to be kept in vessels closely stopt.

The lime water from calcined oyfter-fhells, is prepared in the fame manner.

Lime-water is principally used for the gravel; in which cafe, from a pint to two or more of it may be drunk daily. Externally it is used for washing foul ulcers, and removing the itch, and other difeases of the skin.

Compound Lime Water.

TAKE shavings of guaiacum wood, half a pound; liquorice root, one ounce; fassafras bark, half an ounce; coriander seeds, three drachms; simple lime-water, fix pints.

Infufe without heat for two days, and then ftrain off the liquor. In the fame manner may lime-water be impregnated with the virtues of other vegetable fubftances. Such impregnation not only renders the water more agreeable to the palate, but alfo 2 more efficacious medicine, efpecially in cutaneous diforders, and foulnefs of the blood and juices.

It may be taken in the fame quantity as the fimple water.

Sublimate Water.

DISSOLVE eight grains of the corrofive fublimate in a pint of cinnamon-water.

If a stronger solution is wanted, a double or triple quantity of fublimate may be used.

The principal intention of this is to cleanfe foul ulcers, and confume proud flefh.

Styptic Water.

AKE of blue vitriol and alum, each an ounce and a half; r, one pint. Boil them until the falts are diffolved, then the liquor, and add to it a drachm of the oil of vitriol. his water is ufed for ftopping a bleeding at the nofe, and r hæmorrhages; for which purpofe cloths or doffils dipt in uft be applied to the part.

Tar Water.

OUR a gallon of water on two pounds of Norway tar, and ftir in ftrongly together with a wooden rod : after they have ftood ettle for two days, pour off the water for ufe.

Though tar-water falls greatly flort of the character which has n given of it, yet it poffeffes fome medicinal virtues. It feny raifes the pulfe, increafes the fecretions, and fometimes ns the body, or occafions vomiting.

A pint of it may be drunk daily, or more, if the ftomach can r it. It is generally ordered to be taken on an empty ftoch, viz. four ounces morning and evening, and the fame quanabout two hours after breakfaft and dinner.

SIMPLE DISTILLED WATERS.

GREAT number of diffilled waters were formerly kept in the fhops, and are ftill retained in fome Difpenfatories. But confider them chiefly in the light of grateful diluents, fuite vehicles for medicines of greater efficacy, or for rendering guftful ones more agreeable to the palate and ftomach. We ll therefore infert only a few of thofe which are beft adapted thefe intentions.

The management of a ftill being now generally underftood, it needlefs to fpend time in giving directions for that purpofe.

Cinnamon Water.

STEEP one pound of cinnamon bark, bruifed, in a gallon and a lf of water, and one pint of brandy, for two days; and then diftil f one gallon.

This is an agreeable aromatic water, poffeffing in a high deee the fragrance and cordial virtues of the fpice.

Pennyroyal Water.

TAKE of pennyroyal leaves, dried, a pound and a half; water from a gallon and a half to two gallons. Draw off by diftillation one gallon.

This water poffeffes, in a confiderable degree, the fmell, tafte, and virtues of the plant. It is given in mixtures and juleps to hyfteric patients.

A infusion of the herb in boiling water answers nearly the fame purposes.

Peppermint Water.

THIS is made in the fame manner, as the preceding.

Spearmint Water.

THIS may also be prepared in the fame way as the pennyroyal water.

Both thefe are ufeful ftomachic waters, and will fometimes relieve vomiting, efpecially when it proceeds from indigefiion or cold vifcid phlegm. They are likewife ufeful in fome colicky complaints, the gout in the ftomach, &c. particularly the peppermint water.

An infusion of the fresh plant is frequently found to have the fame effects as the diffilled water.

Rose Water.

TAKE of rofes fresh gathered, fix pounds; water, two gallons. Distil off one gallon.

This water is principally valued on account of its fine flavour.

Jamaica Pepper Water.

TARE of Jamaica pepper, half a pound ; water, two gallons and a half. Diftil off one gallon.

This is a very elegant diffilled water, and may in most cafes fupply the place of the more costly fpice waters.

SPIRITUOUS DISTILLED WATERS.

Spirituous Cinnamon Water.

AKE of cinnamon bark, one pound; proof fpirit, and common water, of each one gallon. Steep the cinnamon in the lifor two days; then diftil off one gallon.

Spirituous Jamaica Pepper Water.

AKE of Jamaica pepper, half a pound; proof fpirit, three ons; water, two gallons. Diftil off three gallons. This is a fufficiently agreeable cordial, and may fupply the place the Aromatic Water.

WHEYS.

Alum Whey.

DIL two drachms of powdered alum in a pint of milk till it is curdled; then ftrain out the whey.

This whey is beneficial in an immoderate flow of the menses, in a diabetes, or exceffive difcharge of urine.

The dofe is two, three, or four ounces, according as the ftoth will bear it, three times a-day. If it fhould occafion vomit-, it may be diluted.

Mustard Whey.

CAKE milk and water, of each a pint; bruifed muftard feed, ounce and a half. Boil them together till the curd is perfectieparated; afterwards ftrain the whey through a cloth.

This is the most elegant, and by no means the least efficaus method of exhibiting mustard. It warms and invigorates habit, and promotes the different fecretions. Hence, in the fate of nervous fevers, it will often fupply the place of ne. It is also of use in the chronic rheumatism, palsy, dropfy, The addition of a little fugar will render it more agree-

The dofe is an ordinary tea-cupful four or five times a-day.

Scorbutic Whey.

THIS whey is made by boiling half a pint of the fcorbutic juices a quart of cow's milk. More benefit, however, is to be

APPENDIX.

expected from eating the plants, than from their expressed juices.

The fcorbutic plants are, bitter oranges, brooklime, garden fcurvy-grafs, and water-creffes.

A number of other wheys may be prepared nearly in the fame manner, as orange whey, cream of tartar whey, &c. Thefe are cooling pleafant drinks in fevers, and may be rendered cordial, when neceffary, by the addition of wine.

WINES.

THE effects of wine are, to raife the pulle, promote perfpiration, warm the habit, and exhilarate the fpirits. The red wines, befides thefe effects, have an aftringent quality, by which they ftrengthen the tone of the ftomach and inteffines, and by this means prove ferviceable in reftraining immoderate fecretions.

The thin tharp wines have a different tendency. They pass off freely by the different emunctories, and gently open the body. The effects of the full bodied wines are, however, much more durable than those of the thinner.

All fweet wines contain a glutinous fubftance, and do not pass off freely. Hence they will heat the body more than an equal quantity of any other wine, though it fhould contain fully as much fpirit.

From the obvious qualities of wine, it must appear to be an excellent cordial medicine. Indeed, to fay the truth, it is worth all the rest put together.

But to answer this character, it must be found and good. No benefit is to be expected from the common trash that is often fold by the name of wine, without possessing one drop of the juice of the grape. Perhaps no medicine is more rarely obtained genuine than wine.

Wine is not only ufed as a medicine, but is alfo employed as a menstruum for extracting the virtues of other medicinal iubitances; for which it is not ill adapted, being a compound of water, inflammable fpirit, and acid; by which means it is enabled to act upon vegetable and animal fubitances, and alfo to diffolve fome bodies of the metallic kind, fo as to impregnate itfelf with their virtues, as fteel, antimony, &c.

Anthelmintic Wine.

TAKE of rhubarb, half an ounce; worm-feed, an ounce.--Bruife them, and infuse without heat in two pints of red port wine for a few days, then strain off the wine.

As the ftomachs of perfons afflicted with worms are always

WINES.

litated, red wine alone will often prove ferviceable : it muft, ever, have ftill better effects when joined with bitter and purre ingredients, as in the above form.

glass of this wine may be taken twice or thrice a-day.

Antimonial Wine.

TAKE glafs of antimony, reduced to a fine powder, half an ce; Lifbon wine, eight ounces. Digeft, without heat, for e or four days, now and then fhaking the bottle; afterwards the wine through paper.

he dole of this wine varies according to the intention. As an ative and diaphoretic, it may be taken from ten to fifty or drops. In a larger dole it generally proves cathartic, or exvomiting.

Bitter Wine.

AKE of gentian root, yellow rind of lemon-peel, fresh, each ounce; long pepper, two drachms; mountain wine, two 3. Infuse without heat for a week, and strain out the wine afe.

1 complaints arifing from weaknefs of the ftomach, or indion, a glafs of this wine may be taken an hour before dinner fupper.

Ipecacuanha Wine.

AKE of ipecacuanha, in powder, one ounce; mountain wine, nt. Infuse for three or four days; then filter the tincture. his is a fase vomit, and answers extremely well for such peras cannot swallow the powder, or whose stomaches are too able to bear it.

he dofe is from one ounce to an ounce and a half.

Chalybeate, or Steel Wine.

AKE filings of iron, two ounces; cinnamon and mace, of each drachms; Rhenish wine, two pints. Infuse for three or weeks, frequently shaking the bottle; then pass the wine ugh a filter.

n obstructions of the menses, this preparation of iron may be n, in the dose of half a wine glass twice or thrice a-day.

'he medicine would probably be as good if made with Lifbon e, fharpened with half an ounce of the cream of tartar, or a ll quantity of the vitriolic acid.

APPENDIX.

Stomach Wine.

TAKE of Peruvian bark, großsly powdered, an ounce; cardamum feeds, and orange peel, bruifed, of each two drachms. Infuse in a bottle of white port or Lisbon wine for five or fix days; then strain off the wine.

This wine is not only of fervice in debility of the ftomach and inteffines, but may alfo be taken as a preventive, by perfons liable to the intermittent fever, or who refide in places where this difeafe prevails. It will be of ufe likewife to those who recover flowly after fevers of any kind, as it affifts digeftion, and helps to reftore the tone and vigour of the fystem.

Cartiforne mind an

A glafs of it may be taken two or three times a-day.

GLOSSARY.

LTHOUGH terms of art have been sedulously avoided in the comtion of this treatise, it is impossible entirely to banish technical phrashen writing on Medicine, a science that has been less generally attendy mankind, and continues therefore to be more affected with the jargon te schools than perhaps any other. Several persons having expressed their ion that a Glossary would make this work more generally intelligible, following concise explanation of the few terms of art that occur, has added in compliance with their sentiments, and to fulfil the original ation of this treatise, by rendering it intelligible and useful to all ranks classes of mankind.

omen. The belly.

ne secreted fluids from the various cavities into the mass of blood. mony. Corrosive sharpness.

A

e. A disease, the symptoms of which are violent, and tend to a speedy ermination, is called acute.

It. Of mature age.

st. Dry, warm.

spasmodic. Whatever tends to prevent or remove spasm.

thæ. Small whitish ulcers appearing in the mouth.

riction. A tightening, or lessening.

ibilarian. An epithet commonly applied to people of a certain tempeiment, marked by a dark complexion, black hair, spare habit, &cc. which the ancients supposed to arise from the *atra bilis*, or the black ile.

, or Gall. A fluid which is secreted by the liver into the gall-bladder, nd from thence passes into the intestines, in order to promote diestion. Cacoobymie. An unhealthy state of the body.

Caries. A rottenness of a bone.

Chyle. A milky fluid, separated from the aliment in the intestines, and conveyed by the absorbents into the blood, to supply the waste of the animal body.

Chronic. A disease whose progress is slow, in opposition to acute.

Circulation. The motion of the blood, which is driven by the heart through the arteries, and returns by the veins.

Comatose. Sleepy.

Conglobate Gland. A simple gland.

Conglomorate. A compound gland.

Contagion. Infectious matter.

Cutis. The skin.

Cutaneous. Of, or belonging to the skin.

Crisis. A certain period in the progress of a disease, from whence a decided alteration either for the better or the worse takes place.

Critical. Decisive or important.

Critical days. The fourth, fifth, seventh, ninth, eleventh, thirteenth, fourteenth, seventeenth, and twenty-first, are by some authors denominated critical days, because febrile complaints have been observed to take a decisive change at these periods.

D

Debility. Weakness.

Delirium. A temporary disorder of the mental faculties.

Diaphragm. A membrane separating the cavity of the chest from that of the belly.

Diuretic. A medicine that promotes the secretion of urine.

Drastic. Is applied to such purgative medicines as are violent or harsh in their operation.

E

Empyema. A collection of purulent matter in the cavity of the breast. Endemic. A disease peculiar to a certain district of country. Epidemic. A disease generally infectious. Exacerbation. The increase of any disease.

F

Faces. Excrements.

Factid. Emitting an offensive smell.

Fætus. The child before birth, or when born before the proper period, is thus termed.

Flatulent. Producing wind.

Fungus. Proud flesh.

GLOSSARY.

Stream of Government and a straight

grene. Mortification.

mata. ? Venereal excrescences.

glia. mastic. Exercise taken with a view to preserve or restore health .--he ancient physicians reckoned this an important branch of medicine.

H

tic Fever. A slow consuming fever, generally attending a bad habit I body, or some incurable and deep rooted disease.

morrhoids. The piles.

morrhage. Discharge of blood.

ochondriacism. Low spirits.

ochondrisc viscera. The liver, spleen, &c. so termed from their sitution in the hypochondriac, or upper and lateral parts of the belly.

T

pr. Thin bad matter. osthume. A collection of purulent matter. ammation. A surcharge of blood, and an increased action of the vesels in any particular part of the body.

L

ature. Bandage. wum. Ley.

M

Viary Eruption. Eruption of small pustules, resembling the seeds of Millet.

rbific. Causing disease, or diseased.

ucus. The matter discharged from the nose, lungs, &c. ysentery. A double Membrane, which connects the intestines to the back bone.

N

rvous. Irritable. usea. An inclination to vomit. des. Enlargements of the bones, produced by the venereal disease.

P

ectoral. Medicines adapted to cure diseases of the breast. elvis. The bones situated at the lower part of the trunk; thus named from their resembling in some measure a bason. critonæum. A membrane lining the cavity of the belly, and covering the intestines.

2

GLOSSARY.

Pericardium. Membrane containing the heart.

Perspiration. The matter discharged from the pores of the skin, in form of vapour or sweat.

Phlogiston. Is here used to signify somewhat rendering the air unfit for the purposes of respiration.

Phlegmatic. Watery, relaxed.

Plethoric. Replete with blood,

Polypus. A diseased excrescence, or a substance formed of coagulable lymph, frequently found in the large blood vessels.

Pus. Matter contained in a boil.

R

Regimen. Regulation of diet. Rectum. The straight gut, in which the forces are contained. Respiration. The act of breathing.

S

Saliva. The fluid secreted by the glands of the mouth.
Sanies. A thin bad matter, discharged from an ill conditioned sore.
Schirrbous. A state of diseased hardness.
Slough. A part separated, and thrown off by suppuration.
Spasm. A diseased contraction.
Spine. The back bone.
Styptic. A medicine for stopping the discharge of blood.

Syncope. A fainting fit, attended with a complete abolition of sensation

and thought.

T

Tabes. A species of consumption.

Temperament. A peculiar habit of body, of which there are generally reckoned four, viz. the sanguine, the bilious, the melancholic, and the phlegmatic.

U

Vertigo. Giddiness.

Ulcer. An ill conditioned sore.

Ureters. Two long and small canals, which convey the urine from the kidneys to the bladder.

Urethra. The canal which conveys the urine from the bladder.

INDEX.

BLUTIONS, Jewish and Mahometan, well calculated for the preservation of health, 110.

bortion, causes and symptoms of, 461. Means of prevention, ibid. Proper treatment in the case of, 462.

scesses, how to be treated, 278, 494.

ccidents. See Casualties.

rids, of peculiar service in consumptions, 176. In putrid fevers, 189. Not suitable to the measles, 224.

cidities in the bowels of infants, the origin of, 474. Method of cure, 475. *ckworth*, foundling hospital at, cause of the children there being afflicted with scabbed heads, and fatal consequences of their ill treatment, 480. *note*.

Idison, his remarks on the luxury of the table, 103.

ther, very serviceable in removing fits of the asthma, 360. Is excellent for flatulencies, 389.

Ithiops mineral, strongly recommended by Dr Cheyne in inflammations of the eyes, 241.

fricans, their treatment of children, 33. note.

garic of the oak, its merit as a styptic, 498. Method of gathering, preparing, and applying it, *ibid. note.*

griculture, a healthful, constant, and profitable employment, 65. Is too much neglected in favour of manufactures, *ibid*. Gardening the most wholesome amusement for sedentary persons, 69.

gue, a species of fever no person can mistake, and the proper medicine for, generally known, 147. Causes of, *ibid*. Symptoms, *ibid*. Regimen for, 148. Under a proper Regimen will often go off without medicine, 149. Medical treatment of, *ibid*. Often degenerates into obstinate chronical diseases, if not radically cured, 152. Peruvian bark the only medicine to be relied on in, 153. Children, how to be treated in, 154. Preventive medicine for those who live in marshy countries, *ibid*.

lir, confined, poisonous to children, 50. A free open air will sometimes cure the most obstinate disorders in children, 52. Occupations which injure the health by unwholesome air, 65, 65. The qualities of, act more sensibly on the body than is generally imagined, 86. The several noxious qualities of, specified, 87. In large cities, polluted by various circumstances, *ibid*. The air in churches, how rendered unwholesome, 88. Houses ought to be ventilated daily, 89. The danger attending small apartments, *ibid*. Persons whose business confines them to town ought to sleep in the country, *ibid*. High walls obstruct the free current of air, 90. Trees should not be planted too near to houses, *ibid*. Fresh air peculiarly necessary for the sick, 91. The sick in hospitals in more danger from the want of fresh air, than from their disorders, *ibid.* Wholesomeness of the morning air, 94. The changeableness of, one great cause of catching cold, 129. Those who keep most within doors, the most sensible of these changes, *ibid.* Of the night to be carefully guarded against, 130. Fresh air often of more efficacy in diseases than medicine, 140. Its importance in fevers, 145, 157. States of, liable to produce putrid fevers, 186. Must be kept cool and fresh in sick chambers under this disorder, 189. Change of, one of the most effectual remedies for the hooping-cough, 259. The qualities of, a material consideration for asthmatic patients, 359. The various ways by which it may be rendered noxious, 527. Confined, how to try and purify, *ibid.* Method of recovering persons poisoned by foul air, 528. Fresh, of the greatest importance in fainting fits, 534.

Auken, Mr, his treatise on the nature and cure of fractures, recommended, 511. note.

Alkali, caustic, recommended in the stone, 294. How to prepare it, ibid. note.

Aliment is capable of changing the whole constitution of the body, 76. Will in many cases answer every intention in the cure of diseases, *ibid*. The calls of hunger and thirst, sufficient for regulating the due quantity of, 77. The quality of, how injured, *ibid*. A due mixture of vegetables necessary with our animal food, 79. To what the bad effects of tea are principally owing, *ibid*. Water, good and bad, distinguished, S0. Inquiry into the qualities of fermented liquors, with instructions for the due making of them, 82. The qualities of good bread, and why adulterated by bakers, *ibid*. General rules for the choice of food, 83. Ought not to be too uniform, 84. Meals ought to be taken at regular times, *ibid*. Long fasting injurious both to old and young, 85. Breakfasts and suppers, *ibid*. Changes of diet ought to be gradually made, S6.

Amaurosis, See Gutta serena.

American Indians, their method of curing the venereal disease, 446.

Amusements, sedentary, improper for sedentary persons, 67. Ought always to be of an active kind, 95.

Anasarca. See Dropsy.

- Anger, violent fits of, injurious to the constitution, 117. Tranquillity of mind essential to health, *ibid*.
- Animal food, cautions in giving it to children, 39. Animals that die of themselves, unfit for food, 77. Over-driven cattle rendered unwholesome, 78. The artifices of butchers exposed, *ibid*. Too great a quantity of, generates the scurvy, 79.

Animals and plants, the analogy in the nourishment of, stated, 102. Anthony's fire, St. See Erysipelas.

Aphthæ. See Thrush.

Apoplexy, who most liable to this disorder, 361. Causes, *ibid.* Symptoms, and method of cure, 362. Cautions to persons of an apoplectic make, 363.

Apothecaries' weights, a table of, 561.

Apparel. See Clothing.

Appetite, want of, causes and remedies for, 365.

INDEX.

buthnot, Dr, his advice in the inflammation of the lungs, 167. His advice to persons troubled with costiveness, 365, note.

senic, the effects of, on the stomach, 414. Medical treatment when the symptoms appear, *ibid*.

s. See Manufactures.

ites. See Dropsy.

's milk, why it seldom does any good, 173. Instructions for taking t, ibid.

hma, the different kinds of this disorder distinguished, with its causes, 358. Symptoms, *ibid*. Regimen, 359. Medical treatment, 360. Remedies proper in the moist asthma, *ibid*.

nosphere. See Air.

Is purging vermifuge powder, preparation of, 328.

lsams, how to prepare. Anodyne balsam, 565. Locatelli's balsam, bid. Vulnerary balsam, ibid.

ndages, tight, produce most of the bad consequences attending fractured oones, 512.

rk, Peruvian, the best antidote for sailors against disorders on a foreign coast, 34. How to be administered in the ague. 149. Distinction beween the red bark and quill bark, 150, note. A decoction, or infusion of, may be taken by those who cannot swallow it in substance, 151. Is often adulterated, *ibid. note*. Is the only medicine to be depended on a gues, 153. How it may be rendered more palatable, *ibid*. May be administered by clyster, 154. Cold water the best menstruum for exracting the virtues of this drug, 177. How to be administered in the putrid fever, 191; and in the erysipelas, 132. In an inflammation of he eyes, 241. Its efficacy in a malignant quinsey, 250. In the hoopng cough, 262. A good medicine in vomiting, when it proceeds from veakness of the stomach, 285. Its efficacy in a diabetes, and how to ake it, 289. Is good against the piles, 301; and worms, 327. Its ise dangerous for preventing a fit of the gout, 341. A good remedy n the king's evil, 354; and in the *fluor albus*, 459.

vley water, how made, 161.

renness in women, the general causes of, 470. Course of relief, ibid. Dr Cheyne's observations on, ibid. note.

h waters, good in the gout, 342.

h, cold, the good effects of, on Children, 49. Recommended to the tudious, 76. Is peculiarly excellent for strengthening the nervous sysem, 373. Therefore should never be omitted in gleets, 436. Is good or rickety children, 487. Cautions concerning the improper use of, in dults, 542—547.

h, warm, of great service in an inflammation of the stomach, 264. bing, a religious duty under the Judaic and Mahometan laws, 110. Is onducive to health, *ibid*.

r's foot, recommended as a powerful remedy against worms, 328. 's, instead of being made up again as soon as persons rise from them, ught to be turned down and exposed to the air, 88. Bad effects of oo great indulgence in bed, 94. Damp, the danger of, 131. Soft, are njurious to the kidneys, 288, 291.

INDEX.

Beer, the ill consequences of making it too weak, 82. Pernicious artifices of the dealers in, *ibid*.

Bells, parish, the tolling them for the dead, a dangerous custom, 119. Biles, 496.

Bilious colic, symptoms and treatment of, 269.

Bilious fever. See Fever.

Bite of a mad dog. See Dog.

Bitters, warm and astringent, antidotes to agues, 150. Are serviceable in vomiting, when it proceeds from weakness in the stomach, 285.

Bladder, inflammation of, its general causes, 275. Medical treatment of, ibid.

Bladder, stone in. See Stone.

Blast. See Erysipelas.

Bleeding, cautions for the operation of, in fevers, 145. In the ague, 149. Its importance in the acute continual fever, 158. In the pleurisy, 162. When necessary in an inflammation of the lungs, 167. Caution against, in a nervous fever, 183. In the putrid fever, 190. In the miliary fever, 197. When necessary in the small-pox, 207. When useful in the measles, 224. When necessary in the bilious fever, 228. Under what circumstances proper in the erysipelas, 232. Mode of, proper in an inflammation of the brain, 236. Is always necessary in an inflammation of the eyes, 239. When proper, and improper, in a cough, 255. When proper in the hooping-cough, 592. Is almost the only thing to be depended on in an inflammation of the stomach, 263. And in an inflammation of the intestines, 265. Is necessary in an inflammation of the kidneys, 273. Its use in a suppression of urine, 290. Is proper in an asthma, 360. Is dangerous in fainting fits, without due caution, 388. Cautions proper in the puerperal fever, 467. Is an operation generally performed by persons who do not understand when it is proper, 492. In what cases it ought to be had recourse to, ibid. The quantity taken away, how to be regulated, ibid. General rules for the operation, 493. Objections to bleeding by leeches, ibid. Prevailing prejudices relating to bleeding, ibid. The arm the most commodious part to take blood from, 494.

- Bleeding at the nose, spontaneous, is of more service, where bleeding is necessary, than the operation with the lancet, 297. Ought not to be stopped without due consideration, *ibid*. How to stop it when necessary, 298. Cautions to prevent frequent returns of, 299.
- Blind persons, when born so, might be educated to employments suited to their capacity, 399, note.
- Blisters, peculiarly advantageous in the nervous fever, 183. When only to be applied in the putrid fever, 190. When proper in the miliary fever, 197. Seldom fail to remove the most obstinate inflammation of the eyes, 240. A good remedy in the quinsey, 246. Proper for a violent hooping cough, 262. Is one of the best remedies for an inflammation of the stomach, 264. Are efficacious in the tooth-ach, 320.
 Blood, involuntary discharges of, often salutary, and ought not to be rashly stopped, 295. The several kinds of these discharges, with their usual causes, *ibid.* Methods of cure, 296.

auses, *ibid.* Symptoms, 303. Proper regimen in, 304. Medical treatment, *ibid.* Cautions for persons subject to it, 305.

ad, vomiting of, its causes and symptoms, ibid. Medical treatment, 306. ad-shot eye, how to cure, 402.

ody-flux. See Dysentery.

rbaave, his observations on dress, 102. note. His mechanical expediints to relieve an inflammation of the brain, 230.

bid. Diaphoretic bolus, ibid. Mercurial bolus, 507. Bolus of rhubarb and mercury, ibid. Pectoral bolus, ibid. Purging bolus, ibid.

mes, the exfoliation of, a very slow operation, 502. Bones, broken, often successfully undertaken by ignorant operators, 510. Regimen to be adopted after the accident, 511. Hints of conduct if the patient is confined to his bed, *ibid*. Cleanliness to be regarded during this confinement, 512. The limb not to be kept continually on the stretch, *ibid*. Cautions to be observed in setting a bone, *ibid*. Tight bandages condemned, *ibid*. How to keep the limb steady by an easy method, *ibid*. Fractures of the ribs, *ibid*.

wels, inflammation of. See Stomach.

us, the military exercise proper for them, 46.

aidwood, Mr, his skill in teaching the dumb to speak, 403, note.

toms, 234. Regimen, 235. Medical treatment, 236.

cead, proper food for children, as soon as they can chew it, 39. A crust of, the best gum-stick, *ibid*. The best modes of preparing it in food for children, *ibid*. Good, the qualities of, and for what purpose adulterated by the bakers, 82. Toasted, a decoction of, good to check the vomiting in a cholera morbus, 280.

rimstone. See Sulpher.

rath, gelatinous, recommended in the dysentery, how to make, 301. ruises, why of worse consequence than wounds, 501. Proper treatment of, *ibid*. The exfoliation of injured bones a very slow operation, 502. How to cure sores, occasioned by, *ibid*.

uboes, two kinds of, distinguished, with their proper treatment, 439. urdens, heavy, injurious to the lungs, 58.

urgundy pitch, a plaster of, between the shoulders, an excellent remedy in a cough, 256. In a hooping cough, 261. And for children in teething, 484.

towns, 87.

urns, slight, how to cure, 500. Treatment of, when violent, ibid. Extraordinary case of, 501. Liniment, for, 592.

utchers. their professional artifices explained, and condemned, 78.

utter aught to be very sparingly given to children, 42.

abbage leaves, topical application of, in a pleurisy, 103.

amphor, why of little use in eye-waters, 570.

ampliorated oil, preparation of, 593.

amphorated spirit of wine, 699.

amps, the greatest necessity of consulting cleanliness in, 109.

4 K

Cancer, its different stages described, with the producing causes, 407, Symptoms, 408. Regimen, and medical treatment, 409. Dr Stock's method of treating this disorder, 410. Cautions for avoiding it, 412.

Cancer scroti, a disorder peculiar to chimney-sweepers, owing to want of cleanliness, 107, note.

Carriages, the inculgence of, a sacrifice of health to vanity, 93.

Carrot, wild, recommended in the stone, 294.

Carrot poultice for cancers, how to prepare, 413.

Casualties, which apparently put an end to life, necessary cautions respecting, 516, 522, 526, 541.

_____ drowning, 523,

noxious vapours, 527.

extremity of cold, 529.

----- extreme heat, 530.

Cataplasms, their general intention, 567. Preparation of the discutient cataplasm, 568. Ripening cataplasm, ibid.

Cataract, the disorder and its proper treatment described, 401.

Cattle, stall fed, are unwholesome food, 178. Over driven, are killed in a high fever, *ibid*. The artifices of butchers exposed, *ibid*.

Cellars, long shut, ought to be cautiously opened, 89. And suck stories of houses unhealthy to live in, 132. Of liquors in a state of fermentation, dangerous to enter, 527. How to purify the air in, *ibid*.

Celsus, his rules for the preservation of health, 136.

Chancres, described, 440. Primary, how to treat, ibid. Symptomatic, 441.

Charcoal fire, the danger of sleeping in the fume of, 527.

Charity, the proper exercise of, 67.

Cheyne, Dr, his persuasive to the use of exercise, 94. His judgment of the due quantity of urine, not to be relied on, 194. Strongly recommends AEthiops mineral in inflammations of the eyes, 241. His observations on barrenness, 479, note.

Chilblains, cause of, 486, How to cure, ibid.

Child-bed women, how to be treated under a miliary fever, 198.

Child-bed fever. See Fever.

Child birth, the season of, requires due care after the labour pains are over, 533. Medical advice to women in labour, 463. Ill effects of collecting a number of women on such occasions, 464, note. How to guard against the miliary fever, 466. Symptoms of the puerparal fever, 467. Proper treatment of this fever, *ibid*. General cautions for women at this season, 469.

Children, their diseases generally acute, and delay dangerous, 29. Their disorders less complicated, and easier cured, than those of adults, *ibid*. Are often the heirs of the diseases of their parents, 30. Those born of diseased parents, require peculiar care in the nursing, 31. Are often killed or deformed by injudicious clothing, 32. How treated in Africa, 33, note. The usual causes of deformity in, explained, 34. Their clothes ought to be fastened on with strings, 35. General rule for clothing them, 36. Cleanliness an important article in their dress, *ibid*. The milk of the mother the most natural food for, 37. Absurdity of

giving them drugs as their first food, ibid. The best method of expelling the meconium, 38. How they ought to be weaned from the breast, ibid. A crust of bread the best gum-stick for them, 39. How to prepare bread in their food, ibid. Cautions as to giving them animal food, ibid. Cautions as to the quantity of their food, 40. Errors in the quality of their food more frequent than in the quantity, ibid. The food of aduits improper for children, ibid. Strong liquors expose them to inflammatory disorders, 41. Ill effects of unripe fruit, ibid. Butter, 42. Honey, a wholesome article of food for them, ibid. The importance of exercise to promete their growth and strength, ibid. Kules for their exercise, 43. Poverty of parents occasions their neglect of children, 44. The utility of exercise demonstrated from the organ cal structure of children, 45. Philosophical arguments shewing the necessity of exercise, it id. Ought not to be sent to school too soon, ibid. Nor be put too soon to labour, 48. Dancing an excellent exercise for them, 49. The cold bath, ibid. Want of wholesome air destructive to children, 50. To wrap them up close in cradles, pernicious, 51. Are treated like plants in a hot hot-house, ibid. The usual faulty conduct of nurses pointed out, 53. Are crammed with cordials by indolent nurses, ibid. Eruptions ignorantly treated by nurses, 54. Loose stools, the proper treatment of, ibid. Every method ought to be taken to make them strong and hardy, 55. Indications of the small-pox in, 201. Chincough. See Cough.

- Cholera morbus, the disorder defined, with its causes and symptoms, 279. Medical treatment, ibid.
- Churches, the several circumstances that render the air in, unwholesome, 88.
- Churching of women after lying-in, a dangerous custom, 469.
- Church-yards, the bad consequences of having them in large towns, 87. Cities, large, the air in, contaminated by various means, *ibid*. The bad effects of burying the dead in, *ibid*. Houses ought to be ventilated daily, 88. The danger attending small apartments, 90. All who can ought to sleep in the country, *ibid*. Disorders that large towns are peculiarly burtful to, *ibid* Cleanliness not sufficiently attended to in, 90. Should be supplied with plenty of water, 112, note. The best means to guard against infection in, 114.
- Clare, Mr, his method of applying saline preparations of mercury in venereal cases, 445.
- Cleanliness, an important article of attention in the dress of children, 36; and to sedentary artists, 68. Finery in dress often covers dirt, 101. Is necessary to health, 107. Disorders originating from the want of, 108. Is not sufficiently attended to in large towns, *ibid*. Nor by country peasants, 109. Great attention paid to, by the ancient Romans, *ibid. note.* Necessity of consulting cleanliness in camps, *ibid.* Was the principal object of the whole system of the Jewish laws, *ibid.* Is a great part of the religion of the Eastern countries, 110. Bathing and washing greatly conducive to health, *ibid.* Cleanliness peculiarly necessary on board of ships, 111; and to the sick, *ibid.* General remarks on, *ibid.* Many disorders may be cured by cleanliness alone, 141. The want of, a very general cause of putrid fevers, 186. Is a

great preservative against venereal infection, 449; and against galling in infants, 476.

- Clergy, exhorted to remove popular prejudices against inoculation, 251. Might do great good by undertaking the practice of it themselves, 219. Clothing, the only natural use of, 32. That of children, has become a secret art, *ibid*. Ought to be fastened on infants with strings instead of pins, 35. Pernicious consequences of stays, 36. Importance of cleanliness, to children, *ibid*. The due quantity of, dictated by the climate, 99. Should be increased in the decline of life, *ibid*. and adapted to the scasons, *ibid*. Is often hurtful by being made subservient to the purposes of vanity, 100. Pernicious consequences of attempting to mend the shape by dress, *ibid*. Stays, *ibid*. Shoes, *ibid*. Garters, buckles, and other bandages, 101. The perfection of, to be easy and clean, *ibid*. General remarks on, *ibid*. Wet, the danger of, and how to guard against it, 130.
- Chysters, a proper form of, for an inflammation of the stomach, 264. And for an inflammation of the intestines, 265. Of tobbaco smoke, its efficacy in procuring a stool, 271, note. Of chicken broth salutary in the cholera morbus, 280. Their use in a suppression of urine, 290. Ougl t to be frequently administered in the puerperal feve, 468. Of tobacco to excite a vomit, 521. Of tobacco fumes, to stimulate the intestines, 524. The general intention of, 568. Preparation of the emollient clyster, *ibid*. Laxative clyster, *ibid*. Carminative clyster, *ibid*. Oily clyster, 570. Starch clyster, *ibid*. Turpentine clyster, *ibid*. Vinegar clyster, *ibid*.

Caliac passion, proper treatment for, 314.

Coffee berries recommended in the stone, 294.

Cold, extreme, its effects on the human frame, 529. The sudden application of heat dangerous in such cases, *ibid*. How to recover frozen or benumbed limbs, 530.

Cold Bath. See Bath.

- Colds, frequently occasioned by imprudent changes of clothes at the first approaches of summer, 99, note. Various causes of, specified, 129. Their general causes, 252. Proper regimen on the symptoms of, appearing, *ibid*. Danger of neglecting the disorder, 253. The chief secret for avoiding, 255.
- Colic, different species of, 263. Medical treatment of, according to their species and causes, 261. Bilious colic, *ibid*. Hysteric colic, 270. Nervous colic, 271. Cautions necessary to guard against the nervous colic, 272. General advice in colics, *ibid*.

Collyria. See Eye-waters.

- Commerce often imports infectious disorders, 141. Means suggested to guard against this danger, *ibid. note.*
- Confections often very needlessly compounded, 572. Preparation of the Japonic confection, ibid.
- Concerves and preserves, general remarks on, and their composition, ibid. Of red roses, ibid. Of sloes, 573. Candied orange-peel, ibid.

Constitution, good or bad, four dation of, generally laid during infancy, 25. Consumptions, the increase of this disorder may be attributed to hard drink-1 jug, 105. Who most liable to, and its causes, 109. Symptoms, 179.

INDEX.

Regimen, 171. Riding, *ibid.* Much benefit to be expected from going a long voyage, 172. Travelling, *ibid.* Diet, *ibid.* Great efficacy of milk in, 173. Medical treatment, 175.

Consumption, Nervous, defined, and the persons most liable to, 179. Proper treatment of, ibid.

- Convulsions, why new born infants are so liable to, 35. Those preceding the eruption in the small-pox favourable symptoms, 203. The general causes of, 488. Proper treatment of, *ibid*. Extraordinary recovery of an infant seemingly killed by, 599. Farther instructions in like cases, 540.
- Took, Captain, the circumnavigator, his means of preserving the health of his men, 63, note.
- Cookery, the arts of, render many things unwholesome that are not naturally so, 80.
- Cordials, ought not to be given to infants, 38. Are the common refuge of nurses who neglect their duty to children, 53. Are often fatal in an inflammation of the stomach, 263. When good in the colic, 269. Ought not to be given to a pregnant woman during labour, 463.
- Corn. damaged, will produce the putrid fever, 186.
- Corns in the feet are occasioned by wearing tight shoes, 100.
- Cortex. See Bark.
- Costiveness, a frequent recourse to medicines for the prevention of, injurious to the constitution, 126. Is rather to be removed by diet than by drugs, *ibid.* Its general causes, and ill effects, 364. Regimen, 365. Remedies for, 366.
- Cough, the proper remedies for, 255. A plaster of Burgundy pitch laid between the shoulders an excellent remedy for, 256. The stomach cough, and cough of the lungs, distinguished, 257. Treatment for the nervous cough, 258.
- Cough, hooping, who most liable to, with its disposing causes, *ibid*. Remedies, 259. Is infectious, *ibid*. Vomits, their use, and how to administer them to children, 260. Garlic ointment, a good remedy for, 261.

Cough, phthisical, incident to sedentary artificers, from their breathing confined air, 65.

Cradles, on many accounts hurtful to children, 51.

Cramp, proper remedies for, 395.

Cramp of the stomach, who most subject to, 334. Medical treatment of,

Crotchets, how to use, for extracting substances detained in the gullet, 519. Croup in children, described, 481. Its symptoms and proper treatment, 482.

Cyder, the ill consequences of making it too weak. 82.

Dancing, an excellent kind of exercise for young persons, 49.

Daucus sylvestris. See Carrot.

Deafness, when a favourable symptom in the putrid fever, 188, note. Methods of cure, according to its causes, 403.

Death, the evidences of, sometimes fallacious, and ought not to be too soon

credited, 517, 523, 526. ibid. The means to be used for the recovery of persons from, nearly the same in all cases, 541.

- Decocions, general remarks on, 573. Preparation of the decoction of althea, 574. Common decoction, *ibid*. Of logwood, *ibid*. Of bark. *ibid*. Compound decoction of bark, *ibid*. Of sarsaparilla, 575. Of seneka, *ibid*. White decoction, *ibid*.
- Deformity, often occasioned by the injudicious manner of dressing children, 32. Is seldom found among savage nations, 33. The usual causes of, explained, *ibid*

Dews, night, dangerous to health, 130.

Diabetes, who most liable to this disorder, 237. Its causes and symptoms, *ibid.* Regimen, and medical treatment, 288. Distinguished from incontinency of urine, 289.

Diarrbaa. See Looseness.

Diet, will often answer all the indications of cure in diseases, 139. Illustrations, 140. See Aliment.

Digestion, the powers of, equally impaired by repletion or inanition, 85.

- Diseases, hereditary, cantions to persons afflicted with, 31. Peculiar disorders attending particular occupations, 56. Many of them infections, 112. The knowledge of, depends more upon experience and observation than upon scientifical principles, 137. Are to be distinguished by the most obvious and permanent symptoms, *ibid*. The differences of sex, age, and constitution, to be considered, *ibid*. Of the mind, to be distinguished from those of the body, 138. Climate, situation, and occupation, to be attended to, *ibid*. Other collateral circumstances, *ibid*. Many indications of cure, to be answered by diet alone, 139. Cures often effected by fresh air, by exercise, or by cleanliness, 140. Nervous diseases, of a complicated nature, and difficult to cure, 369.
- Dislocations, should be reduced before the swelling and inflammation come on, and how, 506. Of the jaw, *ibid*. Of the neck, 507. Of the ribs, 508. Of the shoulder, *ibid*. Of the elbow, 509. Of the thigh, 510. Of the knees, ancles, and toes, *ibid*.

Diuretic infusion for the Dropsy, how to prepare, 338.

- Dog, symptoms of madness in, 416. Ought to be carefully preserved after biting any person, to ascertain whether he is mad or not, 417. Is often reputed mad when he is not so, *ibid*. Symptoms of the bite of a mad dog, 418. The poison cannot lie many years dormant in the body, as is supposed, *ibid*. Dr Mead's receipt for the bite, *ibid*. The famous East Indian specific for, 419. Other recipes, 419. Vinegar of considerable service in this disorder, 420 Medical course of treatment recommended, *ibid*. Regimen, 421. Dipping in the sca not to be relied on, *ibid*. Dr Tissot's medical course for the cure of the hydrophobia, 422. Remarks on the Ormskirk medicine, 423, note.
- Doses of medicines, the relative proportions of, for different ages, 569. Drams, ought to be avoided by persons afflicted with nervous disorders, 572.
- Draught, is the proper form for such medicines as are intended for immediate operation, 576. How to prepare the anodyne draught, *ibid*. Di-

INDEX.

uretic draught, ibid. Purging d aught, ibid. Sweating draught, 577. Vomiting draught, ibid.

Dress. See Clothing.

Drinking, persons who are seldom intoxicated may nevertheless injure their constitutions by, 105. The habit of drinking irequently o ignates from misfortunes, 105. Frequently destroys the powers of the mind, *ibid.* Persons often forced to it by mistaken hospitality, *ibid. note.* Leads to other vices, 107.

Dropsy, the several distinctions of, with its causes, 332. Symptoms, 333. Regimen, *ibid.* Medical treatment, 334. Tapping, a safe and simple operation, 336.

Dropsy of the brain. See Water in the head.

Drowned persons, ought not to be rashly given up for dead, 523. Proper trials for the recovery of, *ibid*. Endeavours ought not to be suspended upon the first returns of life, 520. Success of the Amsterdam society for the recovery of, 541.

Drunkenness. See Intoxication.

Dumb persons may be taught to read, write, and discourse, 403, note.

Dysentery, where and when most prevalent, 308 Its causes and symptoms, *ibid*. Regimen, 309. Fruit one of the best remedies for, 311. Proper drink for, *ibid*. Medical treatment, 312. Cautions to prevent a relapse, *ibid*.

Ear, the several injuries it is liable to, 402. Deafness, medical treatment of, according to its causes, 403. Ought not be tam ered with, 404. Ear-ach, its causes, and proper treatment for, 321. How to drive in ects out of, *ibid*.

Education of children, should be begun at home by the parents, 46, note. That of girls hurtful to their constitution, 47.

Effuvia, putrid, will occasion the spotted fever, 186.

Electricity, beneficial in the passy, 378.

Electuaries, general rules for making, 577. Preparation of lenitive electuary, 578. Electuary for the dysentary, *ibid*. For the epilepsy, *ibid*. For the gonorrhœa, *ibid*. Of the bark, 579. For the piles, *ibid*. For the palsy; *ibid*. For the rheumatism, *ibid*.

Elixir, paregoric, how to prepare, 609. Sacred elixir, ibid. Stomachic elixir, ibid. Acid elixir of vitriol, ibid.

Emulsions, their uses, 580. Preparation of the common emulsion, *ibid*. Arabic emulsion, *ibid*. Camphorated emulsion, *ibid*. Emulsion of gum ammoniac, *ibid*. Oily emulsion, 581.

Engleman, Dr, his account of the German method of recovering persons from fainting fits, 533.

Entrails. See Intestines.

Epilepsy, the disorder defined, 379. Its causes and symptoms, 380. Due regimen, 381. Medical treatment, *ibid*.

Eruption in children often free them from bad humours, but are mistaken and ill-treated by nurses, 54. Ought never to be stopped without proper advice, *ibid.* In fevers, how to be treated, S4. 191. 195. 197 In the small-pox, 204. 207. In children, the causes of, 479. How to cure, *ibid.*

Erysipelas, a disorder incident to the laborious, 59. Its causes explained,

and who most subject to it, 230. Its symptoms, *ibid*. Regimen, 231. Medical treatment, *ibid*. The scorbutic erysipelas, 233. Instructions for those who are subject to this disorder, *ibid*.

- Evacuations of the human body, the principle, specified, 125. By stool, ibid. Urine, 121. Perspiration, 128.
- Exercise, the importance of, to promote the growth and strength of children, 42. All young animals exert their organs of motion as soon as they are able, 43. The utility of, proved from anatomical considerations, 44. And from philosophical deductions, 45. Military exercise recommended for boys, 46. Benefits of dancing, 49. Is better for sedentary persons under lowness of spirits than the tavern, 68. Gardening the best exercise for the sedentary, 69. Violent, ought not to be taken immediately after a full meal, 76. Is as necessary as food for the preservation of health, 92. Our love of activity, an evidence of its utility, ibid. Idolence relaxes the solids, ibid. The indulgence of carriages as absurd as pernicious, ibid. Is almost the only cure for glandural obstructions, 93. Will prevent and remove those disorders that medicine cannot cure, ibid. Is the best cure for complaints in the stomach, 95. How to be taken within doors, when not to be done in the open sir, ibid. Active sports better than sedentary amusements, ibid. The golf, a better exercise than cricket, ibid. note. Exercise should not be extended to fatigue, ibid. Is. as necessary for the mind as for the body, 122. Is often of more efficacy than any medicine whatever, 140. The best mode of taking it in a consumption, 171. Is of the greatest importance in a dropsy, 334. Muscular, for the gout, 341. Is necessary for the asthmatic, 359. Is superior to all medicine in nervous disorders, 372. And in the palsy, 379. Is proper for pregnant women, unless they are of a very delicate texture, 462. Want of, the occasion of rickets in children, 486.
- Extracts, general rules for making; but are more conveniently purchased ready made, 581.
- Eyes, inflammation of, its general causes, 237. Symptoms, 238. Medical treatment, 239. How to be treated when it proceeds from a scrophulous habit, 241. Advice to those who are subject to this complaint, 242. Are subject to many diseases which are difficult to cure, 399. The means by which they are frequently injured, 400. General means of prevention, *ibid.* The several disorders of, with their medical treatment, 401.

Eye-waters, general remarks on, and their principal intentions, 570. Collyrium of alum, 571. Vitriolic Collyrium, *ibid*. Collyrium of lead, *ibid*. Fainting-fits, how to cure, 386. 522. Cautions to persons subject to them, 534.

Falling-sickness. See F.pilepsy.

- Fosting, long, injurious to those who labour hard, 60. Is hurtful both to old and young, 85.
- Fathers, culpably inattentive to the management of their children, 28. Their irregular lives often injure the constitution of their children, 30.

Fear. the influence of, very great, in occasioning and aggravating diseases, 117. Its various operations, 118.

Feet, injured by wearing tight shoes, 100. The washing of, an agreeable

article of cleanliness, 110. Wet, the danger of, 130. Bathing them in warm water, a good remedy in a cold, 254. And in the hoopingcough, 261.

Termentation, the vapour of liquors in a state of, noxious, 527.

evers, of a bad kind, often occasioned among labourers by poor living, 60. Frequently attack sedentary persons after hard drinking, 68. Nervous, often the consequence of intense study, 72. Putrid and malignant, often occasioned by want of cleanliness, 108. The most general causes of, enumerated, 141. The distinguishing symptoms of, 142. The several species of, *ibid*. Is an effort of nature, which ought to be assisted, 143. How this is to be done, 144. Cordials and sweetmeats improper in, *ibid*. 'Fresh air of great importance in, 145. The mind of the patient ought not to be alarmed with religious terrors, *ibid*. Cautions as to bleeding and sweating in, *ibid*. Longings, the calls of nature, and deserve attention, 146. Cautions to prevent a relapse, *ibid*. 'ever, acute continual, who most liable to, 155. Causes, *ibid*. Symptoms, *ibid*. Regimen, 156. Medical treatment, 158. Symptoms favourable and unfavourable, *ibid*. Regimen to be observed during recovery, 159.

ever, bilious, general time of its appearance, 228. Proper treatment of, according to its symptoms, ibid.

ever, intermitting. See Ague.

ever, miliary, from what the name derived, and its general appearances, 193. Who most liable to it, 194. Causes, *ibid.* Symptoms, 195. Regimen, *ibid.* Account of a miliary fever at Strasburg, 196, note. Proper medical treatment, 197. Cautions for avoiding this disorder, 198. How to prevent in child-bed women, 466.

ever, milk, how occasioned, 465. How to prevent, 469.

- ever, nervous, why more common now than formerly, and who most liable to it, 180. Its causes, *ibid*. Symptoms and proper regimen, 181. Medical treatment, 182.
- *Cever*, puerperal, or child-bed, the time of its attack, and symptoms, 467. Medical treatment of, *ibid*. Cautions for the prevention of this fever, 469.
- *ever*, putrid, is of a pestilential nature, and who most liable to it, 185. Its general causes, *ibid*. Symptoms of, 186. Other fevers may be converted to this, by improper treatment, 188. Favourable and unfavourable symptoms of, *ibid*. Regimen, *ibid*. Medical treatment, 190. Cautions for the prevention of this disorder, 192.
- lever, remitting, derivation of its name, 198. Its causes and symptoms, ibid. Proper regimen, 199. Medical treatment, 200. Cautions for avoiding this fever, 201.

Pever, scatlet, why so named, and its usual season of attack, 227. Proper treatment of, *ibid*. Is sometimes attended with putrid and malignant symptoms, *ibid*. Medicines adapted to this stage of the malady, 228. History of a fever of this kind at Edinburgh, *ibid*. note.

Fever, secondary in the small-pox. proper treatment of, 210.

Flatulencies in the stomach, remedies against, 323. The several causes of, 388. Medical treatment of, 389.

4 L

Flatulent colic, its causes, and seat of the disorder, 268. Remedies for ibid.

Flower-de-luce, the yellow water, the root of, recommended for the toothach, 319.

Fluor-albus described, with its proper treatment, 458.

Fomentations, how to make and apply, 582. General intentions, *ibid.* Anodyne fomentation, 582. Aromatic fomentation, *ibid.* Common fomentations *ibid.* Emollient fomentation, *ibid.* Strengthening fomentation, *ibid.*

Food. See Aliment.

Forgiveness of injuries, ought to be practised from a regard to our own health, 117.

Fractures. See Bones, broken.

Frozen limbs, how to recover, 530.

Fruit, unripe, very hurtful to children, 41. One of the best medicines, both for the prevention and cure of a dysentery, 511.

Funerals, the great number of visitors attending them, dangerous to their health, 113.

Galling, in infants, the cause and cure of, 476.

Gangrene, proper treatment of, 495.

Gardening, a wholesome amusement for sedentary persons, 68.

Gargles for the throat, how to make, 244. 247. 250. General intentions of, 582. Method of making the attenuating gargle, 583. Common gargle, *ibid*. Detergent gargle, *ibid*. Emollient gargle, *ibid*. For the mouth of infants in the thrush, 474.

Garlie Ointment, a North British remedy for the hooping-cough, how to apply it, 261.

Generals of armies, how they ought to consult the health of the men they command, 61.

Gilders. See Miners.

Ginger, syrup of, how to prepare, 603.

Girls, the common mode of education prejudicial to their constitution, 47. Means of rectifying it recommended, *ibid*.

Gleet, how occasioned, and its symptoms, 434. Method of cure, *ibid*. Regimen, 436. Obstinate gleets cured by mercurial inunctions, 437. How to apply bougies, *ibid*.

Glover, Mr, his couse of treatment for the recovery of a hanged man, 538. Gonorrhea, virulent, the nature of, and its symptoms, 428. Regimen,

429. Medical treatment, *ibid.* Is often cured by astringent injections, 430. Cooling purges always proper in, *ibid.* Mercury seldom necessary in a gonorrhœa, 432. How to administer it when needful, *ibid.*

Goulard, M. preparation of his celebrated extract of Saturn, 609. His various applications of it, ibid.

Gout, the general causes of, 70. How to treat a looseness occasioned by repelling it from the extremities, 282. The sources of this disorder, and its symptoms, 337. Regimen for, 338. Wool the best external application in, *ibid*. Why there are so many nostrums for, 340. Proper medicines after the fit, *ibid*. Proper regimen in the intervals bepween fits to keep off their return, 341. How to remove it from the

635

nobler parts to the extremities, 342. General cautions to prevent danger by mistaking it for other disorders, 343.-

Gravel, how formed in the bladder, 128. How distinguished from the stone, 221. Causes and symptoms, ibid. Regimen, 292. Medical treatment, ibid.

Green-sickness, originates in indolence, 454.

Grief, its effects permanent, and often fatal, 121. Danger of the mind dwelling long upon one subject, especially if of a disagreeable nature, ibid. The mind requires exercise as well as the body, 122. Innocent amusements not to be neglected, ibid. Is productive of nervous discases, 370.

Gripes in infants, proper treatment of, 475.

Guiacum, gum, a good remedy for the quinsey, 246; and rheumatism, 345. Gullet, how to remove substances detained in, 518. Cautions for the use of crotchets with this intention, 519. Other mechanical expedients,

ibid. Treatment, if the obstruction cannot be removed, 522.

Gums of children, applications to, during teething, and how to cut them, 485.

Gutta Serena, proper treatment of, 400.

Hæmoptoe, spitting of blood. See Blood.

Hæmorrhages. See Blood.

Harrowgate-water, an excellent medicine for expelling worms, 327. And for the jaundice, 332. In the scurvy, 346.

Head-ach, the species of, distinguished, 314. Causes of, 315. Regimen, 316. Medical treatment, ibid.

Health of the people in general, a proper object of attention for the magistrates, ix. preface. Ought to be attended to in matrimonial contracts, 31. Is often laboured for after it is destroyed, 75. Rules given by Celsus for the preservation of, 135.

Heart-burn, the nature of this disorder, with its causes, and remedies for, 367.

Heat, extreme, how to recover persons overcome by, 530.

Hemlock, a good remedy in the King's evil, 354. Is recommended by Dr Storck for the cure of cancers, 410.

Hemp-seed, a decoction of, good in the jaundice, and how to prepare it, \$31.

Hiccup, its causes, and method of treatment, 382.

Hoffman, his rules for guarding child-bed women against the miliary fever, 406.

Honey, a wholesome article of food for children, 42. Is recommended in the stone, 294.

Hooping-cough. See Caugh.

Hospitals, the want of fresh air in, more dangerous to the patients than their disorders, 91. Cleanliness peculiarly necessary in, 111. Often spread infection by being situated in the middle of populous towns, 114. How they might be rendered proper receptacles for the sick, 145. Particularly in infectious disorders, 116. The sick in, ought not to be crowded together, 205, note.

Horse radish, the chewing of, will restore sensibility to the organs of taste when injured, 407.

- Houses, instead of contrivances to make them close and warm, ought to be regularly ventilated, 88. In marshy situations unwholesome, 90. Ought to be built in a dry situation, 132. Danger of inhabiting newbuilt houses before thoroughly dry, *ibid*. Are often rendered damp by unseasonable cleanliness, 133. Are dangerous when kept too close and hot, 135.
- Husbandmen, the peculiar disorders they are exposed to, from the vicissitudes of the weather, 58.

Huxham, Dr, recommends the study of the dietetic part of medicine, x. Hydrocephalus. See Dropsy.

Hydrophobia, Dr Tissot's method of curing, 422.

Hydrops pectoris. See Dropsy,

Hypochondriac affections, frequently produced by intense study, 72. Their causes, and who most subject to them, 396. The general intentions of cure, *ibid.* Regimen, 398.

Hysterics, a disorder produced by the habitual use of tea, 79. General causes of, 392. Symptoms, *ibid*. Proper treatment of, *ibid*. Regimen, 393. Medicines adapted to, 394.

Hysteric colic, symptoms and treatment of, 270.

Jails, why malignant fevers are often generated in them, 88. Often spread infection by being situated in the middle of populous towns, J14. Ought to be removed, 115.

Janin, M. his relation of the recovery of an overlaid infant, 588. And of a man who had hanged himself, *ibid*.

Jaundice, the different stages of its appearance, with the causes of this disorder, 329. Symptoms and regimen, 330. Medical treatment, 331. Jesuit's Bark. See Bark.

Jews, the whole system of their laws tending to promote cleanliness, 110. 113.

Iliac passion, a particular kind of inflammation of the intestines, 264.

Imposthume in the breast, in consumptions, how to make it break inwardly, when not to be discharged by other means, 178. Imposthumes after the small-pox, proper treatment of, 211.

Incontinency of urine, distinguished from a diabetes, 289. Expedient for relief, ibid.

Indigestion, is one consequence of intense study, 71. General causes and remedies for, 366.

Indolence, its bad effects on the constitution, 92. Occasions glandular obstructions, 93. Ill consequences of too much indulgence in bed, 94. Is the parent of vice, 96. Is the general cause of most nervous disorders, 398.

Infancy, the foundation of a good or bad constitution, generally laid in this season of life, 25.

Infants, nearly one half of those born in Great Britain die under twelve years of age, *ibid.* Perish mostly by art, *ibid.* Ought not to be suckled by delicate women, 26. Importance of their being nursed by their, mothers, 27. Often lose their lives, or become deformed, by errors in clothing them, 32. How the art of bandaging them became the province of the midwife, *ibid.* How treated in Africa, 33, note. Philosophical observations on their organical structure, and on the causes of de-

formity, *ibid.* Why they so frequently die of convulsions, 35. Why exposed to fevers, *ibid.* And colds, 36. Rules for their dress, *ibid.* Their food, 37. Reflections on the many evils they are exposed to, 471. Why their first disorders are in their bowels, *ibid.* How to cleanse their bowels, 472. The meconium, 473. Thrush, *ibid.* Acidities, 474. Gripes, 475. Galling and excoriations, 476. Stoppage of the nose, *ibid.* Vomiting, 477. Looseness, 478. Eruptions, 479. Scabbed-heads, 480. Chilblains, 481. The croup, *ibid.* Teething, 483. Rickets, 485. Convulsions, 488. Water in the head, 490. How to recover infants seemingly dead, 533. Ought never to sleep in the same bed with their mothers or nurses, 537, *note.* Case of the recovery of an overlaid infant, *ibid.* Case of an infant killed by a strong convulsion fit, and recovered, 539. See Children.

- infection, the danger of, incurred by injudicious or unnecessary attendance on the sick, 112. And on funerals, 113. Is often communicated by clothes, *ibid.* Is frequently imported, 114. Is spread by hospitals and jails being situated in the middle of populous towns, *ibid.* How to prevent infection in sick chambers, 115. Physicians liable to spread infection, *ibid. note.* In what respects the spreading of infection might be checked by the magistrate, *ibid.* Bleeding and purging increase the danger of, by debilitating the body, 193. Small-pox, 201. Of the small-pox may be received again, 205, note.
- Inflammations, how the laborious part of mankind expose themselves to, 60, Proper treatment of, 495.

Inflammation, of the bladder. See Bladder.

- of the brain. See Brain.
- _____ of the eyes. See Eyes.

_____ of the intestines. See Intestines.

of the kidnies. See Kidnies.

_____ of the liver. See Liver.

_____ of the lungs. See Peripneumony,

_____ of the stomach. See Stomach.

----- of the throat. See Quinsey.

----- of the womb. See Womb.

Infusions, advantages of, over decoctions, 584. How to obtain rich infusions from weak vegetables, *ibid*. Preparation of the bitter infusion, *ibid*. Infusion of the bark, *ibid*. Infusion of carduus, 585. Of linseed, *ibid*. Of roses, *ibid*. Of tamarinds and senna, *ibid*. Spanish infusion, 586. For the palsy, *ibid*.

Inns, the great danger of meeting with damp beds in them, 131. The sheets in, how treated to save washing, 132.

Inoculation, of the small-pox, more favourably received here than in neighbouring countries, 212. Cannot prove of general utility while kept in the hands of a few, *ibid.* No mystery in the process, *ibid.* May safely be performed by parents or nurses, 213. Various methods of doing it, *ibid.* The clergy exhorted to remove the prejudices against the operation, 215. Arguments cited from Dr M'Kenzie in favour of inoculation, *ibid. note.* Ought to be rendered universal, 217. Means of extending the practice of, *ibid.* Two obstacles to the progress of, stated, 219. Might be performed by clergymen, or by parents themselves, 220. The proper seasons and age for performing it, 221. Will of-

- . ten mend the habit of body, *ibid*. Necessary preparation and regimen for, *ibid*.
- Insects, when they creep into the ear, how to force them out, 321. Poisonous, the bites of, how to be treated, 424.
- Intemperance, one great cause of the diseases of seamen, 62. The danger of, argued from the constructions of the human body, 102. The analogy in the nourishment of plants and animals, *ibid*. Is the abuse of natural passions, 103. In diet, *ibid*. In liquor and carnal pleasures, *ibid*. The bad consequences, of, involve whole families, 104. Effects of drunkenness on the constitution, *ibid*. Persons who seldom get drunk, may nevertheless injure their constitutions by drink, 105. The habit of drinking frequently acquired under misfortunes, 106. Is peculiarly hurtful to young persons, *ibid*. Leads to all other vices, 107. Intermitting fever. See Ague.
- Intestines, inflammation of, general causes from whence it proceeds, 264. The symptoms, regimen, and medical treatment, 265. Cautions to guard against it, 267.
- Intoxication produces a fever, 104. Fatal consequences of a daily repetition of this vice, *ibid.* Persons who seldom get drunk, may nevertheless injure their constitution by drinking, 105. Getting drunk a hazardous remedy for a cold, 253. Often produces fatal effects, 535. Proper cautions for treating persons in liquor, 536. The safest drink after a debauch, 535. Remarkable case, 536.
- Johnson, Dr, extraordinary recovery of an infant seemingly killed by a strong convulsion fit, related by, 539.
- Issues, how to make them take the best effect, 377.
- Itch, the nature and symptoms of this disease described, 355. Sulphur, the best remedy against, *ibid*. Great danger of the injudicious use of mercureal preparations for, 357. Cleanliness the best preservative against, *ibid*. note.
- Juleps, the form of, explained, 586. Preparation of the camphorated julep, *ibid*. Cordial julep, 587. Expectorating julep, *ibid*. Musk julep, *ibid*. Saline julep, *ibid*. Vomiting julep, 588.
- Kermes mineral, recommended by Dr Duplanil for the hooping-cough, 261. note.
- Kidnies, inflammation of, its general causes, 273. Its symptoms and proper regimen, *ibid*. Medical treatment, *ibid*. Where it proceeds from the stone and gravel, 275. Cautions for those subject to this disorder, *ibid*. See Gravel.

King's evil. See Scropbula.

Laborious employments, the peculiar disorders incident to, 58. The folly of men emulating each other in trials of strength, *ibid*. D.sadvantages attending their diet, 60. How they expose themselves to inflammations, 59. Danger of sleeping in the sun, 60. Long fasting huriful to them, *ibid*. Injuries arising from poor living, *ibid*. Many of the diseases of labourers, not only occasioned, but aggravated, by poverty, 61. Labour should not be imposed too early on children, 48.

Labour in child-bed, medical advice for, 463. Inconveniences of collecting a number of women at, 454. note.

.

audanum, its efficacy in fits of an ague, 148, note. How to be administered in a cholera morbus, 280. In a looseness, 282. In a diabetes, 289. When proper for the head-ach, 317. How to apply, for the tooth ach, 319. Will ease pain in the gout, 340. How to administer for the cramp in the stomach, 384. Is good for flatulencies, 389. Effects of an over-dose of, 415. Medical treatment in this case, *ibid. ieading strings*, injurious to young children, 43.

Leeches, may be successfully applied to inflamed testicles, 438, note. And to disperse buboes, 439, note. Are proper to apply to children where inflammations appear in teething, 484. Objections to bleeding with them, 493.

emons. See Oranges.

Leprosy, why less frequent in this country now than formerly, 351. Requires the same treatment as the scurvy, ibid.

Lientery, proper treatment for, 313

Life may frequently be restored, when the appearances of it are suspended by sudden casualties, 517, 523, 526, 541.

Lightning, persons apparently killed by, might possibly be recovered by the use of proper means, ibid.

Lime-water recommended to prevent gravel in the kidneys from degenerating to the stone in the bladder, 293. Is a good remedy for worms, 327. Happy effects of, in the cure of obstinate ulcers, 504.

Lind, Dr, his prescription to abate fits of an ague, 143, note. His directions for the treatment of patients under putrid remitting fevers, 200. note. Liniment for burns, preparation of, 592. White liniment, *ibid*. For the piles, *ibid*. Volatile liniment, *ibid*.

Liquors, strong, expose children to inflammatory disorders, 41. Fermented, the qualities of, examined, 81. The bad consequences of making them too weak, 82. Why all families ought to prepare their own liquors. *ibid.* Cold, the danger of drinking, when a person is hot, 133.

Liver, schirrous, produced by sedentary employments, 71.

Liver, inflammation of, its causes and symptoms, 276. Regimen and medical treatment, 277. Abscess in, how to be treated, 278. Cautions in the event of a schirrus being formed, *ibid*.

Lobelia, an American plant, used by the natives in the venereal disease, 446. Lochia, a suppression of, how to be treated, 465.

Longings, in diseases, are the calls of nature, and often point out what may be of real use, 146.

Loaseness, habitual, general directions for persons subject to, 125. Its general causes, 281. A periodical looseness ought never to be stopped, 282. Medical treatment of, according to its various causes, *ibid*. Means of checking it when necessary, 283. In children, proper treatment of, 478.

Love, why perhaps the strongest of all the passions, 123. Is not rapid in its progress, and may therefore be guarded against at its commencement, *ibid*. To pretend to it for amusement, cruelty to the object, *ibid*. Children often real martyrs between inclination and duty, *ibid note*.

Lues, confirmed, symptoms of, 443. Mercury the only certain remedy known in Europe for this disease, 444. Saline preparations of mercury more efficacious than the ointment, 445. How to administer corrosive sublimate, *ibid*. American method of curing this disease, 446. Lungs, injured by artists working in bending postures, 66. Studious persons liable to consumptions of, 71.

Luxury, highly injurious to the organs of taste and smell, 405.

Mackenzie, Dr, his arguments in favours of inoculating in the small-pox, 215, note.

Mad-dog. See Dog.

Magnesia alba, a remedy for the heart-burn, 368. Is the best medicine in all cases of acidity, 475.

Magnets, artificial, their reputed virtue in the tooth-ach, 320.

Malt liquors, hurtful in the asthma, 359. See Beer.

Man, why inferior to brutes in the management of his young, 25. Was never intended to be idle, 96.

Manufactures, the growth of, produced the rickets in children, 42. More favourable to riches than to health, 48. Some, injurious to health by confining artists in unwholesome air, 56. Cautions to the workmen, 57. Compared with agriculture, 64. Are injurious to health, from artists being crowded together, 65. And from their working in confined postures, 66. Cautious offered to sedentary artists, 67. Sedentary arts better suited to women than to men, 94, note.

Matrimony, ought not to be contracted without a due attention to health and form, 31.

Mead, Dr, his famous recipe for the bite of a mad-dog, 418. His character as a physician, 419, note.

Meals ought to be taken at regular times, 82. Reasons for this uniformity, 85.

Measles, have great affinity with the small-pox, 222. Cause and symptoms, 223. Proper regimen and medicine, 224. Inoculation of, might prove very salutary, 226. note.

Mechanics ought to employ their leisure hours in gardening, 69.

Meconium, the best mode of expelling it, 37, 347.

- Medicine, the origin of the art of, ix. The operation of, doubtful at best, x. Is made a mystery of, by its professors, vii. The study of, neglected by gentlemen, xvi. This ignorance lays men open to pretenders, *ibid.* Ought to be generally understood, xviii. A diffusion of the knowledge of, would destroy quackery, xix: Objections to the cultivation of medical knowledge answered, xxii. The theory of, can never supply the want of experience and observation, 137.
- Medicines have more virtue attributed to them than they deserve, 139. Ought not to be administered by the ignorant, nor without caution, 141. Want of perseverance in the use of, one reason why chronic diseases are so seldom cured, 346. Many retained, which owe their reputation to credulity, 557. Are multiplied and compounded in proportion to ignorance of the causes and nature of diseases, *ibid*. Disadvantages of compounded medicines, *ibid*. Are often adulterated for the sake of colour, 559. The relative proportions of doses of, for different ages, 560. A list of such medical preparations as ought to be kept for private practice, 562.

Melancholy, religious. its effects, 124. Leads to suicide, *ibid*. Defined, with its causes, 374. Symptoms and regimen, *ibid*. 375. Medicinal treatment, 376.

Menstrual discharge in women, the commencement and decline of, the most critical periods of their lives, 453. Confinement injurious to growing young women, 454; and tight lacing for a fine shape, 455. Symptoms of the first appearance of this discharge, 456. Objects of attention in regimen at this time, *ibid*. Ought to be restored whenever unnaturally obstructed, and how, 557. When an obstruction proceeds from another malady, the first cause is to be removed, *ibid*. Treatment under a redundancy of the discharge, 458. Regimen and medicine proper at the final decline of the menses, 459.

Mercury, may be given in desperate cases of an inflammation of the intestines, 267. Cautions for administering it, *ibid. note.* Great caution necessary in using mercurial preparations for the itch, 357. Is seldom necessary in a gonorrhœa, 432. How to administer it when needful in that disorder, *ibid.* Solution of mercury, how to make, 433, *note.* Is the only certain remedy known in Europe for the cure of a confirmed lues, 444. Saline preparations of, more efficacious than the mercurial ointment, *ibid.* How to administer corrosive sublimate in venereal cases, 445. Necessary cautions in the use of mercury, 447. Proper seasons for entering on a course of, 448. Preparations for, 449. Regimen under a course of, *ibid.*

Mezereon root, a powerful assistant in venereal cases, 446.

Midwifery, ought not to be allowed to be practised by any woman not properly qualified, 463. note.

Midwives, historical view of the profession, 32. How they became intrusted with the care of bandaging infants, with the ill effects of their attempts at dexterity in this office, *ibid*. Instances of their rashness and officious ignorance, 468, note. 471, note.

Miliary fever. See Fever.

Military exercise recommended for boys to practise, 46.

Milk, that of the mother, the most natural food for an infant, 37. Cows milk, better unboiled than boiled, 39. Is a good antidote against the scurvy, 79. Of more value in consumptions than the whole Materia Medica, 172. Its great efficacy in the scurvy, 349. A milk diet proper both for men and women, in cases of barrenness, 470.

Milk fever. See Fever.

Milipedes, how to administer for the hooping-cough, 261.

- Mind, diseases of, to be distinguished from those of the body, 138. See Passions.
- Miners, exposed to injuries from unwholesome air, and mineral particles, 56. Cautions to, 57.
- Mineral waters, the danger of drinking them in too large quantities, 287. Are of considerable service in weaknesses of the stomach, 367. Cautions concerning the drinking of, 548-553.
- Mixtures, general remarks on this form of medicines, 588. Composition of the astringent matter, *ibid*. Diuretic mixture, *ibid*. Laxative absorbent mixture, *ibid*. Saline mixture, 589. Squill mixture, *ibid*.
- Molasses, an intoxicating spirit, much used by the common people at Edinburgh, 105. note.
- Mothers, preposterous, when they think it below them to nurse their own children, 26. Under what circumstances they may be really unfit to

perform this task, *ibid.* Importance of their suckling their own children, 26, *note.* Delicate mothers produce unhealthy short-lived children, 30. Their milk, the best food for children, 37. Ought to give their children proper exercise, 44, and air, 50.

Mouth, cautions against putting pins or other dangerous articles into, 518.

Muscular exercise, a cure for the gout, 341.

- Muskrooms, a dangerous article of food, as other funguses are often gathered instead of them, 425.
- Music, the performance of, recommended as a proper amusement for studious persons, 74.

Musk, extraordinary effects produced by, under particular circumstances, in the nervous fever, 184. Is a good remedy in the epilepsy, 382. And for the hiccup, 383. Deafness cured by, 404.

Mustard, white, a good remedy in the rheumatism, 346.

Natural history, the study of, necessary to the improvement of agriculture, xvi.

Nervous diseases, the most complicated and difficult to cure of all others,
369. General causes of, *ibid.* Symptoms of, 370. Regimen, 371. Medical treatment, 373. A cure only to be expected from regimen, 374. The several symptoms of, though differently named, all modifications of the same disease, 396.

Nervous colic, its causes and symptoms, 271. Medical treatment of, ibid. Nervous fever. See Fever.

Night-mare, its causes and symptoms described, 385. Proper treatment of, ibid.

Night-shade, an infusion of, recommended in a cancer, 410.-

Nitre, purified, its good effects in a quinsey, 245. Is an efficaciousremedy for the dropsy, 335. Promotes urine and perspiration, 377.

Nose, ulcer in, how to cure, 406. Stoppage of, in children, how to cure, 476. See Bleeding at.

Nurses, their superstitious prejudices in bathing of children, 49. The only cartain evidence of a good one, 52. Their usual faults pointed out, 53. Administer cordials to remedy their neglect of duty toward children, *ibid.* Their mistaken treatment of eruptions, 54. And loose stools, *ibid.* Are apt to conceal the disorders of children that arise from their own negligence, *ibid.* Ought to be punished for the misfortunes they thus occasion, 55. Sensible, often able to discover diseases sooner than persons bred to physic, 137. Are liable to catch the small pox again from those they nurse in that disorder, 205, note.

Nursery, ought to be the largest and best aired room in a house, 50.

Oil, an antidote to the injuries arising from working in mines or metals, 57. Sallad oil, the best application to the bite of a wasp or bee, 424.

Camphorated, how to p-cpare, 593.

Oils, essential, of vegetables, the proper menstruum for, 603.

Ointment for the itch, 355. Use of ointments when applied to wounds and sores, 589, 590. Preparation of yellow basilicum, *ibid*. Emollient ointment, *ibid*. Eye ointments, *ibid*. Issue ointment, 591. Ointment of lead *ibid*. Mercurial ointment, *ibid*. Ointment of sulphur, *ibid*. White ointment, 592. See Liniment. Opthalmia. See Eye.

Opiates, efficacious in a cholera morbus, 281. In a diabetes, 289. When proper for the head-ach, 317. Recommended for the tooth-ach, 391.

Are delusive remedies in nervous diseases, 374. See Laudanum. Orange and lemon peel, how to candy, 573. How to preserve orange and lemon juice in the form of syrup, 602.

Ormskirk medicine for the bite of a mad dog, remarks on, 423, note.

Oxycrate, the most proper external application in a fracture, 513.

Oysters of great service in consumptions, 175, note.

Painters. See Miners,

Palsy, the nature of this disorder explained, with its causes, 377, 373. Medical treatment, ibid.

Paraphrenitis, its symptoms and treatment, 165.

Parents, their interested views in the disposal of their children in marriage, often a source of bitter repentance, 123, note. See Fathers, and Mothers.

Passions, intemperance the abuse of, 102. Have great influence both in the cause and cure of diseases, 117. Anger, ibid. Fear, ibid. Grief, 121. Love, 123. Religious melancholy, 124. The best method of counteracting the violence of any of the passions, ibid.

Peas, parched, good in cases of flatulency, 323.

Peruvian bark. See Bark.

Penis, ulcerated, cured, and partly regenerated, by a careful attention to cleanliness, 450, note.

- Peripneumony, who most subject to, 166. Its causes, symptoms, and proper regimen, ibid. 167.
- Perspiration, insensible, the obstruction of, disorders the whole frame, 128. The various causes of its being checked, 129. Changes in the atmosphere, ibid. Wet clothes, 130. Wet feet, ibid. Night air, ibid. Damp beds, 131. Damp houses, 132. Sudden transitions from heat to cold, 133.

Philosophy, advantages resulting from the study of, xviii.

Phrenitis. See Brain.

Phymosis described, and how to treat, 441.

Physicians, ill consequences of their inattention to the management of children, 29. Are liable to spread infection, 115, note. Their custom of prognosticating the fate of their patients, a bad practice, 119. Are seldom called in, until medicine can give no relief, 155. The faculty oppose every salutary discovery, xvii.

Pickles, provocatives injurious to the stomach, 80.

- Piles, bleeding and blind, the distinction between, 299. Who most subject to the disorder, ibid. General causes, 300. Medical treatment of, ibid. Periodical discharges of, ought not to be stopped, 301. Proper treatment of the blind piles, ibid. External ointments of little
- Pills, purging, proper form of, for an inflammation of the intestipes, 266. The general intention of this class of medicines, 593. Preparation of the composing pill, ibid. Fœtid pill, ibid. Hemlock pill, 594. Mercurial pill, ibid. Mercurial sublimate pills, ibid. Plummer's pill, 595.

Purging pill, ibid. Pill for the jaundice, ibid. Squill pills, 596. Strengthening pills, ibid.

- Pins ought never to be used in the dressing of children, 35. Swallowed, discharged from an ulcer in the side, 518, note.
- Plasters, the general intentions of, and their usual basis, 596. Preparation of the common plaster, 597. Adhesive plaster, *ibid*. Anodyne plaster, *ibid*. Blistering plaster, *ibid*. Gum plaster, 598. Mercurial plaster, *ibid*. Stomach plaster, *ibid*. Warm plaster, *ibid*. Wax plaster, 599.
- Pleurisy, the nature of the disorder explained, with its causes, 160. Symptoms, *ibid.* Regimen, 161. Medical treatment, *ibid.* A decoction of seneka reckoned a specific in, 164. Bastard pleurisy, 165.
 Plumbers. See Miners.
- Poisons, the nature and cure of, a general concern, and easily acquired, 412. Mineral poisons, 414. Vegetable poisons, 415. Bites of poisonous animals, 416. Bite of a mad dog, *ibid*. Bite of a viper, 423. The practice of sucking the poison out of wounds recommended, *ibid*. *ncte*. Poisonous plants ought to be destroyed in the neighbourhood of towns, 425. Negro remedy to cure the bite of a rattle-snake, 426. General rules for security against poisons, *ibid*.
- Poor living, the dangers of, 60.
- Porters subject to disorders of the lungs, 58.
- Postures, confined, injurious to the health of sedentary artists, 66.
- Poverty, occasions parents to neglect giving their children proper exercise, 44. Destroys parental affection, *ibid. note.* Not only occasions, but aggravates many of the diseases of labourers, 61. The poor great sufferers by the sale of bad provisions, 77. And by bad air in large cities, 88.

Poullices proper for inflamed wounds, 499.

- Powders, general instructions for making and administering, 599. Astringent powder, preparation and doses of, *ibid*. Powder of bole, *ibid*. Carminative powder, 600. Diuretic powder, *ibid*. Aromatic purging powder, *ibid*. Saline laxative powder, *ibid*. Steel powder, 601. Sudorific powder, *ibid*. Worm powder, *ibid*. Purging worm powder, *ibid*. Powder for the tape-worm, 602.
- Pox, small, who most liable to, and at what seasons, 201. Its causes and symptoms, *ibid.* 202. Favourable and unfavourable symptoms in, *ibid.* Regimen, 203. How the patient ought to be treated during the eruptive fever, 204. Children in this disorder ought not to lie together in the same bed, 205. Should be allowed clean linen, *ibid.* Patients under this disorder ought not to appear in public view, 206. Medical treatment, *ibid.* The secondary fever, 209. When and how to open the pustules, 210. Of inoculation, 212.
- Pregnancy, how to treat vomiting when the effect of, 285. Rules of conduct for women under the disorders incident to, 460. Causes and symptoms of abortion, 461. How to guard against abortion, *ibid*. Treatment in cases of abortion, 462. Child birth, *ibid*.
- Prescriptions, medical, patients exposed to danger by their being written in Latin, xx.
- Provisions, unsound, the sale of, a public injury, 77.

Puerperal fever. See Fever.

Purges, the frequent taking of them renders the habitual use of them necessary, 126. Their efficacy in agues, 149. Proper form of, for an inflammation of the intestines, 266. Cooling purges always proper in a gonorrhœa, 430. Midwives too rash in the giving of purges, 468, note. Form of a gentle purge for infants disordered in the bowels, 472. For the thrush, 474.

Pustules in the small-pox, favourable and unfavourable appearances of, 202. The suppuration of, to be promoted, 207. When, and how to open, 210.

Putrid fever. See Fever.

Quacks, put out more eyes than they cure, 399.

Quackery, how to destroy, xx.

Quakers, their modes of dressing recommended, 101.

Quinsey, a common and dangerous disorder, and to whom most fatal, 242. Its causes, *ibid*. Symptoms, 243. Regimen, 244. Medical applications, 245. How to promote suppuration, 246. How to nourish the patient when he cannot swallow, *ibid*. Advice to persons subject to this disorder, 247.

toms, *ibid*. Regimen and medical treatment, 249, 250.

Rattlesnake, Negro remedy for the cure of its bite, 426.

Regimen ought to co-operate with medicine to accomplish the cure of diseases, x. Will often cure diseases without medicine, 141. See Aliment.

Religion, true, calculated to support the mind under every affliction, 124. The instructions in, ought not to dwell too much on gloomy subjects, ibid.

Remitting fever. See Fever.

Repletion, impairs the digestive power, 84. Diseases occasioned by, 85. How to treat a looseness produced by, 281.

Resentment, the indulgence of, injurious to the constitution, 117.

Resins, and essential oils, the proper menstruum for, 603.

Respiration, how to restore in a drowned person, 523.

Rheumatism, acute and chronic, distinguished, 343. Causes, *ibid.* Symptoms, 344. Medical treatment, *ibid.* Cautions to persons subject to this disorder, 347.

Rickets, the appearance of, in Britain, dated from the growth of manufactures and sedentary employments, 43. The causes of, 485. Symptoms, 486. Regimen, and medical treatment, 487.

Rollers, pernicious tendency of applying them round the body of infants, 35.

Romans, ancient, their great attention to the cleanliness of their towns, 109, note.

Roses, conserve of, its great virtue against hæmorrhages, 300. 350.

Rosemary, the external application of, a popular remedy for the cramp, 395, note.

Ruptures, are chiefly incident to children and very old persons, 514. The causes respectively, *ibid*. Method of treatment, 515. Cutting should be avoided if possible, 516. Cautions for persons afflicted with a rupture, *ibid*. Often prove fatal before discovered, *ibid*. note, Rutherford, Dr, his preparation for the cure of a dysentery, 311, note. Soilors, their health injured by change of climate, bard weather, and bad provisions, 67. Many of their diseases spring from intemperance, *ibid*. Ought to guard against wet clothes, *ibid*. How the ill effects of salt provisions might be corrected, *ibid*. Peruvian bark the best antidote to sailors on a foreign coast, 64. Cleanliness greatly conducive to their health, 110.

Sal prunella, its good effects in a quinsey, 245.

Saline draughts, of good use for stopping a vomiting, 286. Preparation of, for this purpose, *ibid*. Peculiarly good in the puerperal fever, 468.

Salivation not necessary in the cure of the venereal disease, 444.

Sarsaparilla, a powerful assistant in venereal cases, 446.

Scabbed head in children, difficult to cure, 480. Medical treatment, ibid. Scarlet fever. See Fever.

School, sending children there too young, its bad consequences, 45. Ought to be seated in a dry air, and not to be too much crowded, 52. Scirrhus in the liver, proper regimen in the case of, 278. See Cancer.

Scrophula, nature of this disease, and its causes, 352. Symptoms, and regimen, ibid. 353. Medical treatment, ibid.

- Scurvy, why prevalent among the English, 79. Where most prevalent, and the two distinctions of, *ibid.* 347. Causes of, *ibid.* Symptoms and cure, 348. Instructions to sea-faring men, 349. Extraordinary effects of milk, *ibid.* Proper liquors, 350.
- Sedentary life, includes the greater part of the human species, 64. Few persons follow agriculture who are capable of other business, *ibid*. Sedentary and active employments ought to be intermixed, for the sake of health, 65. Artists suffer from unwholesome air, by being crowded together, *ibid*. The postures artists are confined to, injurious to health, 66. Disorders produced by, *ibid*. Cautions offered to the sedentary; 68. Sedentary amusements improper for sedentary persons, 67. Hints relating to improper food, 68. Exercise a surer relief for low spirits than drinking, *ibid*. Gardening a wholesome amusement for the sedentary, *ibid*. Disorders occasioned by intense study, 70. Dietetical advice to the sedentary, 84. Sedentary occupations better adapted to women than men, 94, note.

Sea water, a good remedy in the King's evil, 353.

Senses, disorders of, 399.

- Scion, sometimes has extraordinary effects in an inflammation of the eyes, 240. Is of service for preventing apoplexies, 364. The best method of making it, 377.
- Shoes, tight, the bad consequences resulting from, 100. The high heels of women's shoes, 101.
- Sibbins, a venereal disorder so termed in the west of Scotland, how to cure, 450, note.
- Sick, the mutual danger incurred by unnecessary visitors to, 112. Persons in health to be kept at a distance from the sick, 113. Proper nurses ought to be employed about them, 114. Instructions for avoiding infection, 115. Physicians too unguarded in their visits to them, *ibid.* note. Tolling of bells for the dead very dangerous to, 119. Their fears ought not to be alarmed, 120.

646

Sight injured by studying by candle-light, 72.

Simples, a list of those proper to be kept for private practice, 562.

Sinapisms, the general intentions of, 568. Directions for making of, *ibid.* Sleep, the due proportion of, not easy to fix, 96. How to make it refreshing, 97. Complaints of the want of, chiefly made by the indolent, *ibid.* Heavy suppers cause uneasy nights, 98. Anxiety destructive of sleep, *ibid.* That in the fore-part of the night most refreshing, *ibid.* Early risers the longest livers, *ibid. note.*

Sleeping in the sun, the danger of, 60.

Small-pox. See Pox.

- Smell, injuries to which the sense of, is liable, with the remedies applicable to, 405.
- Scap, Alicant, recommended in the stone, 294. Soap lees, how to take, ibid.

Solanum. See Night-shade.

Soldiers, exposed to many disorders from the hardships they undergo, 61. Ought to be employed in moderate labour in times of peace, *ibid. note.*

Spine, often bent by artists working in unfavourable postures, 67.

- Spirit, rectified, the direct menstruum for resins and essential oils of vegetables, 603. Of wine, camphorated, how to prepare, 608. Spirit of Mindererus, *ibid*.
- Spirits, lowness of, the general forerunner of a nervous fever, 181. The proper remedies for, 391. Cautions to persons under this complaint, ibid.

Spirituous liquors, when good in the colic, 265. And for gouty complaints in the stomach, 323. Should be avoided by all persons afflicted with nervous disorders, 372. The use of, often fatal, 595.

Spitting of blood. See Blood.

Sponge, may be used to supply the want of agaric as a styptic, 498, note. Its use in extracting substances stopped in the gullet, 520.

Sports, active, far more wholesome than sedentary amusements, 95. Golf, a better exercise than cricket, ibid. note.

Spots in the eye, how to treat, 402 ...

Squinting, how to correct the habit of, ihid.

Stays, a ridiculous and pernicious article of female dress, 36. 100. The wearing of, tends to produce cancers in the breasts, 408.

Sternutatories, preparations of, recommended for restoring lost smell, 405. Sticking-plaster is the best application for slight wound, 498.

Stomach, exercise the best cure for disorders of, 94. Inflammation of, a disorder that calls for speedy assistance, 262. Its causes, *ibid*. Symptoms, 263. Regimen, *ibid*. Medical treatment, *ibid*. Pain in, its causes, 322. Remedies for, 323. Instructions for persons subject to, 324.

Stone, the formation of, in the bladder, explained, 128. This disorder how distinguished from the gravel, 291. Causes and symptoms, *ibid*. Tegimen, 292. Medical treatment, *ibid*. Alicant soap and lime-water, how to take for this disorder, 293. The uva ursi, a remedy in present request for, 294.

Stool, loose, the benefit of, to children, 54. Proper treatment of, when excessive, *ibid.* The discharge by, cannot be regular, if the mode of living be irregular, 125. One in a day generally sufficient for an adult,

INDEX.

ibid. How to produce a regularity of, 126. Frequent recourse to medicines for costiveness, injurious to the constitution, ibid.

Storck, Dr, his method of treating cancers, 410.

Strabismus. See Squinting.

- Strains, proper method of treating, 513. The safest external applications, 514, note.
- Strangury, from a blistering plaster, how to guard against, 163. In the small-pox, how to relieve, 207. From a venereal cause, described, with its proper treatment, 441.

Strangulation, course of treatment for the recovery of persons from, 538. Strasburgh, successful treatment of a miliary fever there, 196. note.

Strength, the folly of trials from emulation, 58, 61.

Study, intense, injurious to health, 70. The disorders occasioned by, *ibid*. Character of a mere student, 73. Hints of advice to studious persons, *ibid*. Danger of their having recourse to cordials, 74. Health often neglected while in possession, and laboured for after it is destroyed, 75. No person ought to study immediately after a full meal, 76. Diatetical advice to the studious, 84. The general effects of, on the constitution, 369.

Sublimate, corrosive, how to administer in venereal cases, 445.

Suffocation, by the fumes of charcoal, liable to happen in close chambers. 527. General causes of suffocation, 537. Overlaying of infants, *ibid*. Sugar, an improper article in the food of children, 40.

Sulphur, a good remedy for expelling worms, 327. And for the itch, 355. Suppers, ought not to destroy the appetite for breakfast, 85. Heavy suppers sure to occasion uneasy nights, 89.

Surgery, many of the operations of, successfully performed by persons unskilled in anatomy, 491. Humanity induces every one more or less to be a surgeon, *ibid*.

Sweating, generally excited in an improper manner, in fevers, 146, 157.

Swoonings, the several causes of, described, 386. Proper treatment of this disorder, 387. 531. Cautions to persons subject to them, 534.

Sydenham, Dr, his method of treating fevers in children from teething, 484. Symptoms, diseases better distinguished by, than by the systematical ar-

rangement of, 137. The differences of sex, age, and constitution, to be considered, *ibid*. Diseases of the mind to be distinguished from those of the body, 138.

Syncope, proper treatment in, 531.

Syrups, the general intention of, 602. How to make simple syrup, and to modify it for particular purposes, *ibid*.

Tacitus, his remark on the degeneracy of the Roman ladies, 27, note.

Tallow-chandlers, and others working on putrid animal substances, cautions to, 57.

Tapping for the dropsy, a safe and simple operation, 336.

Tar, Barbadoes, its efficacy in the nervous colic, 271.

Tartar, soluble, a good remedy for the jaundice, 332. Cream of, a good remedy in a dropsy, 336. And rheumatism, 345.

Taste, how to restore the sense of, when, injured, 406.

Taylors, are exposed to injuries from breathing confined air, 65. Are subject to consumptions, *ibid. note.* Often lose the use of their legs, 66. Hints of instruction offered to them in regard to their health, 68. Tea, the customary use of, injurious to female constitutions, 30. Destroys their digestive powers, and produces hysterics, 76. The bad qualities of, principally owing to imprudence in the use of it, *ibid*. Green, chewing of, a remedy for the heart-burn, 369. Has a powerful effect upon the nerves, 378, note. Is bad for persons troubled with flatulences, 390.

Teething, the disorders attending, 483. Regimen, and medical treatment. in, 484. Applications to the gums, and how to cut them, 485. Temperance, the parent of health, 102.

Testicles, swelled, the cause of, 437. Regimen and medicine in, 438. Treatment under a cancerous or scrophulous habit, 438.

Thirst, how it may be quenched when a person is hot, without danger, 134.

Thought, intense, destructive of health, 70.

- Thrush, in infants, the disorder and its causes described, 473. Medical treatment of, 474.
- Tinctures and elixirs, the proper medicines to exhibit in the form of, 603. Preparations of the aromatic tincture, *ibid*. Compound tincture of the bark, 604. Volatile foetid tincture, *ibid*. Volatile tincture of gum guiacum, *ibid*. Tincture of black hellebore, *ibid*. Astringent tincture, 606. Tincture of myrrh and aloes, *ibid*. Tincture of opium, or liquid laudanum, *ibid*. Tincture of hiera picra, Compound tincture of senna, *ibid*. Tincture of Spanish flies, 606. Tincture of the balsam of Tolu, *ibid*. Tincture of rhubarb, *ibid*.
- Tissot, Dr, character of his Avis au Peuple, xi. His medical course for the cure of the hydrophobia, 422. His directions for the gathering, preparing, and applying agaric of the oak as a styptic, 498, note. Instances from, of the recovery of drowned persons, 525.
- Tobacco, a clyster of a decoction of, useful to excite a vomit, 521. A. clyster of the fumes of, will stimulate the intestines, and produce a stool, 271, note, 524.

Toes, the free motion of, destroyed by wearing tight shoes, 100.

Tooth-ach, the general causes of, 318. Medical treatment of, *ibid*. When recourse must be had to extraction, 320. Directions for cleaning the teeth, *ibid*.

Touch, injuries to which the sense of, is liable, with the remedies applicable to, 407.

Towns, great, the air of, destructive to the children of the poor, 50. Children bred in the country ought not to be sent too early into towns, 51. Cleanliness not sufficiently attended to in, 108. Ought to be supplied with plenty of water for washing the streets, 112. note. The best means to guard against infection in, 144.

Trades, some injurious to health by making artists breathe unwholesome air, 56, 65.

Transitions, sudden, from heat to cold, the ill effects of, to the constitution, 133.

Travellers, the use of vinegar recommended to, 63. Ought to be very careful not to sleep in damp beds, 131. Fevers, why often fatal to, 144.

Trees, should not be planted too near to houses, 90.

Trefoil water, a good remedy in the rheumatism, 46.

Tumours, proper treatment of, 495.

Turnbull, Dr, his method of treating the croup in children, 482, note. Turner's cerate, preparation of, 590.

Vapour of fermenting liquors, noxious nature of, 527.

Vegetables, wholesome corrections of the bad qualities of animal food, 79. Their extraordinary effects in the scurvy, *ibid*.

Venereal disease, why omitted in the first edition of this work, 489. Un-favourable circumstances attending this disorder, 426. The virulent gonorrhœa, 428. Gleets, 435. Swelled testicles, 437. Buboes, 439. Chancres, 440. Strangury, 441. Phymosis, 442. A confirmed lues, 443. American method of curing this disease, 446. General observations, 447. Cleanliness a great preservative against, 449. The use of medicines ought not to be hastily dropped, 451. Is often too much disregarded, *ibid*.

Ventilators the most useful of all modern medical improvements, 89. Vertigo often produced by intense study, 72.

- Vinegar, a great antidote against diseases, and ought to be used by all travellers, 63. Should be sprinkled in sick chambers, 115, 157, 189. Is of considerable service in the bite of a mad dog, 420; and in any kind of poison, 424. Its medical properties, 608. Is of use to extract the virtues of several medicinal substances, *ibid*. How to prepare vine-gar of litharge, 609. Vinegar of roses, *ibid*. Vinegar of squills, *ibid*.
 Viper, the bite of, the sufficiency of the grease for the cure of, doubted, 423. Method of treatment recommended, *ibid*.
- Vitriol, elixir of, an excellent medicine in weaknesses of the stomach, 367. And for windy complaints, 373.

Vius, St, his dance, method of cure of, 382.

- Vomits, their use in agues, 148; and in the nervous fever, 182. Cantion for administering in the putrid fever, 190. Ought by no means to be administered in an inflammation of the stomach, 263. Are useful in cases of repletion, 281. Are powerful remedies in the jaundice, 331. Are the first object to be pursued when poison has been received into the stomach, 413. Their use in the hooping-cough, and how to administer them to children, 260. Midwives too rash in the use of, 468, note. Form of a gentle one for infants disordered in the bowels, 472.
- Vomiting, the several causes of, 284. Medical treatment of, *ibid.* Saline draught for stopping of, 285. Causes of, in children, 477. How to be treated, *ibid.* Of blood: See Blood.
- Voyage, a long one frequently cures a consumption, 172. Voyages have an excellent effect on persons afflicted with nervous disorders, 372.
- Ulcers, proper treatment of, according to their different natures, 503. Lime water, a good remedy, 504. Dr Whytt's method of treating them, *ibid.* Fistulous ulcers, 505.

Ureters, and their use, described, 274, note.

Urine, the appearances and quantity of, too uncertain to form any determined judgment from, 127. Dr Cheyne's judgment, as to the due quantity of, not to be relied on, *ibid*. The secretion and discharge of, how obstructed, *vid*. Bad consequences of retaining it too long, 128. Too great a quantity of, tends to a consumption, *ibid*. Stoppage of, its general causes, 275. Caution as to the treatment of, *ibid*. Diabetes, 237. Incontinency of, 289. Suppression of, medical treatment in, 290. Cautions to persons subject to this disorder, 291. Bloody, causes of, 292. Medical treatment of, *ibid*. An obstinate deafness cured by warm urine, 404, note.

Urine doctors, their impudence, and great success from the credulity of the populace, 127, note.

Uva ursi, a remedy in present request for the stone, 294.

Walls, high, unwholesome, by obstructing the free current of air, 90.

Ward's essence, preparation of, 608. His fistula paste, a popular remedy that may deserve trial, 505.

- Wars occasion putrid fevers, by tainting the air with the effluvia of dead carcases, 186.
- Wasps, hornets, or bees, how the bite of, ought to be treated, 424.
- Water, frequently unwholesome by mineral impregnations, 80. Cautions for the choice of, *ibid*. Cold, the danger of drinking when a person is hot, 133.

Water in the head, is a disorder chiefly incident to children, 490. Its causes, symptoms, and proper treatment, *ibid*. The nature of the disorder seldom discovered in due time for cure, 491, note.

- Waters by infusion, how to prepare : Lime water, 610. Compound lime water, *ibid*. Sublimate water, *ibid*. Styptic water, 611. Tar water, *ibid*.
- Waters, simple distilled, their medical uses, 611. Preparation of cinnamon water, *ibid*. Pennyroyal water, 612. Peppermint water, *ibid*. Spearmint water, *ibid*. Rose water, *ibid*. Jamaica pepper water, *ibid*.

Waters, spirituous distilled, how to prepare : Spirituous cinnamon water, 613. Spirituous Jamaica pepper water, ibid.

Watery eye, how to cure, 402.

Weaning of children from the breast, the proper mode of, 38.

Weather, states of, which produce the putrid fever, 186.

Wells, caution to persons going down into them, 89, note. Deep, ought not to be entered until the air in, is purified, 527.

- Whey, an excellent drink in a dysentery, 311. and in the rheumatism,
 - 345. Orange whey, how to make, 156. Alum whey, 613. Mustard whey, ibid. Scorbutic whey, ibid.

Whitlow, 496.

Whytt, Dr, his remedies for flatulences, 389.

Wind. See Flatulences.

- Windows, the danger of throwing them open on account of heat, and sitting near them, 133.
- Wine, good, almost the only remedy necessary in a nervous fever, 134.
- Wines, the medical properties of, 614. Their use in extracting the virtues of medicinal substances, *ibid*. Preparation of anthelminthic wine, *ibid*. Antimonial wine, 615. Bitter wine, *ibid*. Ipecacuanha wine, *ibid*. Chalybeate, or steel wine, *ibid*. Stomachic wine, 616.

Womb, inflammation of, its symptoms, 465. Medical treatment of, *ibid*.
Women, errors in their education pointed out, 27. Why subject to hysterics, 79. Are better adapted to follow sedentary occupations than men, 94, note. In child-bed, often die from their apprehensions of death, 319. Their disorders rendered epidemical by the force of imagination,

119. Every thing that can alarm them to be carefully guarded against, *ibid*. Evil tendency of tolling bells for the dead, *ibid*. How exposed to a miliary fever during pregnancy, 194. Their constitutions injured by living too much within doors, 453. Those who work in the open air almost as hardy as men, *ibid*. Advice to, with reference to the menstrual discharge, *ibid*. At the commencement, 454. Fluor albus, with its proper treatment described, 458. Advice to, at the ceasing of the menses, 459. Rules of conduct during pregnancy, 460. Causes and symptoms of abortion, 461. How to guard against abortion, *ibid*, Treatment in cases of abortion, 462. Instructions at the time of childbirth, *ibid*. Cause of the milk fever, 465. How to guard against the miliary fever, 466. The puerperal fever, 467. General cautions for women in child-bed, *ibid*. Causes of barrenness, 470.

Wool, the best external application in the gout, 339.

Workhouses, poisonous to infants, 50.

- Worms, how to treat a looseness produced by, 283. Three principal kinds of, distinguished, 324. Symptoms of, 325. Causes, *ibid*. Medical treatment for. 326. Remedy for children, 328. General cautions for preserving children from them, 329. Danger of taking quack medicines for them. *ibid*. note.
- Wort, recommended for the scurvy, and proper to drink at sea, 350. Is a powerful remedy in cancerous cases, 411
- Wounds are not cured by external applications, 498. Are cured by nature, 496. Proper course of treatment, 497. How to stop the bleeding, *ibid*. Caution against improper styptics, 498. Method of dressing them, *ibid*. Poultices for inflamed wounds, 599. Regimen in, *ibid*. Writing, hints of advice to those who are much employed in, 74.

Yaws, general hint for the cure of, 450, note.

Young animals, all exert their organs of motions as soon as they are able, 43.

Zinc, the flowers of, a popular remedy for the epilepsy, 380.

PART I.		Of Fear - Page	117
i inci i.		- Grief	121
Df the general Causes of Diseas	ses.	- Love	123
And the second se		- Religious Melancholy	124
CHAP. I.			Sec. 1
OF Children Page Of Diseased Parents -	e 25	CHAP. XI.	
Of Diseased Parents -	30	Of the Common Evacuations	125
Df Clothing of Children -	32	- Stool	ib.
- Food of ditto '	37	- Urine	127
- Exercise of ditto -	42	- Perspiration -	128
- Bad eff cts of unwholesome			
Air upon ditto -	50		129
Nurses	52	- Wet Clothes	130
		- Wet Feet	
CHAP. II.		- Night Air	
Of the Laborious, &c	55	- Damp Beds	131
- the Sedentary	64	- Damp Houses -	132
- the Siudioùs		Sudden Transitions from	
	No.	Heat to Cold -	133
CHAP. III.		A STREET STREET STREET	
Df Aliment	76	PART II.	
		Of Diseases.	
CHAP. IV.			
Dí Air	86	CHAP. XII.	
		Of the Knowledge and Cure of	
CHAP. V.		Diseases	138
Of Exercise	92		-
of Eacroise		CHAP. XIII.	
CHAP. VI.		Fevers in general -	141
Df Sleep	96	Terers in Senor	
- Clothing	99	CHAP. XIV.	
- Clothing	100	Of Intermitting Fevers or	
CHAP. VII.		Agues	147
	102	ingues	2.21
Df Intemperance -	104	CHAP. XV.	
CHAR MITT		Of an Acute Continual Fever	155
CHAP. VIII. Of Cleanliness	107	of an include containant a crea	S. Car
Of Cleaniness	10.	CHAP. XVI.	
and the second sec		Of the Pleurisy -	160
CHAP. IX.	112	Bastard ditto -	165
Of Infection	112	Paraphranitis	ib.
A state of the second stat		T arapinantus	10.
CHAP. X.	717	and a start and a	
Of the Passions -	117	CHAP. XVII.	166
Anger	ib.	Inflammation of the Lungs	166

CHAP. XVIII.	100	CHAP. XXXI.	
Of Consumptions Page	108	Of the Cholera Morbus, and	
		other excessive Discharges	
CHAP. XIX.	200	from the Stomach and bow-	
Of the Slow, or Nervous Fever	180	cls	279
	115	Of a Diarrhœa, or Looseness	
CHAP. XX.	1 ×	Of Vomiting	284
Malignant, Putrid, or Spotted			
Fever	185	CHAP. XXXII.	
1 The second second second		Disorders of the Kidnies and	
CHAP. XXI.		Bladder	287
Miliary Fever	193		1
		Discharge of Urine -	ib.
CHAP. XXII.		Of Suppression of ditto -	290
Remitting Fever -	198	- the Gravel and Stone	291
		and the second	
CHAP, XXIII,		CHAP. XXXIII.	
The Small-pox -	201	Involuntary Discharges of	
Inoculation -	212	Blood	295
		Bleeding at the Nose -	297
CHAP. XXIV.		Bleeding and Blind Piles	299
The Measles	222		302
Scarlet Fever -	227	Vomiting of ditto -	305
Bilious Fever -	228	Bloody Urine	306
			308
CHAP. XXV.		Cœliac Passion	313
St Anthony's Fire -	229		
		CHAP. XXXIV.	
CHAP. XXVI.		Of the Head-ach -	314
Inflammation of the Brain	234		318
	and the	Ear-ach	321
CHAP. XXVII.		Pain of the Stomach, &c.	322
Inflammation of the Eyes	237		
		CHAP. XXXV.	
CHAP. XXVIII.		Of Worms	324
The Quinsey -	242		
Malignant ditto -	248	CHAP. XXXVI.	
0		Of the Jaundice	329
CHAP. XXIX.	1 miles		
Colds and Coughs -	252	CHAP, XXXVII.	
A Common Cough -	ib.	Of the Dropsy	332
Hooping-Cough	258		
		CHAP. XXXVIII.	
CHAP. XXX.		Of the Gout	337
Inflammation of the Stomach	262	Rheumatism	351
of the Intestines			1.19
Of the Colic		CHAP. XXXIX.	
Inflammation of the Kidnies		Of the Scurvy -	347
of the Bladder	275	Scrophula -	351
the second second and a second s			955
of the Liver	276	Itch	355

654 -

CHAP. XL.		Bites of poisonous Insects	424
of the Asthma	358	of the Rattle Snake	425
ARC - PRIVILLE CONTRACT OF THE		CHAD STUIT	
CHAP. XLI.	261	Of the Venereal Disease	426
of the Apoplexy -		Virulent Gonorrhœa	428
AUAD VIII		- Gleets	425
CHAP. XLII.		- Swelled Testicle -	437
		- Buboes	439
- Want of Appetite - - Heartburn	367	- Chancres	440
- Heattbulk	50.	- A Confirmed Lues, or Pox	
CHAP. XLIII.		General Observations -	447
Df Nervous Diseases -	369		
- Melancholy -		CHAP. XLVIII.	
- the Palsy	377	Diseases of Women -	452
- the Epilepsy, or Falling		Of the Menstrual Discharge	453
Sickness	379	-Pregnancy	460
- the Hiccup	382	- Child-birth	462
- Cramp of the Stomach	384	- Barrenness	470
- the Night-mare -	385		-
Swoonings	386	CHAP. XLIX.	
- Flatulencies, or Wind	388	Diseases of Children -	471
- Low Spirits	391 .	Of the Meconium -	473
- Hysteric Affections -	392	- the Apthæ or Thrush	ib.
- Hypochondriac Affections	395	- Accidities	474
		- Galling and Excoriation	476
CHAP. XLIV.		- Stoppage of the Nose -	ib.
Disorders of the Senses -			477
of the Eye -	ib.	- a Looseness -	478
A Gutta-Serena	400	- Eruptions	479
A Cataract	401	the Croup	481
Short Sightedness -	ib.	- Teething	483
Seeing only at too great a distan	ice ib.	- the Rickets -	485
Squinting	ib.	Convulsions	488
Spots, or Specks -	402		490
Bloodshot Eye	ib.		
Watery, or Weeping Eye	ib.	CHAP. L.	491
Of the Ear	ib.		492
- Taste and Smell -			
Touch	407	- Wounds	
		- Burns	500
CHAP. XLV.	ih	the second s	501
Of a Scirrhous and Cancer	10.	Ulcers	503
	2 1		
CHAP. XLVI.	412	CHAP. LI.	
Of Poisons	414	Of Dislocations	505
- Mineral Poisons -	415	Dielocation of the law -	506
- Vegetable ditto - Bites of poisonous Animals	416	of the Neck -	507
of the Mad Dog -	ib.	of the Ribs -	508
of the Viper -	429	of the Shoulder	ib.
or the treet			

655

Dislocation of the Elbow - 509	OF N
	JA I
of the Wrist and	Effects of Extreme Cold 529
Fingers ib.	
Dislocation of the Thigh - 510	
of the Knees - ib.	CHAP. LIV.
of the Ancles - ib.	Of Fainting Fits, and other
of the Toes - ib.	Cases which require imme-
	diate Assistance - 531
CHAP. LII.	Of Intoxication 535
Of broken Bones, &c 'ib.	- Suffocation and Strangling 537
Strains 513	- Persons who expire in Con-
- Ruptures 514	vulsion Fits 539
	AND I - ALCOURT TO MANY
CHAP. LIII.	CHAP. LV.
Of Casualties 516	Cautions concerning Cold Bath-
- Substances stopt between	ing, and drinking the Mi-
the Mouth and Stomach 518	
Of Drowned Persons - 523	a segurarili elitad

CONTENTS OF THE APPENDIX.

INTRODUCTION - Pag	e 557-	Gargles' Page 582
List of Simples	562	Infusions ib.
		Juleps 586
Medicinal Preparations.		Mixtures 888
Balsams	565	Ointments, Liniments, and
Boluses	566	Cerates
Cataplasms and Sinapisms	567	Pills
Clysters	569	Plaisters - 596
Collyria, or Eye-waters -	570	Powders - 599
Confections	572	Syrups 602
Conserves and Preserves -	ib.	Tinctures, Elixirs, &c 603
Decoctions	573	Vinegars - 608
Draughts	576	Waters by Infusion, &c. 610
Electuaries	577	Simple distilled Waters - 611
Emulsions	580	Spirituous distilled Waters 613
Extracts	581	Wheys ib.
Fomentations	ib.	Wines 614

GLOSSARY	-	1	-	Page 617
INDEX -	A Contraction	St. or is		625

Printed by " uraball & Gall, Edinburgh.

656

