Contributors

Cullen, William, 1710-1790. Thomas, Isaiah, 1749-1831 National Library of Medicine (U.S.)

Publication/Creation

Printed at Worcester, Massachusetts : By Isaiah Thomas ; sold at his bookstore in Worcester, and by him and Company in Boston, MDCCXC [1790]

Persistent URL

https://wellcomecollection.org/works/xwqs6chr

License and attribution

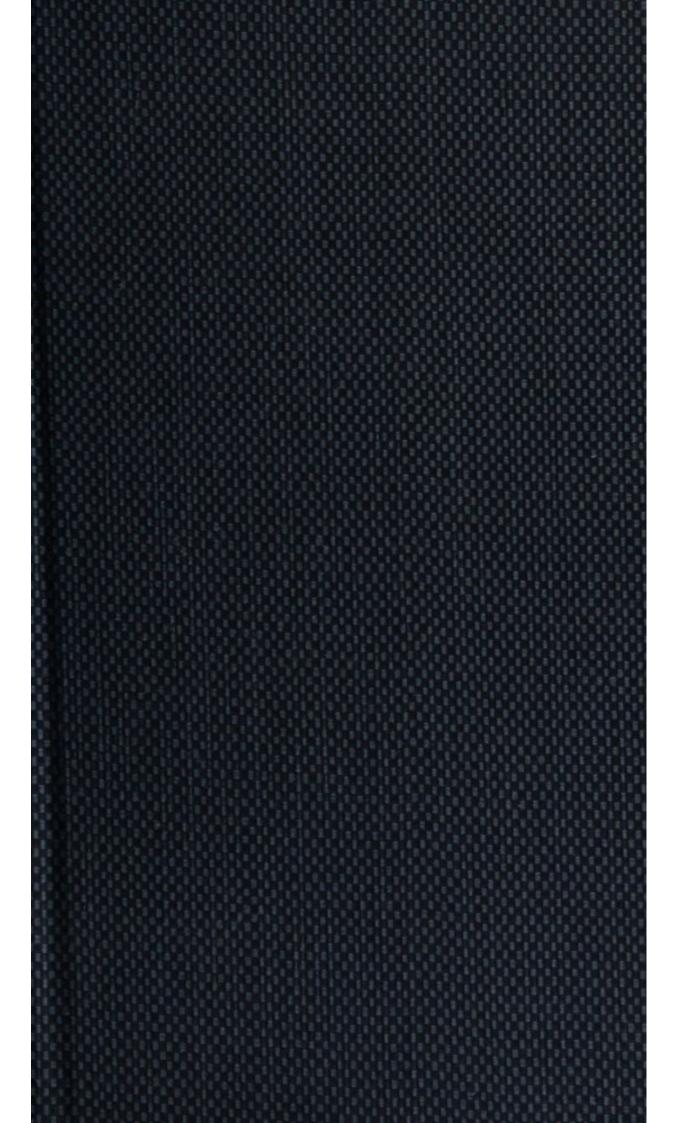
This material has been provided by This material has been provided by the National Library of Medicine (U.S.), through the Medical Heritage Library. The original may be consulted at the National Library of Medicine (U.S.) where the originals may be consulted.

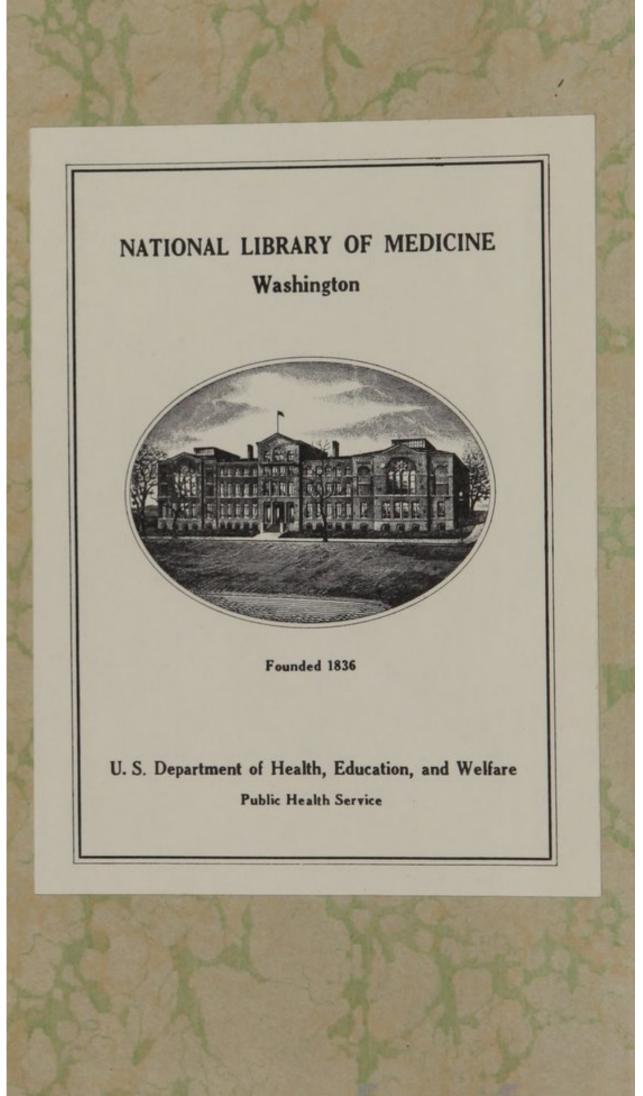
This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

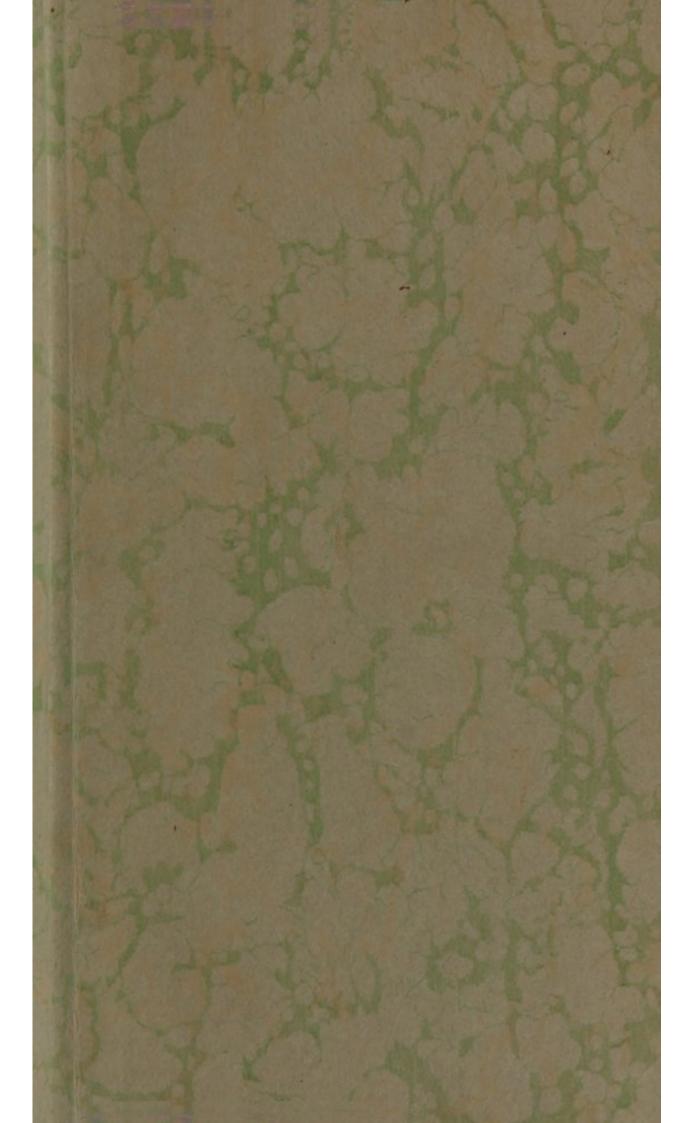
You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.

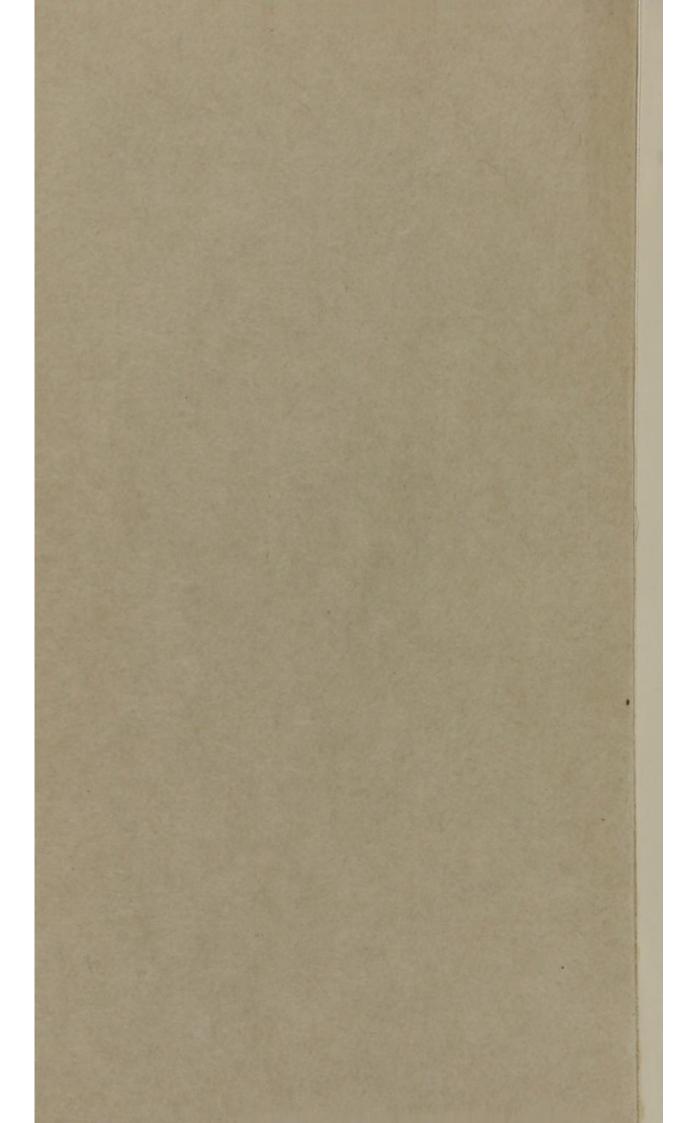


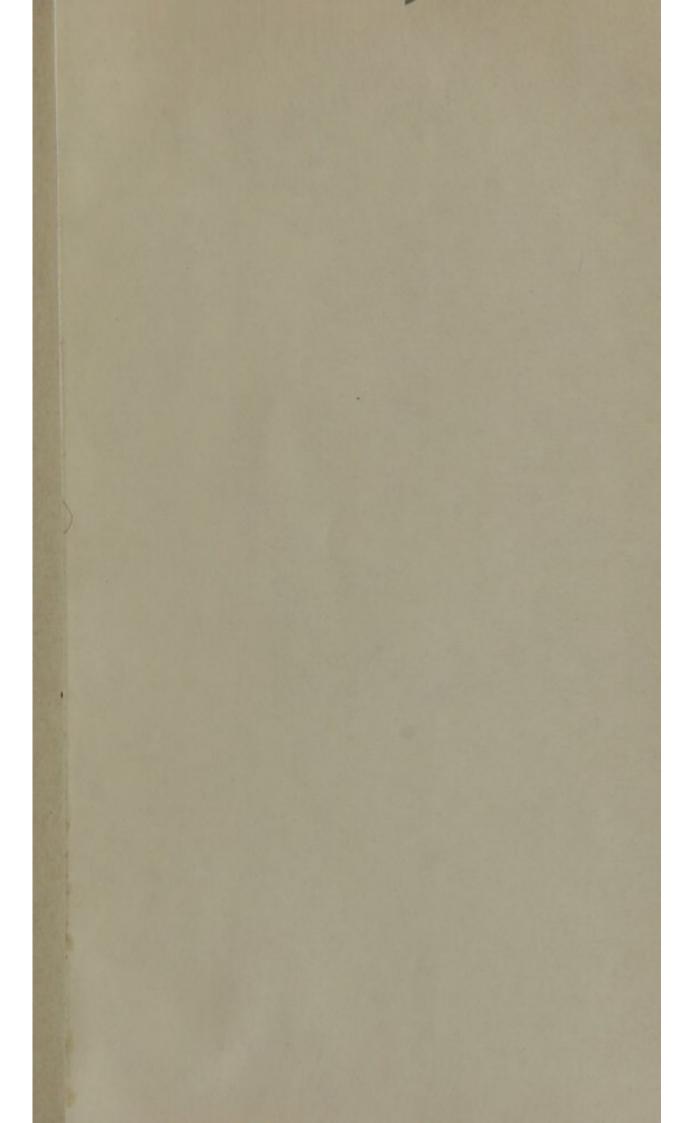
Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org



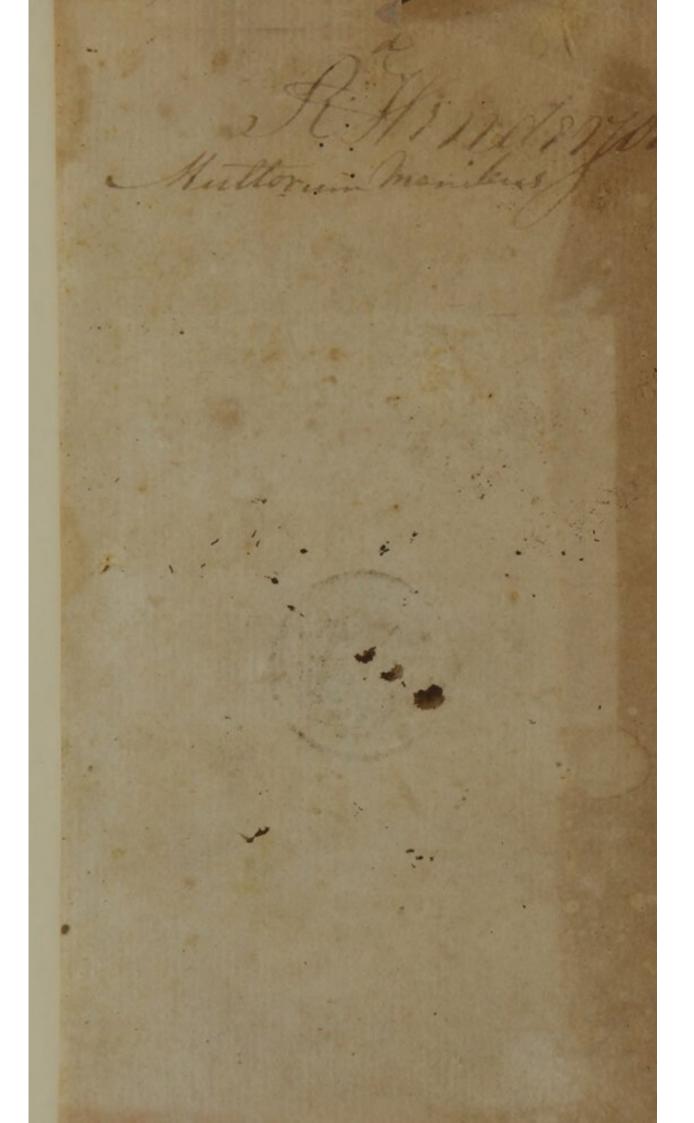


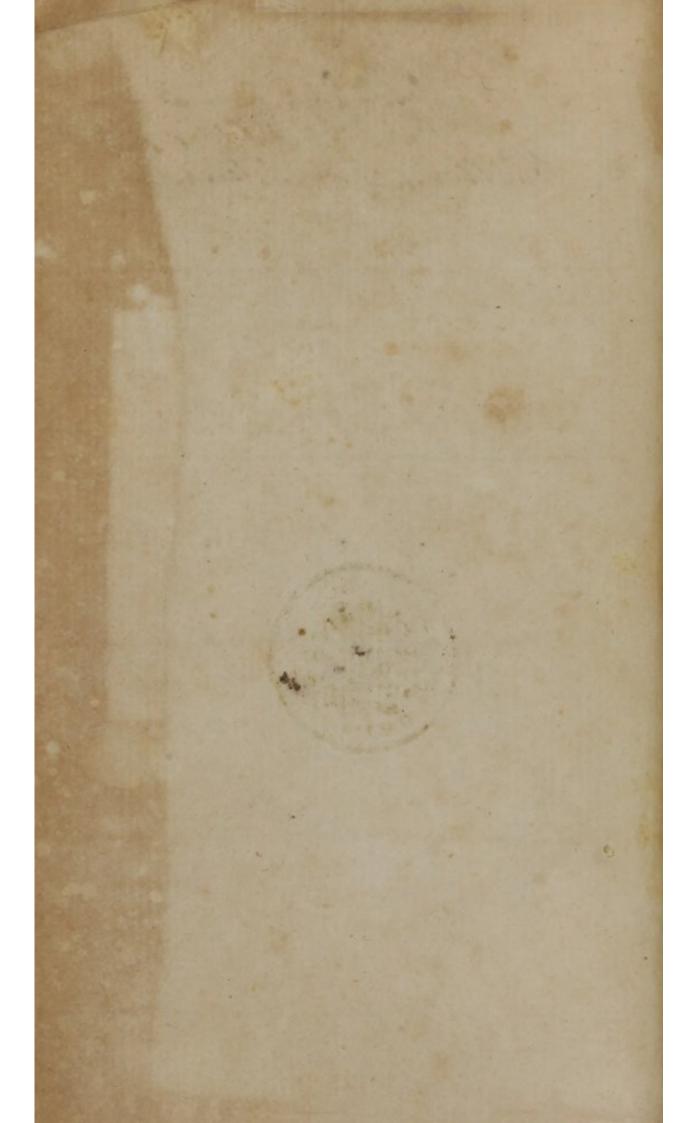


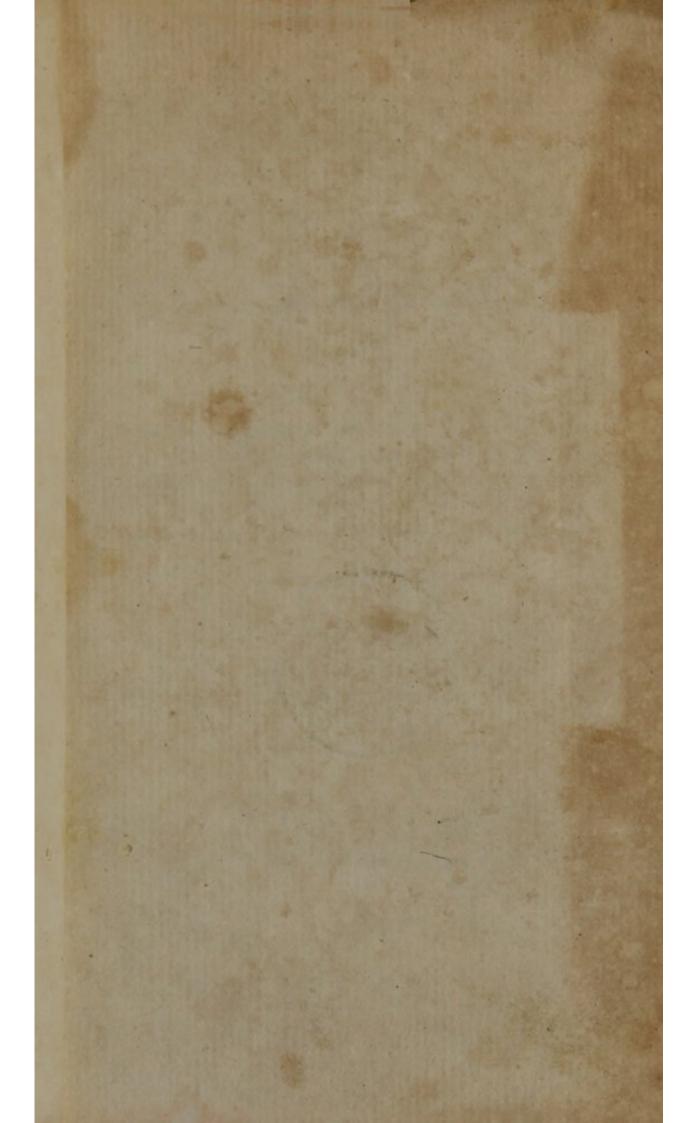


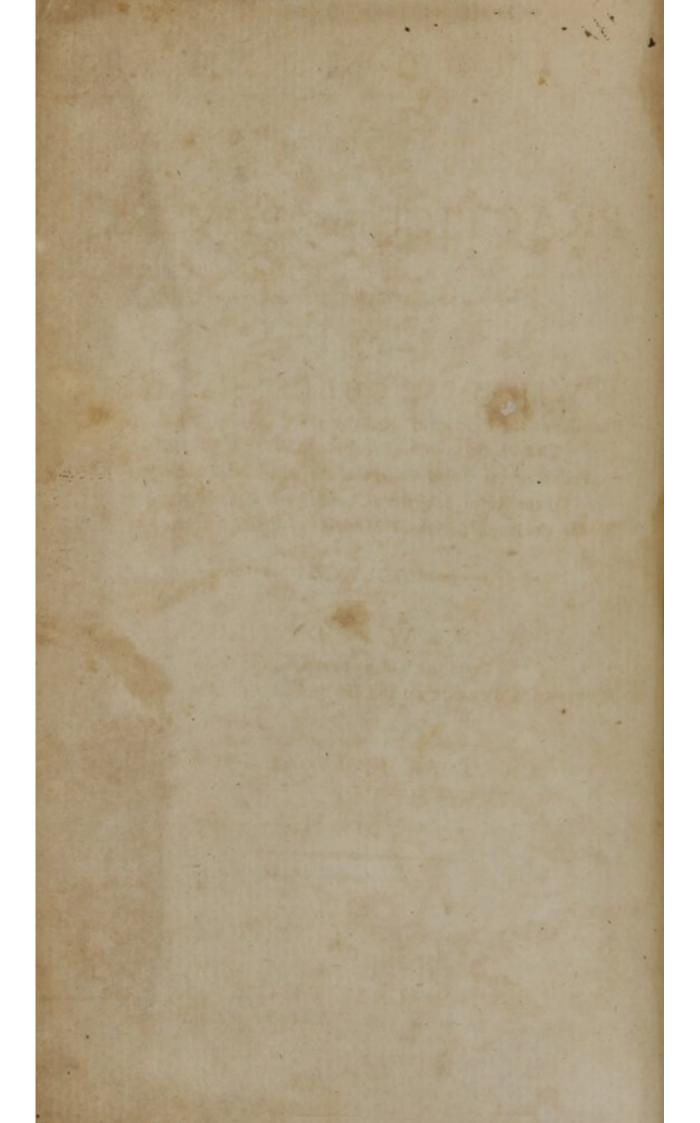












OF THE

ich: Henderson udibris FIRST LINES

PRACTICE OF PHYSIC.

WILLIAM CULLEN, M. D.

Profession of the Practice of Physic in the University of Edinburgh;
First Physician to his Britannic Majesty for Scotland;
Fellow of the Royal College of Physicians of Edinburgh;
Of the Royal Societies of London and of Edinburgh,
Of the Royal Society of Medicine of Paris, &c. &c. &c.

A NEW EDITION.

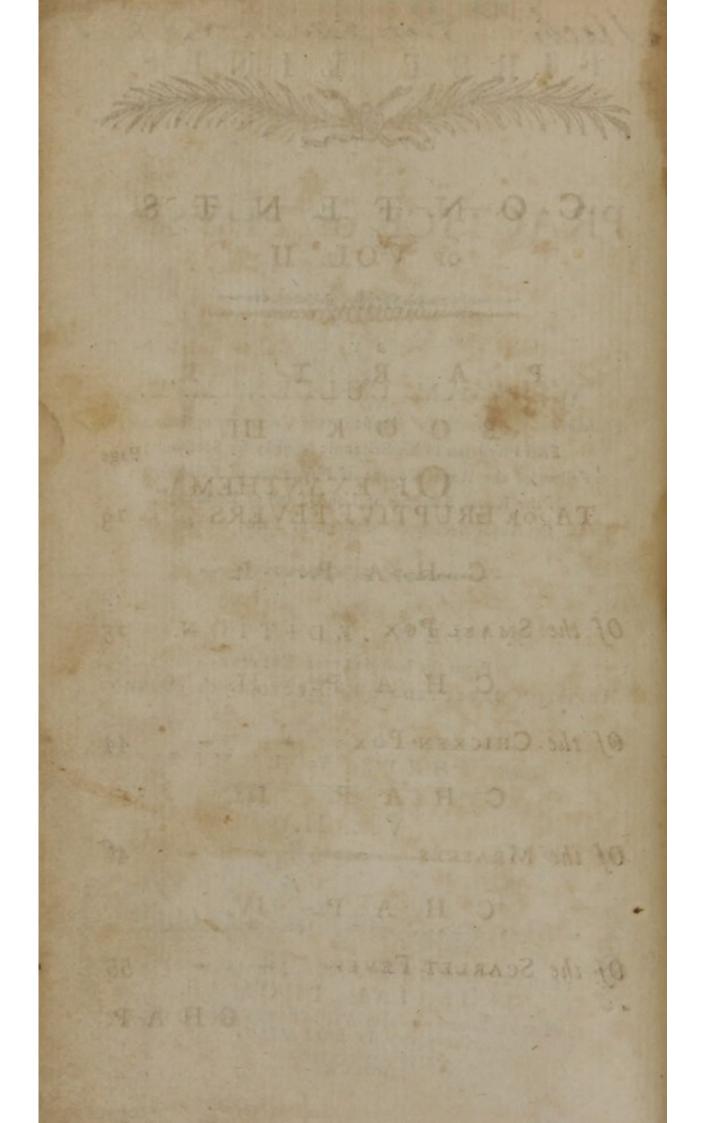
From the Laft BRITISH EDITION, REVISED, CORRECTED and ENLARGED, by the AUTHOR.

IN THREE VOLUMES.

Vol. II.

PRINTED at WORCESTER, MASSACHUSETTS, BY ISAIAH THOMAS. Sold at his BOOKSTORE in WORCESTER, and by him and COMPANY in BOSTON.

MDCCXC.





ART I. P BOOK III. Page OF EXANTHEMA-TA, OR ERUPTIVE FEVERS 13 CHAP. I. Of the SMALL Pox 15 CHAP. II. Of the CHICKEN POX 44. СНАР. III. Of the MEASLES 46 CHAP. IV. Of the SCARLET FEVER 55 CHAP.

viii CONTENTS.
Page CHAP. V.
Of the PLAGUE 64
Sect. I. Of the Phenomena of the Plague 64
Sect. II. Of the Prevention of the Plague 67
Sect. III. Of the Cure of the Plague 74
CHAP. VI.
Of ERYSIPELAS, or St. Anthony's Fire 78
CHAP. VII.
Of the MILIARY FEVER 86
CHAP. VIII.
Of the remaining EXANTHEMATA: URTICARIA, PEMPHIGUS, and APH-
THA 97
BOOK IV.
OF HEMORRHAGIES - 100
TAHO CHAP.

CONTENTS. ix Page CHAP.I. Of HEMORRHAGY in general - 100 Sect. I. Of the Phenomena of Hemor-

rhagy - - - - 102

Sect. II. Of the Proximate Caufe of Hemorrhagy - - - 104

Sect. III. Of the Remote Caufes of Hemorrhagy - - 124

Sect. IV. Of the Cure of Hemorrhagy 126

CHAP. II.

Of the EPISTAXIS, or Hemorrhagy of the Nofe - - - 140

CHAP. III.

Of the HEMOPTYSIS, or Hemorrhagy from the Lungs – – – 151 Sect. I. Of the Phenomena and Caufes of Hemoptyfis – – 151 Sect. II. Of the Cure of Hemoptyfis 160

CHAP

CHAP.

CONTENTS.

X

C H A P. IV.

Page

Of the PHTHISIS PULMONALIS, or Confumption of the Lungs - - 164

Sect. I. Of the Phenomena and Caufes of the Phthifis Pulmonalis - 164

Sect. II. Of the Cure of Phthifis 193

CHAP. V

Of the HEMORRHOIS, or of the Hemorrhoidal Swelling and Flux - 207

Sect. I. Of the Phenomena and Caufes of the Hemorrhois - 207

Sect. II. Of the Cure of Hemorrhoidal Affections - - 218

BOOK IV.

CHAP. VI.

Of the MENORRHAGIA, or the Immoderate Flow of the Menses - 228

C H A P. VII.

Of the LEUCORRHOEA, Fluor Albus, or Whites

CHAP.

237

CONTENTS.

Pa

10 20

20"

C H A P. VIII.

of the Menstrual Flux - 242

C H A P. IX.

10 Of SYMPTOMATIC HEMORRHAGIES 253

Sect. I. Of the HEMATEMESIS, or Vomiting of Blood - 254

Sect. II. Of the HEMATURIA, or the Voiding of Blood from the Urinary Passage - - 264

BOOK V.

OF PROFLUVIA, OR FLUXES WITH PYREXIA - - 273

CHAP. I.

Of the CATARRH - - 275

CHAP. II. Of the Dysentery - - 287

PART II.

OF NEUROSES, OR NERVOUS DIS-231 EASES - - 301 P. BOOK

xi

Page

CONTENTS.

xii

Page

BOOK I.

OF COMATA, OR THE LOSS OF VOLUNTARY MOTIONS 303

CHAP. I. Of Apoplexy - - 3°4 CHAP. II.

Of PALSY - - - 333

BOOK II.

OF ADYNAMIÆ, OR DISEASES CONSISTING IN A WEAKNESS OR LOSS OF MOTION IN EITHER THE VITAL OR NATURAL FUNCTIONS - - 350

CHAP. I.

Of SYNCOPE, or Fainting - 350

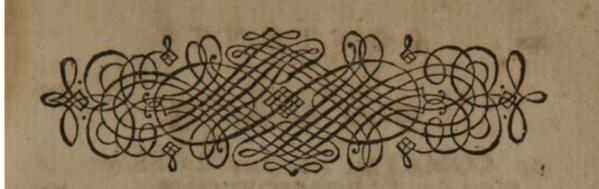
CHAP. II.

Of DYSPEPSIA, or Indigestion. - 363

CHAP. III.

Of HYPOCHONDRIASIS, or the Hypochondriac Affection, commonly called Vapours or Low Spirits - 382

FIRST



FIRST LINES

OF THE

PRACTICE OF PHYSIC.

MONDERCOCCOC

BOOK III.

HONDA Collectore~

OF EXANTHEMATA, OR ERUPTIVE FEVERS.

DLXXXV.

B



Vol. II.

HE diseases comprehended under this title, which make the third Order of Pyrexiæ in our Nofology, are in general fuch as do not arife but upon occasion of a specific contagion applied, which first produces fever, and afterwards an

eruption

14

eruption upon the furface of the body; and which difeases, for the most part, affect perfons but once in the course of their lives.

DLXXXVI.

Whether the character of the Order may be thus limited, or if the Order may be allowed to comprehend also the eruptive fevers produced by a matter generated in the body itself, and likewise those cases of eruption which do not depend upon contagion, or upon a matter generated before the fever, but upon a matter generated in the course of the fever, I am not ready to determine. Of the difeases enumerated by the Nosologists as Exanthemata, there are certainly three different kinds, which may be diftinguished by the circumstances mentioned in this and the preceding paragraph. Of the first kind are the Small Pox, the Chicken Pox, the Meafles, the Scarlet Fever, and the Plague. Of the fecond kind feems to be the Eryfipelas; and of the third kind I judge the Miliaria and Petechia to be. But as I am not fufficiently confident in the facts which should support these distinctions, or which would enable us to apply them in all cafes ; I go on in this book to treat of almost all the exanthemata enumerated by preceding Nofologists, with only some difference in the arrangement from swhat it was in my former editions.

OF PHYSIC.

15

CHAP. I.

OF THE SMALL POX.

DLXXXVII.

HE fmall pox is a difeafe arifing from a contagion of a fpecific nature, which first produces a fever, and on the third or fourth day thereof, produces an eruption of fmall red pimples. These are afterwards formed into pussure, which, in the course of eight days from the time of the eruption, is changed into pus. After this, the matter dries, and falls off in crufts.

DLXXXVIII.

opol

el

AP

This is a general idea of the difeafe; but there are two particular forms or varieties of fort, well known under the appellations of the Diftinct and Confluent, which require to be pecially defcribed.

DLXXXIX.

DLXXXIX.

In the former, or the distinct small pox, the eruptive fever is moderate, and appears to be evidently of the inflammatory kind, or what we name a Synocha. It generally comes on about mid day, with fome symptoms of a cold ftage, and commonly with a confiderable languor and drowfinels. A hot ftage is foon formed, and becomes more confiderable on the fecond and third days. During this course, children are liable to frequent startings from their flumbers; and adults, if they are kept abed, are difposed to much fweating. On the third day, children are fometimes affected with one or two epileptic fits. Towards the end of the third day, the eruption commonly appears, and gradually increases during the fourth ; appearing first upon the face, and fuccessively on the inferior parts, so as to be completed over the whole body on the fifth day,

From the third day the fever abates ; and against the fifth it entirely ceases. The eruption appears first in small red spots, hardly eminent, but by degrees rising into pimples. These are generally upon the face in small number ; but even when more numerous, they are separate and distinct from one another. On the fifth or fixth day, a small vessible, containing an almost colourless or whey coloured fluid, appears upon the top of each pimple. For For two days, these vesicles increase in breadth only, and there is a small hollow pit in their middle; so that it is only against the eighth day that they are raised into spheroidical pustules.

Thefe veficles or puftules, from their firft formation, continue to be furrounded with an exactly circular inflamed margin, which, when the puftules are numerous, diffufes fome inflammation over the neighbouring fkin, fo as to give fomewhat of a damafk rofe colour to the fpaces between the puftules. As the puftules increase in fize, if they be numerous on the face, against the eighth day the whole of the face becomes confiderably fwelled; and in particular, the eyelids are fo much fwelled as entirely to fhut the eyes.

As the difease thus proceeds, the matter in the pultules becomes by degrees more opaque and white, and at length of a yellowish colour. On the eleventh day, the fwelling of the face is abated, and the pustules seem quite full. On the top of each a darker spot appears; and at this place the pustule, on the eleventh day, or foon after, is spontaneously broken, and a portion of the matter oozes out; in consequence of which, the pustule is shrivelled, and subfides ; while the matter oozing out dries, and forms a crust upon its surface. Sometimes a little only of the matter oozes out ; and what remains in the puffule becomes thick, and even hard. After some days, both the crufts and the hardened puftules fall off, B 3 leaving leaving the fkin which they covered of a brown red colour ; and it is only after many days that the fkin in thefe places refumes its natural colour. In fome cafes, where the matter of the puftules has been more liquid, the crufts formed by it are later in falling off, and the part they covered fuffer fome defquamation, which leaves in it a fmall pit or hollow.

This is the courfe of things on the face; and fucceffively, the puftules on the reft of the body take the fame. The matter of the puftules, on the arms and hands, is frequently abforbed; fo that, at the height of the difeafe, thefe puftules appear as empty vehicles. On the tenth and eleventh days, as the fwelling of the face fubfides, a fwelling arifes in the hands and feet; but which, again, fubfides as the puftules come to maturity.

When the puftules on the face are numerous, fome degree of pyrexia appears on the tenth and eleventh days, but difappears again after the puftules are fully ripened; or perhaps remains in a very flight degree till the puftules on the feet have finished their course. It is feldom that in the diffinct fmall pox the fever continues longer.

When the puftules on the face are numerous, fome uneafinefs in the throat, with a hoarfenefs of the voice, comes on upon the fixth or feventh day, and a thin liquid is poured out from the mouth. Thefe fymptoms increafe with the fwelling of the face; and the liquids of the mouth and throat becoming coming thicker, are more difficultly thrown out. There is, at the fame time, fome difficulty of fwallowing; fo that liquids taken in to be fwallowed are frequently rejected, or thrown out by the nofe. But all these affections of the fauces abate as the fwelling of the face fubfides.

DXC.

In the other form of fmall pox, or what is called the Confluent, the courfe of the difeafe is, in general, the fame with that we have defcribed; but the fymptoms of every ftage are more violent, and feveral of the circumftances are different.

In particular, the eruptive fever is more violent; the pulfe is more frequent and more contracted, approaching to that flate of pulfe which is found in the typhus; the coma is more confiderable; and there is frequently a delirium. Vomiting, alfo, is a common fymptom, efpecially at the coming on of the difeafe. In very young infants, epileptic fits are fometimes frequent on the firft days of the difeafe, and fometimes prove fatal before any eruption appears; or they ufher in a very confluent and putrid fmall pox.

DXCI.

The eruption appears more early on the third day, and it is frequently preceded or accom-B 4 panied panied with an eryfipelatous efflorefcence. Sometimes the eruption appears in clufters, like that of the meafles. When the eruption is completed, the pimples are always more numerous upon the face, and at the fame time finaller and lefs eminent. After the eruption, the fever fuffers fome remiffion, but never goes off entirely; and, after the fifth or fixth day, it again increafes, and continues confiderable through the remaining courfe of the difeafe.

The veficles formed on the tops of the pimples appear fooner; and while they increafe in breadth, do not retain a circular, but are every way of an irregular figure. Many of them run into one another, infomuch that very often the face is covered rather with one veficle than with a number of puftules. The veficles, fo far as they are any wife feparated, do not arife to a fpheroidical form, but remain flat, and fometimes the whole of the face is of an even furface. When the puftules are in any meafure feparated, their circumference is not bounded by an inflamed margin, and the part of the fkin that is free from puftules is commonly pale and flaccid.

The liquor that is in the puflules changes from a clear to an opaque appearance, and becomes whitifh or brownifh, but never acquires the yellow colour and thick confiftence that appear in the diffinct fmall pox.

DXCII.

OF PHYSIC.

D'XCII.

The fwelling of the face which attends the diftinct fmall pox, when they are numerous, and almost then only, always attends the confluent, comes on more early, and arifes to a greater degree ; but abates on the tenth day, and on the eleventh still more. At this time the pusculates or vesicles break, and shrivelling pour out a liquor that is formed into brown or black crusts, which do not fall off for many days after. Those of the face, in falling off, leave the parts they cover subject to a defquamation, which pretty certainly produces pittings.

On the other parts of the body, the puffules of the confluent fmall pox are more diffinct than upon the face, but never acquire the fame maturity and confiftence of pus as in the properly diffinct kind.

The falivation which only fometimes attends the diffinct fmall pox, very conftantly attends the confluent; and both the falivation and the affection of the fauces abovementioned are, efpecially in adults, in a higher degree. In infants, a diarrhœa comes frequently in place of the falivation.

In the confluent fmall pox, there is often a confiderable putrefcency of the fluids, as appears from petechiæ, from ferous veficles, under which the fkin fhows a difpofition to gangrene, and from bloody urine or other hem-VOL. 2. B 5 orrhagy, orrhagy, all which fymptoms frequently accompany this difeafe.

In the confluent fmall pox, the fever, which had only fuffered a remiffion from the time of eruption to that of maturation, is often, at or immediately after this period, renewed with confiderable violence. This is what has been called the Secondary Fever; and is, in different cafes, of various duration and event.

DXCIII.

We have thus endeavoured to defcribe the various circumftances of the fmall pox ; and from the difference of thefe circumftances, the event of the difeafe may be determined. The whole of the prognofis may be nearly comprifed in the following propositions.

The more exactly the difeafe retains the form of the diftinct kind, it is the fafer ; and the more completely the difeafe takes the form of the confluent kind it is the more dangerous.

It is only when the diftinct kind fhows a great number of pultules on the face, or otherwife, by fever or putrefcency, approaches to the circumftances of the confluent, that it is attended with any danger.

In the confluent fmall pox there is always danger; and this is always more confiderable and certain, according as the fever is more violent and permanent, and efpecially as the marks and fymptoms of putrefcency are more evident. When the putrid difposition is very great, the difease sometimes proves fatal before the eighth day; but in most cases it is on the eleventh that death happens, and sometimes it is put off till the sourceenth or seventeenth day.

Though the fmall pox fhould not be immediately fatal, the more violent kinds are often followed by a morbid ftate of the body, of various kind and event. These confequences, as I judge, may be imputed sometimes to an acrid matter produced by the preceding difease, and deposited in different parts; and sometimes to an inflammatory diathesis produced, and determined to particular parts of the body.

DXCIV.

It is, I think agreed among practitioners, that, in the different cafes of fmall pox, the difference chiefly depends upon the appearance of diftinct or confluent; and, from the above defcription of thefe kinds, it will appear, that they chiefly differ in the period of the eruption, in the number of puffules produced, in the form of the puffules, in the ftate of the matter contained in them, in the continuance of the fever, and laftly in the danger of the difeafe.

DXCV.

23

DXCV.

Upon inquiring into the causes of these differences, we might readily fuspect, that they depended upon a difference of the contagion producing the difeafe. This, however, is not probable ; for there are innumerable inftances of the contagion, arifing from a perfon labouring under the small pox of the diftinct kind, producing the confluent; and on the contrary. Since the practice of inoculation became frequent, we have known the fame variolous matter produce in one perfon the diffinct, and in another the confluent Imall pox. It is therefore highly probable, that the difference of the small pox does not depend upon any difference of the contagion, but upon some difference in the flate of the perfons to whom it is applied, or in the flate of certain circumstances concurring with the application of the contagion.

DXCVI.

To find out wherein the difference in the flate of the perfons to whom the contagion of the fmall pox is applied confifts, I obferve, that the difference between the diffinct and confluent fmall pox confifts efpecially in the number of puffules produced; which, in the diffinct, are generally few; in the confluent, always many. If, therefore, we fhall be able to to difcover what, in the flate of different perfons, can give occasion to more or fewer puftules, we shall probably be able to account for all the other differences of the diffinct and confluent small pox.

DXCVII.

It is evident, that the contagion of the fmall pox is a ferment with respect to the human fluids, and affimilates a great part of them to its own nature; and it is probable, that the quantity thus affimilated, is, in proportion to the bulk of their feveral bodies, nearly the fame in different perfons. This quantity paffes again out of the body, partly by infenfible perspiration, and partly by being deposited in pustules ; but if the quantities generated be nearly equal, the quantities paffing out of the body by the two ways mentioned are very unequal in different perfons; and therefore, if we can explain the caufes which determine more to pafs by the one way than by the other, we may thereby difcover the caufes which give occasion to more pustules in one perfon than in another.

DXCVIII.

The causes which determine more of the variolous matter to pass by perfpiration, or to form puscules, are probably certain circumstances of the skin, that determine more or less lefs of the variolous matter to flick in it, or to pass freely through it.

DXCIX.

The circumstance of the skin, which seemsto determine the variolous matter to flick in it, is a certain state of inflammation, depending much upon the heat of it : Thus we have many inflances of parts of the body, from being more heated, having a greater number of pustules than other parts. In the prefent practice of inoculation, in which few pultules are produced, much feems to be owing to the care that is taken to keep the fkin cool. Parts covered with plafters, especially with those of a stimulant kind, have more pustules than other parts. Further, certain circumstances, fuch as adult age, and full living, determining to a phlogiftic diathefis, feem to produce a greater number of puflules ; while the contrary circumftances have contrary effects.

DC.

It is therefore probable, that an inflammatory flate of the whole fyftem, and more particularly of the fkin, gives occasion to a greater number of puscules; and the causes of this may likewife produce most of the other circumflances of the confluent fmall pox; fuch as the period of eruption; the continuance of the

OF PHYSIC.

the fever ; the effusion of a more putrescent matter, and less fit to be converted into pus ; and what arises from thence, the form and other circumstances of the pussual puss.

DCI.

Having thus attempted to account for the chief difference which occurs in the flate of the fmall pox, we fhall now try the truth of our doctrine, by its application to practice.

DCII.

In confidering the practice, we view it first,, in general, as fuited to render the difease more generally benign and safe, and this by the practice of inoculation.

DCIII.

It is not neceffary here to defcribe the operation of inoculating; and what we name the practice of inoculation, comprehends all the feveral measures which precede or follow that operation, and are supposed to produce its falutary effects.

These measures are chiefly the following.

1. The choosing for the subject of inoculation perfons otherwise free from difease, and not liable, from their age or other circumstances, to any incidental difease.

27

2. The choofing a perfon at the time of life most favourable to a mild difease.

3. The choofing for the practice a feason the most conducive to the mildness of the difease.

4. The preparing the perfon to be inoculated, by abstinence from animal food for fome time before inoculation.

5. The preparing the perfon by courses of mercurial and antimonial medicines.

6. The taking care, at the time of inoculation, to avoid cold, intemperance, fear, or other circumstances which might aggravate the future difease.

7. After these preparations and precautions, the choosing a fit matter to be employed in inoculation, by taking it from a person of a sound constitution, and free from any disease or sufficient of it; by taking it from a person who has had the small pox of the most benign kind; and, lassly, by taking the matter from such persons, as soon as it has appeared in the pusculates, either in the part inoculated, or on other parts of the body.

8. The introducing, by inoculation, but a fmall portion of the contagious matter.

9. After inoculation, the continuing the vegetable diet, as well as the employment of mercurial and antimonial medicines ; and, at the fame time, frequently employing purgatives.

10. Both before and after inoculation, taking care to avoid external heat, either from the

28

the fun, artificial fires, warm chambers, much clothing, or being much in bed; and, on the contrary, exposing the perfon to a free and cool air.

11. Upon the appearance of the eruptive fever, the rendering that moderate by the employment of purgatives; by the use of cooling and antifeptic acids; and especially by exposing the person frequently to a cool and even a cold air, at the same time giving freely of cold drink.

12. After the eruption, the continuing the application of cold air, and the use of purgatives, during the course of the disease, till the puscules are fully ripened.

DCIV.

Thefe are the measures proposed and practifed in the latest and most improved state of inoculation; and the advantages obtained by the whole of the practice, or at least by most of the measures abovementioned, are now afcertained by a long experience to amount to this, That, in ninety nine cases of the hundred, inoculation gives a distinct small pox only, and that also very generally of the mildest form; but it will still be useful, for the proper conduct of inoculation, to consider the importance and utility of the feveral measures abovementioned, that we may thereby more exactly determine upon what the advantages of inoculation more certainly depend.

DCV.

DCV.

As the common infection may often seize persons labouring under another disease, which may render the fmall pox more violent, it is obvious that inoculation must have a great advantage, by avoiding fuch concurrence. But as the avoiding fuch concurrence may often, in the mean while, leave perfons exposed to the common infection, it merits inquiry, whether every difeafed flate fhould restrain from the practice of inoculation, or what are the particular difeafes that fhould do fo. This is not yet fufficiently afcertained by obfervation; and we have frequently remarked, that the fmall pox have often occurred with a difeafed flate of the body, without being thereby rendered more violent. In particular, we have observed, that a scrophulous habit, or even the prefence of fcrophula, did not render the fmall pox more violent; and we have observed also, that feveral diseases of the skin are equally innocent. I am of opinion, that they are the difeases of the febrile kind, or ailments ready to induce or aggravate a febrile state, that especially give the concurrence which is most dangerous with the small pox. I dare not attempt any general rules; but I am disposed to maintain, that though a perfon be in a difeafed state, if that state be of uncertain nature and effect, and at the fame time the fmall pox be exceedingly rife, fo as

to

30

to render it extremely difficult to guard against the common infection, it will always be fafer to give the fmall pox by inoculation, than to leave the perfon to take them by the common infection.

DCVI.

Though inoculation has been practifed with fafety upon perfons of all ages ; yet, from what has actually occurred in the cafes of common infection, and from feveral other confiderations, there is reason to conclude, that adults are more liable to a violent difease than perfons of younger years. At the fame time, it is obferved, that children, in the time of their first dentition, are liable, from this irritation, to have the fmall pox rendered more violent; and that infants, before the time of dentition, upon receiving the contagion of the fmall pox, are liable to be affected with epileptic fits, which frequently prove fatal. It is therefore, upon the whole, evident, that though circumstances may admit, and even render inoculation at any age proper ; yet, for the most part, it will be still more advisable to choose perfons at an age, after the first dentition is over, and before the time of puberty.

DCVII.

Though inoculation has been practifed with fafety at every feason of the year; yet, as as it is certain that the cold of winter may increase the inflammatory, and the heats of fummer increase the putrescent state of the fmall pox, it is highly probable that inoculation may have some advantage, from avoiding the extremes either of heat or cold.

DCVIII.

Although the original temperament and constitutions of men are not to be readily changed; it is fufficiently certain, that the conditions of the human body may, by various caufes, in many refpects be occasionally very much changed; and therefore, as the ufe of animal food may increase both the inflammatory and putrescent state of the human body, fo it must render perfons, on receiving the contagion of the small pox, lefs fecure against a violent disease; and, therefore, inoculation may derive fome advantage from abstinence from animal food for fome time before the inoculation is performed; but I am of opinion, that a longer time than that ufually prefcribed may be often neceffary; and I am perfuaded, that the Scottifh mothers who avoid giving their children animal food till they are past the small pox, render this difease in them of a milder kind.

DCIX.

I cannot deny that mercurial and antimonial medicines may have fome effect in determining

32

mining to a more free perfpiration, and therefore may be of fome use in preparing a perfon for the small pox; but there are many obfervations which render me doubtful as to their effect. The quantity of both these medicines, particularly of the antimony, commonly employed, is too inconfiderable to produce any effect. It is true, that the mercurials have often been employed more freely; but even their falutary effects have not been evident, and their mischievous effects have fometimes appeared. I doubt, therefore, upon the whole, if inoculation derives any advantage from these pretended preparatory courses of medicines.

DCX.

As it has been often obferved, in the cafe of almost all contagions, that cold, intemperance, fear, and fome other circumstances, concurring with the application of the contagion, have greatly aggravated the future difeafe, fo it must be the fame in the cafe of the fmall pox; and it is undoubted, that inoculation must derive a great, and perhaps its principal, advantage, from avoiding the concurrences abovementioned.

DCXI.

It has been commonly supposed, that inoculation has derived some advantage from the choice choice of the matter employed in it; but, from what has been obferved in DXCV, it must appear very doubtful if any choice be necessary, or can be of any benefit, in determining the state of the disease.

DCXII.

It has been fuppofed by fome, that inoculation has an advantage, by introducing a fmall portion only of the contagious matter : But this refts upon an uncertain foundation. It is not known what quantity is introduced by the common infection, and it may be a fmall quantity only. Although it were larger than that thrown in by inoculation, it is not afcertained that the circumstance of quantity would have any effect. A certain quantity of ferment may be neceffary to excite fermentation in a given mafs; but, that quantity given, the fermentation and affimilation are extended to the whole mais; and we do not find that a greater quantity than is just necesfary, either increases the activity of the fermentation, or more certainly fecures the affimilation of the whole. In the case of the fmall pox, a confiderable difference in the quantity of contagious matter introduced, has not discovered any effect in modifying the disease.

DCXIII.

DCXIII.

Purging has the effect of diminifhing the activity of the fanguiferous fyftem, and of obviating its inflammatory flate. It is therefore probable, that the frequent use of cooling purgatives is a practice attending inoculation which may be of confiderable advantage; and, probably, it is also useful by diminishing the determination to the skin. It appears to me, that mercurials and antimonials, as they are commonly managed, are useful only as they make a part of the purging course.

DCXIV.

It is probable, that the flate of the fmall pox depends very much upon the flate of the eruptive fever, and particularly upon moderating the inflammatory flate of the fkin; and, therefore, it is probable, that the measures taken for moderating the eruptive fever and inflammatory state of the skin, afford the greatest improvement which has been made in the practice of inoculation. The tendency of purging, and the use of acids, for this purpofe, is fufficiently obvious; and upon the fame grounds, we fhould fuppose that bloodletting might be useful; but probably this has been omitted, for the fame reafon that perhaps might have led to the omiffion of other remedies alfo ; which is, that we have found a more

36

more powerful and effectual one in the application of cold air, and the ufe of cold drink. Whatever doubts or difficulties our theory might prefent to us on this fubject, they may be entirely neglected, as the practice of Indoftan had long ago, and the practice of this country has lately, by a large and repeated experience, afcertained the fafety and efficacy of this remedy ; and as it may and can be more certainly employed with the practice of inoculation, than it can be in cafes of common infection, it must give a fingular advantage to the former.

DCXV.

After the eruption, when a few pimples only have appeared on the face, the continuing the application of cold air, and the employment of purgatives, has indeed been the practice of many inoculators; but, I think, thefe practices cannot be faid to give any peculiar advantages to inoculation; for when the flate of the eruption is determined, when the number of puftules is very fmall, and the fever has entirely ceafed, I hold the fafety of the difeafe to be abfolutely afcertained, and the further ufe of remedies entirely fuperfluous. In fuch cafes, I judge the ufe of purgatives to be not only unneceffary, but that they may be often hurtful.

DCXVI.

I have thus confidered the feveral circumftances and practices accompanying inoculation, and have endeavoured to afcertain the utility and importance of each. Upon the whole, I hope I have fufficiently afcertained the general utility and great advantage of this practice, efpecially confifting in this, that if certain precautions, preparations, and remedies, are of importance, all of them can be employed with more certainty in the practice of inoculation than in the cafe of common infection.

It remains now that I fhould offer fome remarks on the conduct of the fmall pox, as received by infection, or even when, after inoculation, the fymptoms fhall prove violent. The latter fometimes happens, although every precaution and remedy have been employed. The caufe of this is not well known ; but it appears to me to be commonly owing to a difpofition of the fluids to putrefcency. But, however this may be, it will appear, that, not only in the cafe of common infection, but even in that of inoculation, there may be occafion for fludying the conduct of this difeafe, in all its poffible varying circumftances.

DCXVII.

When, from the prevailing of fmall pox as an epidemic, and more efpecially when it is Vol. II. C known known that a perfon not formerly affected with the difeafe has been exposed to the infection, if fuch perfon should be feized with the fymptoms of fever, there can be little doubt of its being an attack of the small pox; and therefore he is to be treated in every respect as if the difease had been received by inoculation. He is to be freely exposed to a cool air, to be purged, and to have cooling acids given liberally.

DCXVIII.

If thefe meafures moderate the fever, nothing more is neceffary : But if the nature of the fever attacking a perfon be uncertain ; or, if, with fulpicions of the fmall pox, the fymptoms of the fever be violent ; or even if, knowing the difeafe to be fmall pox, the meafures mentioned DXCVII, fhall not moderate the fever fufficiently ; it will be proper to let fome blood ; and this will be more efpecially proper, if the perfon be an adult, of a plethoric habit, and accuftomed to full living.

DCXIX.

In the fame circumstances, we judge it will be always proper to give a vomit, as useful in the commencement of all fevers, and more especially in this, where a determination to the

the ftomach appears from pain and fpontaneous vomiting.

DCXX.

It frequently happens, especially in infants, that, during the eruptive fever of the small pox, convulsions occur. Of these, if only one or two fits appear on the evening preceding the eruption, they give a favourable prognoftic of a mild disease, and require no remedy; but if they occur more early, and be violent and frequently repeated, they are very dangerous, and require a speedy remedy. For this purpose, bleeding is hardly ever of fervice; bliftering always comes too late; and the only remedy I have found effectual is an opiate given in a large dose.

DCXXI.

Thefe are the remedies neceffary during the eruptive fever; and if, upon the eruption, the pimples upon the face be very few and diftinct, the difeafe is no further of any danger, requires no remedies, and the purgatives, which, as has been faid before, are by fome practitioners continued, prove often hurtful.

But when, upon the eruption, the pimples on the face are very numerous; when they are not diffinct; and efpecially, when upon the fifth day, the fever does not fuffer a con- C_2 fiderable

D

101

39

PRACTICE

40

fiderable remission ; the difease will still require a great deal of attention.

DCXXII.

If, after the eruption, the fever fhall continue, the avoiding heat, and the continuing to expose the body to a cool air, will still be proper. If the fever be confiderable, with a full and hard pulfe, in an adult person, a bleeding will be necessary; and, more certainly, a cooling purgative. It is, however, feldom that a repetition of the bleeding will be proper, as a loss of strength does usually come on very soon; but the repetition of a purgative, or the frequent use of laxative glysters, is commonly useful.

DCXXIII.

When a lofs of ftrength, with other marks of a putrefcent tendency of the fluids appears, it will be neceffary to exhibit the Peruvian bark in fubftance, and in large quantity. In the fame cafe, the free ufe of acids, and of nitre, is ufeful ; and it is commonly proper alfo to give wine very freely.

DCXXIV.

From the fifth day of the difeafe, onward through the whole courfe of it, it is proper to give an opiate once or twice a day; taking care,

care, at the fame time, to obviate costiveness by purgatives or laxative glysters.

DCXXV.

In a violent difeafe, from the eighth to the eleventh day, it is proper to lay on blifters fucceffively on different parts of the body, and that without regard to the parts being covered with puftules.

DCXXVI.

If, in this difeafe, the tumour of the fauces be confiderable ; the deglutition difficult ; the faliva and mucus vifcid, and with difficulty thrown out ; it will be proper to apply blifters to the external fauces, and to employ diligently detergent gargles.

DCXXVII.

During the whole courfe of the difeafe, when any confiderable fever is prefent, the frequent exhibition of antimonial medicines, in naufeating dofes, has been found uleful; and thefe, for the most part, fufficiently answer the purpose of purgatives.

DCXXVIII.

DCXXVIII.

The remedies mentioned from DCXXII, to DCXXVI, are those frequently neceffary, from the fifth day till the suppuration is finished. But as, after that period, the fever is fometimes continued and increased; or, as fometimes, when, after there has been little or no fever before, a fever now arises, and continues with confiderable danger; this is what is called the Secondary Fever, and requires particular treatment.

DCXXIX.

When the fecondary fever follows the diftinct fmall pox, and the pulfe is full and hard, the cafe is to be treated as an inflammatory affection, by bleeding and purging. But, if the fecondary fever follow the confluent fmall pox, and be a continuance or exacerbation of the fever which had fubfifted before, it is to be confidered as of the putrid kind; and in that cafe, bleeding is improper. Some purging may be neceffary; but the remedies to be chiefly depended on, are the Peruvian bark and acids.

When the fecondary fever first appears, whether it is after a distinct or a confluent fmall pox, it will be useful to exhibit an antimonial emetic in nauseating doses, but in such manner as to produce fome vomiting.

DCXXX.

For avoiding the pits which frequently follow the fmall pox, many different measures have been proposed; but none of them appear to be fufficiently certain. 44

CHAP. II.

OF THE CHICKEN POX.

DCXXXI.

THIS difeafe feems to depend upon a fpecific contagion, and to affect perfons but once in their lives. It is hardly ever attended with any danger ; but as it feems frequently to have given occasion to the fupposition of a perfon's having the fmall pox twice, it is proper to fludy this difease, and to diftinguish it from the genuine small pox.

DCXXXII.

This may be generally done by attending to the following circumftances.

The eruption of the chicken pox comes on with very little fever preceding it, or with fever of no determined duration.

The

The pimples of the chicken pox, more quickly than those of the small pox, are formed into little vesicles or puscules.

The matter in these pustules remains fluid, and never acquires the colour or confistence of the pus which appears in the pustules of the fmall pox.

The puftules of the chicken pox are always in three or four days from their first appearance, formed into crusts.

See Dr. Heberden in Med. Transact. Vol.. I. art. xvii.

VOL. 2.

HAP,

PRACTICE

46

CHAP. III.

OF THE MEASLES.

DCXXXIII.

THIS difease also depends upon a specific contagion, and affects persons but once in their lives.

DCXXXIV.

It occurs most frequently in children ; but no age is exempted from it, if the perfons have not been subjected to it before.

DCXXXV.

It commonly appears as an epidemic, first in the month of January, and ceases soon after the summer solftice; but various accidents, introducing the contagion may produce the disease at other times of the year.

DCXXXVI.

DCXXXVI.

The difeafe always begins with a cold flage, which is foon followed by a hot, with the ordinary fymptoms of thirft, heat, anorexia, anxiety, ficknefs, and vomiting; and thefe are more or lefs confiderable in different cafes. Sometimes from the beginning, the fever is fharp and violent; often, for the firft two days, it is obfcure and inconfiderable, but always becomes violent before the eruption, which ufually happens upon the fourth day.

DCXXXVII.

This eruptive fever, from its commencement, is always attended with hoarfenefs, with a frequent hoarfe dry cough, and frequently with fome difficulty of breathing. At the fame time, the eye lids are fomewhat fwelled, the eyes are a little inflamed, and pour out tears; and, together with thefe fymptoms, there is a coryza, and frequent fneezing. For the most part, a constant drowfinefs attends the beginning of this difeafe.

DCXXXVIII.

The eruption, as we have faid, commonly appears upon the fourth day; first on the face, and fucceffively on the lower parts of the body. It discovers itself first in small red C 6 points; points ; but, foon after, a number of thefe appear in clufters, which do not arife into vifible pimples, but by the touch are found to be a little prominent. This is the cafe on the face ; but on other parts of the body, the prominence, or roughnefs, is hardly to be perceived. On the face the eruption retains its rednefs, or has that increafed for two days ; but, on the third, the vivid rednefs is changed to a brownifh red ; and, in a day or two more, the eruption entirely difappears, while a meally defquamation takes place. During the whole time of the eruption, the face is fomewhat turgid, but feldom confiderably fwelled.

DCXXXIX.

Sometimes, after the eruption has appeared, the fever ceafes entirely; but this is feldom the cafe; and more commonly the fever continues, or is increafed after the eruption, and does not ceafe till after the defquamation. Even then the fever does not always ceafe, but continues with various duration and effect.

DCXL.

Though the fever happen to cease upon the eruption's taking place, it is common for the cough to continue till after the desquamation, and sometimes much longer.

48

In

In all cafes, while the fever continues, the cough alfo continues, generally with an increafe of the difficulty of breathing; and both of thefe fymptoms fometimes arife to a degree that denotes a pneumonic affection. This may arife at any period of the difeafe; but very often it does not come on till after the defquamation of the eruption.

After the fame period, alfo, a diarrhœa frequently comes on, and continues for fome time.

DCXLI.

It is common for the meafles, even when they have not been of a violent kind, to be fucceeded by inflammatory affections, particularly ophthalmia and phthifis.

DCXLII.

If the blood be drawn from a vein during the meafles, with the circumftances neceffary to favour the feparation of the gluten, this always appears feparated, and lying on the furface of the craffamentum, as in inflammatory difeafes.

DCXLIII.

For the most part the measles, even when violent, are without any putrid tendency; but in fome cases such a tendency appears, both in in the courfe of the difeafe, and especially after the ordinary courfe of it is finished. See Dr. Watson, in London Med. Observations, Vol. IV. art. xi.

DCXLIV.

From what is delivered (from DCXXXVII, to DCXLII) it will appear, that the meafles are diftinguished by a catarrhal affection, and by an inflammatory diathefis to a confiderable degree; and therefore the danger attending them arifes chiefly from the coming on of a pneumonic inflammation.

DCXLV.

From this confideration it will be obvious, that the remedies especially necessary are those which may obviate and diminish the inflammatory diathefis; and therefore, in a particular manner, bloodletting. This remedy may be employed at any time in the course of the disease, or after its ordinary course is finished. It is to be employed more or lefs according to the urgency of the fymptoms of fever, cough, and dyfpnœa; and generally may be employed very freely. But, as the fymptoms of pneumonic inflammation feldom come on during the eruptive fever ; and as this fever is fometimes violent immediately before the eruption, though a fufficiently mild difeafe be to follow ; fo bleeding is feldom very necessa-

ry

ry during the eruptive fever, and may often be referved for the periods of greater danger which are perhaps to enfue.

DCXLVI.

In all cafes of meafles, where there are no marks of putrefcency, and where there is no reafon, from the known nature of the epidemic, to apprehend putrefcency, bleeding is the remedy to be depended upon ; but affiftance may alfo be obtained from cooling purgatives ; and particularly from bliftering on the fides, or between the fhoulders.

DCXLVII.

The dry cough may be alleviated by the large use of demulcent pectorals, mucilaginous, oily, or sweet. It may, however, be obferved, with respect to these demulcents, that they are not so powerful in involving and correcting the acrimony of the mass of blood as has been imagined; and that their chief operation is by besmearing the fauces, and thereby defending them from the irritation of acrids, either arising from the lungs or distilling from the head.

DCXLVIII.

For moderating and quieting the cough in this difeafe, opiates certainly prove the most effectual

effectual means, whenever they can be fafely employed. In the meafles, in which an inflammatory state prevails in a confiderable degree, opiates may be fupposed to be inadmissible; and, in those cases in which a high degree of pyrexia and dyfpnœa fhow either the prefence, or at least the danger, of pneumonic inflammation, I think that opiates might be very hurtful. In cafes, however, in which the dyspnœa is not confiderable, and where bleeding, to obviate or abate the inflammatory state, has been duly employed, and where the cough and watchfulnefs are the urgent fymptoms, I think that opiates may be fafely exhibited, and with great advantage. I think, further, that, in all the exanthemata, there is an acrimony diffused over the fystem, which gives a confiderable irritation; and, for obviating the effects of this, opiates are ufeful, and always proper, when no particular contraindication prevails.

DCXLIX.

When the defquamation of the meafles is finished, though there should then be no diforder remaining, physicians have thought it neceffary to purge the patient several times, with a view to draw off the dregs of this difease, that is, a portion of the morbific matter which is supposed to remain long in the body. I cannot reject this supposition; but, at the fame time, cannot believe, that the remains of the

the morbific matter, diffufed over the whole mafs of blood, can be entirely drawn off by purging ; and it appears to me, that to avoid the confequences of the meafles, it is not the drawing off the morbific matter which we need to fludy, fo much as the obviating and removing the inflammatory flate of the fyftem which had been induced by the difeafe. With this laft view, indeed, purging may ftill be a proper remedy ; but bleeding, in proportion to the fymptoms of inflammatory difpofition, is yet more fo.

DCL.

From our late experience of the benefit of cold air in the eruptive fever of the fmall pox, fome phyficians have been of opinion, that the practice might be transferred to the meafles ; but we have not yet had trials sufficient to afcertain this. There is no doubt that external heat may be very hurtful in the meafles, as in most other inflammatory difeases; and therefore the body ought to be kept in a moderate temperature during the whole course of the measles; but how far, at any period of the difeafe, cold air may be applied with fafety, we are yet uncertain. Analogy, though fo often the refource of phyficians, is, in general, fallacious; and further, though the analogy with the fmall pox might lead to the application of cold air during the eruptive fever of the measles, the analogy with catarrh feems feems to be against the practice. After the eruption had appeared upon the skin, we have had many instances of cold air making it disppear, and thereby producing much disorder in the system; and have also had frequent examples of such disorder being removed by restoring the heat of the body, and thereby again bringing forth the eruption.

54

C H A P. IV.

OF THE SCARLET FEVER.

DCLI.

IT may be doubted if the fcarlet fever be a difeafe fpecifically different from the Cynanche Maligna above defcribed. The latter is almost always attended with a fcarlet eruption ; and, in all the inftances I have feen of what may be called the Scarlet Fever, the difeafe, in almost every perfon affected, has been attended with an ulcerous fore throat.

DCLII.

This view of the matter may create fome doubt; but I am still of opinion, that there is a fcarlet fever which is a difease specifically different from the Cynanche Maligna.

Doctor Sydenham has defcribed a fcarlet fever, which he had feen prevailing as an epidemic, idemic, with all the circumstances of the fever and eruption, without its being accompanied with any affection of the throat; at least he does not take notice of any fuch affection, which fuch an accurate observer could not fail to have done, if any fuch fymptom, as we have commonly feen making a principal part of the difeafe, had attended those cases which he had observed. Several other writers have described the scarlet fever in the same manner, and I know phyficians who have feen the difeafe in that form; fo that there can be no doubt of there being a fcarlet fever not neceffarily connected with an ulcerous fore throat, and therefore a disease different from the Cynanche Maligna.

DCLIII.

But, further, although in all the inftances of fcarlet fever which I have feen, (and in the courfe of forty years I have feen it fix or feven times prevailing as an epidemic in Scotland), the difeafe, in almost all the perfons affected, was attended with an ulcerous fore throat, or was what Sauvages names the Scarlatina Anginofa ; and although, in fome inftances the ulcers of the throat were of a putrid and gangrenous kind, and at the fame time the difeafe in all its fymptoms refembled very exactly the cynanche maligna ; yet I am ftill perfuaded, that not only the Scarlatina of Sydenham, but that even the Scarlatina Anginofa

fa of Sauvages, is a different difeafe from the Cynanche Maligna; and I have formed this opinion from the following confiderations.

DCLIV.

1*ft*, There is a fcarlet fever entirely free from any affection of the throat, which fometimes prevails as an epidemic; and therefore there is a fpecific contagion producing a fcarlet eruption without any determination to the throat.

2*dly*, The Scarlatina, which, from its matter being generally determined to the throat, may be properly termed Anginofa, has, in many cafes of the fame epidemic, been without any affection of the throat; and therefore the contagion may be fuppofed to be more efpecially determined to produce the eruption only.

3dly, Though in all the epidemics that I could allege to be those of the Scarlatina Anginosa, there have been some cases, which, in the nature of the ulcers, and in other circumstances, exactly resembled the cases of the Cynanche Maligna; yet I have as constantly remarked, that these cases have not been above one or two in a hundred, while the rest have all of them been with ulcers of a benign kind, and with circumstances hereafter to be described, somewhat different from those of the Cynanche Maligna.

4thly, On the other hand, as I have two or three times feen the Cynanche Maligna epidemically demically prevailing ; fo, among the perfons affected, I have feen inftances of cafes as mild as those of the Scarlatina Anginofa ufually are ; but here the proportion was reversed ; and these mild cafes were not one fifth of the whole, while the rest were of the putrid and malignant kind.

Laftly, It applies to the fame purpofe to obferve, that of the Cynanche Maligna, most of the inftances terminate fatally; while, on the other hand, that is the event of very few of the cafes of the Scarlatina Anginofa.

DCLV.

From thefe confiderations, though it may appear that there is fome affinity between the Cynanche Maligna and Scarlatina Anginofa, it will ftill remain probable that the two difeafes are fpecifically different. I have been at fome pains to effablifh this opinion; for, from all my experience, I find, that those two difeafes require a different treatment; and I therefore now proceed to mention more particularly the circumftances of the Scarlatina Anginofa.

DCLVI.

This difease commonly appears about the beginning of winter, and continues throughout that season. It comes on with some cold shivering, and other symptoms of the sever which which ufually introduces the other exanthemata. But here there is no cough, nor the other catarrhal fymptoms which attend the meafles; nor is there that anxiety and vomiting which commonly introduce the confluent fmall pox, and which more certainly introduce the Cynanche Maligna.

Early in the difeafe fome uneafinefs is felt in the throat; and frequently the deglutition is difficult, generally more fo than in the Cynanche Maligna. Upon looking into the fauces, a rednefs and fwelling appear, in colour and bulk approaching to the ftate of thefe fymptoms in the Cynanche Tonfillaris; but in the Scarlatina, there is always more or lefs of floughs, which feldom appear in the Cynanche Tonfillaris; and the floughs are commonly whiter than those in the Cynanche Maligna.

While thefe appearances are difcovered in the fauces, upon the third or fourth day a fcarlet eruption appears on the fkin, in the fame form as defcribed in (CCCXIV.) This eruption is commonly more confiderable and univerfal than in the Cynanche ; but it feldom produces a remiffion of the fever. The eruption for the most part remains till the third or fourth day after its first appearance ; but then goes off, ending in a meally defquamation. At this time the fever ufually fubfides ; and, generally, at the fame time, fome degree of fweat comes on.

59

The floughs, on the fauces, which appeared early in the difeafe, continue for fome days; but then falling off, difcover the fwelling abated, and an ulcer formed on one or both tonfils flowing a laudable pus; and foon after the fever has fubfided, thefe ulcers heal up entirely. For the moft part this difeafe has much lefs of coryza attending it than the Cynanche Maligna; and, when there is a coryza attending the Scarlatina, the matter difcharged is lefs acrid, and has not the fetid fmell which it has in the other difeafe.

In the Scarlatina, when the eruption has entirely difappeared, it frequently happens, that, in a few days after, the whole body is affected with an anafarcous fwelling; which, however, in a few days more, gradually fubfides.

We have thus defcribed the moft common circumftances of the Scarlatina Anginofa; and have only to add, that, during the time of its being epidemic, and efpecially upon its firft fetting in, there are always a few cafes in which the circumftances of the difeafe approach very nearly to those of the Cynanche Maligna; and it is only in these instances that the difeafe is attended with any danger.

DCLVII.

With refpect to the cure of this difeafe, when the fymptoms of it are nearly the fame with those of the Cynanche. Maligna, it requires

60

requires exactly the fame treatment as directed in (CCCXVII.)

DCLVIII.

When the fcarlet fever appears without any affection of the throat, the treatment of it is very fimple, and is delivered by Dr. Sydenham. An antiphlogiftic regimen is commonly all that is requifite ; avoiding, on one hand, the application of cold air ; and, on the other, any increase of external heat.

DCLIX.

In the ordinary flate of the Scarlatina Anginofa, the fame treatment is, in most cafes, fufficient; but as here the fever is commonly more confiderable, and there is likewife an affection of the throat, fome remedies may be often neceffary.

DCLX.

When there is a pretty high degree of fever, with a full pulfe, and a confiderable fwelling of the tonfils, bleeding is very proper, efpecially in adults; and it has been frequently practifed with advantage; but as, even in the Cynanche Tonfillaris, much bleeding is feldom neceffary, (CCCV); fo, in the Scarlatina, when the ftate of the fever and the appearances of the fauces render the na-Vol. II. D ture ture of the difeafe ambiguous, bleeding may be omitted; and, if not altogether avoided, it fhould at leaft not be large, and ought not to be repeated.

DCLXI.

Vomiting, and efpecially naufeating dofes of emetics, notwithstanding the inflamed state of the fauces, have been found very useful in this difease. An open belly is proper in every form of this difease; and when the naufeating dofes of emetics operate a little downwards, they are more ferviceable.

DCLXII.

In every form of the Scarlatina Anginofa, through the whole courfe of it, detergent gargles fhould be employed, and more or lefs as the quantity of floughs and the vifcid mucus in the fauces may feem to require.

DCLXIII.

Even in the milder flates of the Scarlatina Anginofa, it has been common with practitioners to exhibit the Peruvian bark through the whole courfe of the difeafe ; but we are affured, by much experience, that in fuch cafes it may be fafely omitted, though in cafes any ways ambiguous it may not be prudent to neglect this remedy.

DCLXIV.

DCLXIV.

The anafarcous fwelling, which frequently follows the Scarlatina Anginofa, feldom requires any remedy; and, at leaft, the purgatives fo much inculcated, and fo commonly exhibited, foon take off the anafarca.

63

64 PRACTICE

CHAP. V.

OF THE PLAGUE.

SECT. I.

Of the PHENOMENA of the PLAGUE.

DCLXV.

THE Plague is a difeafe which always arifes from contagion; which affects many perfons about the fame time; proves fatal to great numbers; generally produces fever; and, in most perfons, is attended with buboes or carbuncles.

DCLXVI.

These are the circumstances which, taken together, give the character of the disease; but but it is accompanied with many fymptoms almost peculiar to itfelf, that in different perfons are greatly diversified in number and degree, and should be particularly studied. I would wish to lay a foundation for this; but think it unsit for a perfon who has never seen the difease to attempt its particular history. For this, therefore, I must refer to the authors who have written on the subject; but allowing those only to be consulted, who have themselves seen and treated the difease in all its different forms.

DCLXVII.

From the accounts of fuch authors, it appears to me, that the circumftances which particularly diffinguish this difease, and especially the more violent and dangerous states of it, are,

1st, The great loss of strength in the animal functions, which often appears early in the difease.

2dly, The stupor, giddines, and consequent staggering, which refembles drunkennes, or the headach, and various delirium; which are all of them symptoms denoting a great diforder in the functions of the brain.

3dly, The anxiety, palpitation, fyncope, and especially the weakness and irregularity of the pulse, which denote a confiderable difturbance in the action of the heart.

D 3

4thly, The

4thly, The naufea and vomiting, particularly the vomiting of bile, which fhows an accumulation of vitiated bile in the gall bladder and biliary ducts, and from thence derived into the inteftines and ftomach ; all of which fymptoms I fuppofe to denote a confiderable fpafm, and lofs of tone, in the extreme veffels on the furface of the body.

5thly, The buboes or carbuncles, which denote an acrimony prevailing in the fluids. And,

Lastly, The petechiæ, hemorrhagies, and colliquative diarrhœa, which denote a putrefcent tendency prevailing to a great degree in the mass of blood.

DCLXVIII.

From the confideration of all these fymptoms, it appears, that the plague is especially distinguished by a specific contagion, often suddenly producing the most confiderable symptoms of debility in the nervous system or moving powers, as well as of a general putressency in the fluids; and it is from the confideration of these circumstances as the proximate cause, that I think both the prevention and cure of the plague must be directed.

DCLXIX.

If this difease fhould revisit the northern parts of Europe, it is probable, that, at the time, time, there will be no phyfician then alive, who, at the first appearance of the difease, can be guided by his former experience, but must be instructed by his study of the writers on this subject, and by analogy. It is, therefore, I hope, allowable for me, upon the same grounds, to offer here my opinion with respect to both the prevention and cure of this difease.

This paragraph was written before I had any notice of the plague of Moscow anno 1771; but I think it will still apply to the cafe of Greatbritain and of many other northern states.

SECT. II.

Of the PREVENTION of the PLAGUE.

DCLXX.

WITH refpect to the prevention : As we are firmly perfuaded that the difeafe never arifes in the northern parts of Europe, but in confequence of its being imported from fome other country; fo the first measure neceffary, is the magistrate's taking care to prevent the importation; and this may generally be done by a due attention to bills of health, and to the proper performance of quarantines.

 $\cup 4$

DCLXXI.

DCLXXI.

With respect to the latter, we are perfuaded, that the quarantine of perfons may fafely be much less than forty days; and, if this were allowed, the execution of the quarantine would be more exact and certain, as the temptation to break it would be in a great measure removed.

DCLXXII.

With refpect to the quarantine of goods; it cannot be perfect, unlefs the fulpected goods be unpacked and duly ventilated, as well as the other means employed for correcting the infection they may carry; and, if all this were properly done, it is probable that the time commonly preferibed for the quarantine of goods might alfo be fhortened.

DCLXXIII.

A fecond meafure, in the way of prevention, becomes requifite, when an infection has reached and prevailed in any place, to prevent that infection from fpreading into other places. This can be done only by preventing the inhabitants, or the goods, of any infected place, from going out of it, till they have undergone a proper quarantine.

DCLXXIV.

69

The third measure for prevention, to be employed with great care, is to hinder the infection from fpreading among the inhabitants of the place in which it has arifen. The measures necessary for this, are to be directed by the doctrine laid down in LXXXII; and from that doctrine we infer, that all perfons who can avoid any near communication with infected perfons, or goods, may escape. the infection.

DCLXXV.

For avoiding fuch communication, a great deal may be done by the magistrate ; 1. By allowing as many of the inhabitants as are free from the infection, and not necessary to the fervice of the place, to go out of it. 2. By prohibiting all assemblies, or unnecessary intercourse, of the people. 3. By taking care that necellary communications be performed without contact. 4. By making fuch arrangements and provisions as may render it eafy for the families remaining to fhut themfelves up in their own houses. 5. By allowing perfons to quit houses in which an infection appears, upon condition that they go into lazarettoes. 6. By ventilating and purifying, or deftroying at the public expense, all infected goods. Lastly, By avoiding hospitals VOL. 2. D.5.

tals, and providing separate apartments for infected persons.

The execution of thefe meafures will require great authority, and much vigilance and attention, on the part of the magistrate; but it is not our province to enter into any detail on this subject of the public police.

DCLXXVI.

The fourth and laft part of the bufinels of prevention, respects the conduct of perfons neceffarily remaining in infected places, efpecially of those obliged to have fome communication with perfons infected.

DCLXXVII.

Of those obliged to remain in infected places, but not obliged to have any near communication with the fick, they may be preferved from the contagion by avoiding all near communication with other perfons, or their goods ; and, it is probable, that a fmall diftance will answer the purpose, if, at the fame time, there be no ftream of air to carry the effluvia of perfons, or goods, to fome diftance.

DCLXXVIII.

For those who are neceffarily obliged to have a near communication with the fick, it is proper to let them know, that some of the most powerful powerful contagions do not operate, but when the bodies of men exposed to the contagion are in certain circumftances which render them more liable to be affected by it, or when certain caufes concur to excite the power of it; and therefore, by avoiding these circumftances and causes, they may often escape infection.

DCLXXIX.

The bodies of men are efpecially liable to be affected by contagions, when they are any ways confiderably weakened by want of food, and even by a fcanty diet, or one of little nourifhment ; by intemperance in drinking, which, when the flupor of intoxication is over, leaves the body in a weakened flate ; by excefs in venery ; by great fatigue ; or by any confiderable evacuation.

DCLXXX.

The caufes which, concurring with contagion, render it more certainly active, are cold, fear, and full living.

The feveral means, therefore, of avoiding or guarding against the action of cold (XCIV, to XCVI) are to be carefully studied.

DCLXXXI.

Against fear the mind is to be fortified as well as possible, by inspiring a favourable idea D 6. of of the power of prefervative means; by deflroying the opinion of the incurable nature of the difeafe; by occupying mens' minds with bufinefs or labour; and by avoiding all objects of fear, as funerals, paffing bells, and any notice of the death of particular friends.

DCLXXXII.

A full diet of animal food increafes the irritability of the body, and favours the operation of contagion; and indigeftion, whether from the quantity or quality of food, has the fame effect.

DCLXXXIII.

Befides giving attention to obviate the feveral circumflances (DCX, DCLXXIX, to DCLXXXII) which favour the operation of contagion, it is probable that fome means may be employed for ftrengthening the bodies of men, and thereby enabling them to refift contagion.

For this purpofe, it is probable, that the moderate use of wine, or of spirituous liquors, may have a good effect.

It is probable alfo, that exercife, when it can be employed, if fo moderate as to be neither heating nor fatiguing to the body, may be employed with advantage.

Perfons who have tried cold bathing, and commonly feel invigorating effects from it, if they they are anywife fecure against having already received infection, may possibly be enabled to refiss it by the use of the cold bath.

It is probable, that fome medicines alfo may be uleful in enabling men to refift infection; but amongst these I can hardly admit the numerous alexipharmics formerly proposed; or, at least, very few of them, and those only of tonic power. Amongst these last we reckon the Peruvian bark; and it is perhaps the most effectual. If any thing is to be expected from antifeptics, I think camphire, whether internally or externally employed, is one of the most promising.

Every perfon is to be indulged in the ufe of any means of prefervation of which he has conceived a good opinion, whether it be a charm or a medicine, if the latter be not directly hurtful.

Whether iffues be ufeful in preferving from, or in moderating the effects of, contagion, I cannot determine from the observations I have yet read.

DCLXXXIV.

As neither the atmosphere in general, nor any confiderable portion of it, is tainted or impregnated with the matter of contagions; fo the lighting of fires over a great part of the infected city, or other general fumigations in the open air, are of no use for preventing the disease, and may perhaps be hurtful.

DCLXXXV,

DCLXXXV.

It would probably contribute much to check the progrefs of infection, if the poor were enjoined to make a frequent change of clothing, and were fuitably provided for that purpofe; and if they were, at the fame time, induced to make a frequent ventilation of their houfes and furniture.

SECT. III.

Of the CURE of the PLAGUE.

DCLXXXVI.

IN the cure of the plague, the indications are the fame as those of fever in general (CXXVI); but here they are not all equally neceffary and important.

DCLXXXVII.

The measures for moderating the violence of reaction, which operate by diminishing the action of the heart and arteries (CXXVIII), have feldom any place here, excepting fo far as the antiphlogistic regimen is generally proper. Some physicians, indeed, have recommended mended bleeding; and there may occur cafes in which bleeding may be ufeful; but, for the most part, it is unneceffary, and in many cafes it might be very hurtful.

Purging has also been recommended; and, in some degree, it may be useful in drawing off the bile, or other putrescent matters frequently present in the intestines; but a large evacuation this way may certainly be hurtful.

DCLXXXVIII.

The moderating the violence of reaction, fo far as it can be done by taking off the fpafm of the extreme veffels (CLI), is a meafure of the utmost neceffity in the cure of the plague; and the whole of the means (CLII, to CC) fuited to this indication are extremely proper.

DCLXXXIX.

The giving an emetic at the very first approach of the difease, would probably be of great fervice; and it is likely, that at some other periods of the difease, emetics might be useful, both by evacuating bile abundant in the alimentary canal, and by taking off the spase of the extreme vessels.

DCXC.

From fome principles with refpect to fever in general, and with refpect to the plague in particular,

75

76

particular, I am of opinion, that, after the exhibition of the first vomit, the body should be disposed to sweat; which ought to be raised to a moderate degree only, but continued for at least twenty four hours, or longer if the patient bear it easily.

DCXCI.

This fweating fhould be excited and conducted agreeably to the rules laid down in (CLXVIII.) It is to be promoted by the plentiful use of diluents, rendered more grateful by vegetable acids, or more powerful by being impregnated with some portion of neutral falts.

DCXCIL.

To fupport the patient under the continuance of the fweat, a little weak broth, acidulated with juice of lemons, may be given frequently; and fometimes a little wine, if the heat of the body be not confiderable.

DCXCIII.

If fudorific medicines are judged to be neceffary, opiates are the most effectual and fafe; but they should not be combined with aromatics; and probably may be more effectual, if joined with a portion of emetics and of neutral falts.

DCXCIV.

OF PHYSIC.

DCXCIV.

If, notwithstanding the use of emetics and fudorifics, the difease should still continue, the cure must depend upon the employment of means for obviating debility and putrescency; and, for this purpose, the various remedies proposed above (from CCI, to CCXXVII), may all be administered, but especially the tonics; and of those the chief are cold drink and the Peruvian bark.

DCXCV.

In the cure of the plague, fome attention is due to the management of buboes and carbuncles; but we do not touch this, as it belongs to the province of furgery.

CHAP.

78

CHAP. VI.

OF ERYSIPELAS, OR ST. ANTHONY'S FIRE.

DCXCVI.

IN CCLXXIV I mentioned the diffinction which I proposed to make between the difeases to be named the Erythema and the Eryfipelas; and from thence it will appear, that Eryfipelas, as an Erythema following fever, may have its place here.

DCXCVII.

I fuppofe the Eryfipelas to depend on a matter generated within the body, and which, analogous to the other cafes of exanthemata, is, in confequence of fever, thrown out upon the furface of the body. I own it may be difficult to apply this to every particular cafe of eryfipelas; but I take the cafe in which it is generally fuppofed to apply, that of the eryfipelas

OF PHYSIC.

79

fipelas of the face; which I shall therefore confider here.

DCXCVIII.

The Eryfipelas of the face comes on with a cold fhivering, and other fymptoms of pyrexia. The hot ftage of this is frequently attended with a confusion of head, and some degree of delirium; and almost always with drowfines, or perhaps coma. The pulse is always frequent, and commonly full and hard.

- DCXCIX.

When these symptoms have continued for one, two, or at most three days, there appears, on some part of the face, a redness, such as that defcribed in (CCLXXV) as the appearance of Erythema. This rednefs, at first, is of no great extent; but gradually fpreads from the part it first occupied to the other parts of the face, commonly till it has affected the whole ; and frequently from the face it fpreads over the hairy scalp, or descends on fome part of the neck. As the rednefs fpreads, it commonly disappears, or at least decreases, in the parts it had before occupied. All the parts upon which the rednefs appears are, at the same time, affected with some swelling, which continues for fome time after the redness has abated. The whole face becomes confiderably confiderably turgid ; and the eyelids are often fo much fwelled, as entirely to fhut up the eyes.

80

DCC.

When the rednefs and fwelling have proceeded for fome time, there commonly arife, fooner or later, blifters of a larger or fmaller fize, on feveral parts of the face. Thefe contain a thin yellowifh or almost colourlefs liquor, which fooner or later runs out. The furface of the fkin, in the bliftered places, fometimes becomes livid and blackifh; but this livor feldom goes deeper than the furface, or difcovers any degree of gangrene affecting the fkin. On the parts of the face not affected with blifters, the cuticle fuffers, towards the end of the difeafe, a confiderable defquamation.

Sometimes the tumour of the eyelids ends in a fuppuration.

DCCI.

The inflammation coming upon the face does not produce any remiffion of the fever which had before prevailed; and fometimes the fever increases with the increasing and fpreading inflammation.

DCCII.

DCCII.-

The inflammation ufually continues for eight or ten days; and for the fame time, the fever and fymptoms attending it alfo continue.

DCCIII.

In the progrefs of the inflammation the delirium and coma attending it fometimes go on increafing, and the patient dies apoplectic on the feventh, ninth, or eleventh day of the difeafe. In fuch cafes, it has been commonly fuppofed that the difeafe is tranflated from the external to the internal parts. But I have not feen any inflance in which it did not appear to me, that the affection of the brain was merely a communication of the external affection, as this continued increafing at the fame time with the internal.

DCCIV.

When the fatal event does not take place, the inflammation, after having affected a part, commonly the whole of the face, and perhaps the other external parts of the head, ceafes. With the inflammation, the fever alfo ceafes ; and, without any evident crifis, the patient returns to his ordinary flate of health.

DCCV.

DCCV.

This difeafe is not commonly contagious; but as it may arife from an acrid matter externally applied, fo it is poffible that the difeafe may fometimes be communicated from one perfon to another.

Perfons who have once laboured under this difeafe are liable to returns of it.

DCCVI.

The event of this difeafe may be forefeen from the ftate of the fymptoms which denote more or lefs affection of the brain. If neither delirium nor come on, the difeafe is feldom attended with any danger ; but when thefe fymptoms appear early in the difeafe, and are in a confiderable degree, the utmoft danger is to be apprehended.

DCCVII.

As this difeafe often arifes in the part, at the fame time with the coming on of the pyrexia; as I have known it, with all its fymptoms, arife from an acrimony applied to the part; as it is commonly attended with a full, and frequently a hard pulfe; as the blood drawn in this difeafe fhows the fame cruft upon its furface that appears in the phlegmafix; and, laftly, as the fwelling of the eyelids, in this this difeafe, frequently ends in a fuppuration; fo, from thefe confiderations, it feems doubtful if this difeafe be properly, in Nofology, feparated from the Phlegmafiæ. At any rate, I take the difeafe I have defcribed to be what phyficians have named the Eryfipelas Phlegmonodes, and that it partakes a great deal of the nature of the Phlegmafiæ.

DCCVIII.

Upon this conclusion, the Eryfipelas of the face is to be cured very much in the fame manner as phlegmonic inflammations, by bloodletting, cooling purgatives, and by employing every part of the antiphlogistic regimen; and our experience has confirmed the fitnels of this method of cure.

DCCIX.

The evacuations of bloodletting and purging are to be employed more or lefs according to the urgency of fymptoms, particularly those of the pyrexia, and of those which mark an affection of the brain. As the pyrexia continues, and often increases with the inflammation of the face; fo the evacuations mentioned may be employed at any time in the course of the difease.

DCCX.

In this, as in other difeases of the head, it is proper to put the patient, as often as he ean easily bear it, into somewhat of an creft posture.

DCCXI.

As in this difeafe there is always an external affection, and as in many inflances there is no other; fo various external applications to the part affected have been proposed; but almost all of them are of doubtful effect. The narcotic, refrigerant, and aftringent applications, are suspected of disposing to gangrene; spirituous applications feem to increase the inflammation; and all oily or watery applications feem to occasion its spreading. The application that seems most safe, and which is now most commonly employed, is that of a dry mealy powder frequently sprinkled upon the inflamed parts.

DCCXII.

An Eryfipelas Phlegmonodes frequently appears on other parts of the body befide the face ; and fuch other eryfipelatous inflammations frequently end in fuppuration. These cafes are feldom dangerous. At coming on, they are fometimes attended with drowfinels, and and even with fome delirium ; but this rarely happens ; and thefe fymptoms do not continue after the inflammation isformed. I have never feen an inftance of the translation of this inflammation from the limbs to an internal part ; and though thefe inflammations of the limbs be attended with pyrexia, they feldom require the fame evacuations as the eryfipelas of the face. At first they are to be treated by dry mealy applications only ; and all humid applications, as fomentations, or poultices, are not to be applied, till, by the continuance of the difease, by the increase of fwelling, or by a throbbing felt in the part, it appears that the difease is proceeding to fuppuration.

DCCXIII.

We have hitherto confidered eryfipelas as in a great meafure of a Phlegmonic nature ; and, agreeably to that opinion, we have propofed our method of cure. But it is probable, that an eryfipelas is fometimes attended with, or is a fymptom of, a putrid fever ; and, in fuch cafes, the evacuations propofed above may be improper, and the ufe of the Peruvian bark may be neceffary ; but I cannot be explicit upon this fubject, as fuch putrid cafes have not come under my obfervation.

E

CHAP.

PRACTICE

86

C H A P. VII.

OF THE MILIARY FEVER.

DCCXIV.

I HIS difeafe is faid to have been unknown to the ancients, and that it appeared, for the first time, in Saxony, about the middle of the last century. It is faid to have spread from thence into all the other parts of Europe; and, fince the period mentioned, to have appeared in many countries in which it had never appeared before.

DCCXV.

From the time of its having been first particularly observed, it has been described and treated of by many different writers; and by all of them, till very lately, has been confidered as a peculiar idiopathic difease.

It is faid to have been conftantly attended with peculiar fymptoms. It comes on with a cold flage, which is often confiderable. The hot flage which fucceeds, is attended with great great anxiety, and frequent fighing. The heat of the body becomes great, and foon produces profule fweating; preceded, however, by a fenfe of pricking, as of pin points, in the fkin; and the fweat is of a peculiarly rank and difagreeable odour. The eruption appears fooner or later in different perfons, but at no determined period of the difeafe. It feldom or never appears on the face; but difcovers itfelf firft upon the neck and breaft, and from thence often fpreads over the whole body.

DCCXVI.

The eruption named Miliary is faid to be of two kinds; the one named the Red, the other the White Miliary. The former, which in English is strictly named a Rash, is commonly allowed to be a symptomatic affection; and as the latter is the only one that has any pretensions to be confidered as an idiopathic difease, it is this alone that I shall more particularly describe and treat of in the present chapter.

DCCXVII.

What then is called the White Miliary eruption, appears at firft like the red, in very fmall red pimples, for the most part diffinct, but fometimes clustered together. Their flight prominence is distinguished better by the finger than by the eye. Soon after the E 2 appearance

appearance of this eruption, and at least on the fecond day, a small veficle appears upon the top of each pimple. At first the vesicle is whey coloured ; but foon becomes white, and stands out like a little globule on the top of the pimple. In two or three days, these globules break, or are rubbed off; and are fucceeded by small crusts, which soon after fall off in fmall scales. While one set of pimples takes this courfe, another fet fucceeds ; fo that the difease often continues upon the skin for many days together. Sometimes when one crop of this eruption has difappeared, another, after some interval, is produced. And it has been further observed, that in some perfons there is fuch a tendency to this difease, that they have been affected with it feveral times in the course of their lives.

DCCXVIII.

This difease is faid to affect both fexes, and perfons of all ages and conflitutions; but it has been observed, at all times, to affect especially, and most frequently, lying in women.

DCCXIX.

This difease is often accompanied with violent fymptoms, and has frequently proved fatal. The fymptoms attending it, are, however, very various. They are, in one or other instance, all the feveral fymptoms attending febrile

febrile difeafes; but I cannot find that any fymptom or concourfe of fymptoms are fleadily the fame in different perfons, fo as to furnifh any fpecific character to the difeafe. When the difeafe is violent, the most common fymptoms are phrenitic, comatofe, and convultive affections, which are alfo fymptoms of all fevers treated by a very warm regimen.

DCCXX.

While there is fuch a variety of fymptoms appearing in this difeafe, it is not to be expected that any one particular method of cure can be proposed; and accordingly we find, in different writers, different methods and remedies prefcribed; frequent disputes about the most proper; and those received and practifed by some, opposed and rejected by others.

DCCXXI.

I have thus given an account of what I have found delivered by authors who have confidered the white miliary fever as an idiopathic difeafe; but, now, after having often obferved the difeafe, I must fay that I doubt much if it ever be fuch an idiopathic as has been fuppofed; and I fuspect that there is much fallacy in what has been written on the fubject.

DCCXXII.

DCCXXII.

It feems to me very improbable, that this fhould have been really a new difeafe when it was firft confidered as fuch. There appear to me very clear traces of it in authors who wrote long before that period ; and though there were not, we know that the defcriptions of the ancients were inaccurate and imperfect, particularly with refpect to cutaneous affections ; whilft we know alfo very well, that those affections which usually appeared as fymptomatic only, were commonly neglected, or confounded together under a general appellation.

DCCXXIII.

The antecedent fymptoms of anxiety, fighing, and pricking of the fkin, which have been fpoken of as peculiar to this difeafe, are, however, common to many others; and, perhaps, to all those in which fweatings are forced out by a warm regimen.

Of the fymptoms faid to be concomitant of this eruption, there are none which can be faid to be conftant and peculiar but that of fweating. This, indeed, always precedes and accompanies the eruption ; and, while the miliary eruption attends many different difeafes, it never, however, appears in any of thefe, but after fweating ; and, in perfons labouring under der these diseases, it does not appear, if sweating be avoided. It is therefore probable, that the eruption is the effect of fweating; and that it is the produce of a matter, not before prevailing in the mass of blood, but generated, under particular circumstances, in the skin itself. That it depends upon particular circumftances of the skin, appears further from hence, that the eruption feldom or never appears upon the face, although it affects the whole of the body befides; that it comes upon those places especially which are more clofely covered; and that it can be brought out upon particular parts by external applications.

DCCXXIV.

It is to be observed, that this eruptive difeafe differs from the other exanthemata in many circumftances ; in its not being contagious, and therefore never epidemic ; that the eruption appears at no determined period of the difease; that the eruption has no determined duration ; that fucceffive eruptions frequently appear in the course of the fame fever ; and that fuch eruptions frequently recur in the course of the fame perfon's life.

All these circumftances render it extremely probable, that, in the miliary fever, the morbific matter is not a fubfifting contagion communicated to the blood, and thence, in confequence of fever and affimilation, thrown out upon upon the furface of the body; but a matter occafionally produced in the fkin itfelf, by fweating.

DCCXXV.

This conclusion is further rendered probable from hence, that, while the miliary eruption has no peculiar fymptoms, or concourfe of fymptoms, belonging to it ; yet, upon occation, it accompanies almost all febrile difeafes, whether inflammatory or putrid, if thefe happen to be attended with fweating ; and from thence it may be prefumed, that the miliary eruption is a fymptomatic affection only, produced in the manner we have faid.

DCCXXVI.

But, as this fymptomatic affection does not always accompany every inftance of fweating, it may be proper to inquire, what are the circumftances which efpecially determine this eruption to appear ? To this, however, I can give no full and proper anfwer. I cannot fay that there is any one circumftance which in all cafes gives occafion to this eruption; nor can I fay what different caufes may, in different cafes, give occafion to it. There is only one obfervation I can offer to the purpofe of this inquiry; and it is, that, of the perfons fweating under febrile difeafes, thofe are efpecially liable to the miliary eruption, who

92

who have been previoufly weakened by large evacuations, particularly of blood. This will explain why it happens to lying in women more frequently than to any other perfons; and to confirm this explanation, I have remarked, that the eruption happened to women not in childbed, but who had been much fubjected to a frequent and copious menftruation, and to an almost constant fluor albus. I have alfo had occasion to observe it happen to men in fevers, after wounds from which they had fuffered a great loss of blood.

Further, that this eruption is produced by a certain flate of debility, will appear probable, from its often occurring in fevers of the putrid kind, which are always attended with great debility. It is true, that it alfo fometimes attends inflammatory difeafes, when it cannot be accounted for in the fame manner ; but I believe it will be found to attend efpecially those inflammatory difeafes in which the fweats have been long protracted or frequently repeated, and which have thereby produced a debility, and perhaps a debilitating putrid diathefis.

DCCXXVII.

It appears fo clearly to me that this eruption is always a fymptomatic and factitious affection, that I am perfuaded it may be in most cafes prevented merely by avoiding fweats. Spontaneous fweatings, in the beginning of Vol. 2. E 5. difeafes, difeafes, are very rarely critical; all fweatings, not evidently critical, fhould be prevented; and the promoting them, by increafing external heat, is commonly very pernicious. Even critical fweats fhould hardly be encouraged by fuch means. If, therefore, fpontaneous fweats arife, they are to be checked by the coolnefs of the chamber; by the lightnefs and loofenefs of the bed clothes; by the perfons laying out their hands and arms, and by their taking cold drink; and, by thefe precautions, I think I have frequently prevented miliary eruptions, which were otherwife likely to have appeared, particularly in lying in women.

DCCXXVIII.

But it may happen, when these precautions have been neglected, or from other circumftances, that a miliary eruption does actually appear; and the question will then be put, how the case is to be treated? It is a question of consequence, because I believe that the matter here generated is often of a virulent kind; it is frequently the offspring of putrescency; and, when treated by increasing the external heat of the body, it feems to acquire a virulence which produces those fymptoms mentioned in DCCXIX, and proves certainly fatal.

It has been an unhappy opinion with moft phyficians, that eruptive difeafes were ready to be hurt by cold ; and that it was therefore neceffary to cover up the body very clofely, fo

as

94

as thereby to increase the external heat. We now know that this is a miftaken opinion; that increasing the external heat of the body is very generally mischievous; and that feveral eruptions not only admit, but require the application of cold air. We are now perfuaded, that the practice which formerly prevailed, in the cafe of miliary eruptions, of covering up the body close, and both by external means, and internal remedies, encouraging the fweatings which accompany this eruption, was highly pernicious, and commonly fatal. I am therefore of opinion, even when a miliary eruption has appeared, that in all cafes where the fweating is not manifeftly critical, we should employ all the feveral means of flopping it that are mentioned above ; and I have fometimes had occasion to observe, that even the admission of cool air was fafe and uleful.

DCCXXIX.

This is, in general, the treatment of miliary eruptions; but, at the fame time, the remedies. fuited to the primary difeafe are to be employed; and therefore, when the eruption happens to accompany inflammatory affections, and when the fulnefs and hardnefs of the pulfe or other fymptoms fhow an inflammatory flate prefent, the cafe is to be treated by bloodletting, purging, and other antiphlogiftic remedies.

E.6

Upom

Upon the other hand, when the miliary eruption attends difeafes in which debility and putrefcency prevail, it will be proper to avoid all evacuations, and employ tonic and antifeptic remedies, particularly the Peruvian bark, cold drink, and cold air.

I fhall conclude this fubject with mentioning, that the venerable octogenarian practitioner, de Fischer, when treating of this subject, in laying down the indications of cure, has given this as one of them : 'Excretionis 'periphericæ non primariam habere ratio-'nem.'

CHAP.

OF PHYSIC. 97

CHAP. VIII.

OF THE REMAINING EXANTHE-MATA.

URTICARIA, PEMPHIGUS, AND APHTHA.

DCCXXX.

THE Nettle Rafh is a name applied to two different difeafes. The one is the chronic eruption defcribed by Dr. Heberden in the Medical Tranfactions, Vol. I. art. xvii. which, as not being a febrile diforder, does not belong to this place. The other is the Urticaria of our Synopfis, which, as taken into every fyftem of Nofology as one of the Exanthemata Febrilia, is properly to be treated of here.

DCCXXXI.

I have never observed this disease as contagious and epidemic; and the few sporadic cases of of it which have occurred to me, have feldom taken the regular courfe defcribed by authors. At the fame time, as the accounts of different authors are not very uniform, and hardly confiftent, I cannot enter further into the confideration of this fubject; and I hope it is not very neceffary, as on all hands it is agreed to be a mild difeafe, and fuch as feldom requires the ufe of remedies. It is generally fufficient to obferve an antiphlogiftic regimen, and to keep the patient in a temperature that is neither hot nor cold.

DCCXXXII.

The Pemphigus, or Vesicular fever, is a rare and uncommon difease, and very few inftances of it are recorded in the writings of phyficians. As I have never had occasion to see it, it would be improper for me to treat of it; and I do not choose to repeat after others, while the difease has yet been little observed, and its character does not seem to be exactly ascertained. Vid. Acta Helvetica, vol. ii. p. 260. Synopf. Nosolog. vol. ii. p. 149.

DCCXXXIII

The Aphtha, or Thrush, is a disease better known; and, as it commonly appears in infants, it is so well understood, as not to need our treating of it here. As an idiopathic disease, affecting adults, I have not seen it in this country; country ; but it feems to be more frequent in Holland ; and, therefore, for the fludy of it, I refer to Dr. Boerhaave, and his commentator Van Swieten, whofe works are in every body's hands.

DCCXXXIV.

The Petechia has been, by all our Nofologifts, enumerated amongft the exanthemata; but as, according to the opinion of moft phyficians, it is very juftly held to be always a fymptomatic affection only, I cannot give it a place here.



BOOK IV.

OF HEMORRHAGIES.

and the state of the state of the

10000 Stall Officer

CHAP. I.

OF HEMORRHAGY IN GENERAL.

DCCXXXV.

IN eftablifhing a clafs or order of difeafes, under the title of *Hemorrha*gies, Nofologifls have employed the fingle circumftance of an effufion of red blood, as the character of fuch a clafs or order. By this means, they have affociated difeafes which in their nature are very different ; but, in every methodical diftribution, fuch arbitrary and unnatural affociations fhould be avoided as much as poffible. Further, by that management

OF PHYSIC.

ment Nofologists have suppressed or lost fight of an established and well founded distinction of hemorrhagies into Active and Passive.

DCCXXXVI.

It is my defign to reftore this diffinction ; and I shall therefore here, under the title of Hemorrhagies, comprehend those only which have been commonly called Active, that is, those attended with some degree of pyrexia; which feem always to depend upon an increafed impetus of the blood in the veffels pouring it out, and which chiefly arife from an internal caufe. In this I follow Dr. Hoffman, who joins the active hemorrhagies with the febrile difeafes ; and have accordingly eftablished thefe hemorrhagies as an order in the clafs of pyrexia. From this order I exclude all those effusions of red blood that are owing entirely to external violence; and all those which, though arifing from internal caufes, are, however, not attended with pyrexia, and which feem to be owing to a putrid fluidity of the blood, to the weakness or to the erofion of the veffels, rather than to any increased impetus of the blood in them.

DCCXXXVII.

Before proceeding to treat of those proper hemorrhagies which form an order in our Nosology, I shall treat of active hemorrhagy in 102

in general; and indeed the feveral genera and fpecies, to be treated of particularly afterwards, have fo many circumftances in common with one another, that the general confideration to be now offered will prove both proper and ufeful.

SECT. I.

Of the PHENOMENA of HEMORRHAGY.

DCCXXXVIII.

THE phenomena of hemorrhagy are generally the following.

Hemorrhagies happen efpecially in plethoric habits, and to perfons of a fanguine temperament. They appear most commonly in the fpring, or in the beginning of fummer.

For fome time, longer or fhorter in different cafes, before the blood flows, there are fome fymptoms of fulnefs and tenfion about the parts from whence the blood is to iffue. In fuch parts as fall under our view, there are fome rednefs, fwelling, and fenfe of heat or of itching; and in the internal parts, from which blood is to flow, there is a fenfe of weight and heat; and, in both cafes, various pains are often felt in the neighbouring parts.

DCCXXXIX.

When these fymptoms have fubfisted for fome time, some degree of a cold stage of pyrexia comes on, and a hot stage is formed; during which, the blood flows of a florid colour, in a greater or lesser quantity, and continues to flow for a longer or shorter time; but commonly, after some time, the effusion spontaneously ceases, and together with it the pyrexia also.

DCCXL.

During the hot flage which precedes an hemorrhagy, the pulfe is frequent, quick, full, and often hard ; but, as the blood flows, the pulfe becomes fofter and lefs frequent.

DCCXLI

In hemorrhagies, blood drawn from a vein does, upon its concreting, commonly flow the gluten feparated, or a cruft formed, as in the cafes of Phlegmafiæ.

DCCXLII.

Hemorrhagies, from internal caufes, having once happened, are apt, after a certain interval, to return; in fome cafes very often, and frequently at flated periods.

DCCXLIII.

DCCXLIII.

Thefe are, in general, the phenomena of hemorrhagy; and if in fome cafes all of them be not exquifitely marked, or if perhaps fome of them do not at all appear, it imports only, that, in different cafes, the fyftem is more or lefs generally affected; and that, in fome cafes, there are purely topical hemorrhagies, as there are purely topical inflammations.

SECT. II.

Of the PROXIMATE CAUSE of HEMOR-RHAGY.

DCCXLIV.

THE pathology of hemorrhagy feems to be fufficiently obvious. Some inequality in the diffribution of the blood, occafions a congefiion in particular parts of the fanguiferous fyftem; that is, a greater quantity of blood is poured into certain veffels than their natural capacity is fuited to receive. Thefe veffels become thereby preternaturally diffended; and this diffention, proving a ftimulus to them, excites their action to a greater degree than ufual, which, pufhing the blood with unufual ulual force into the extremities of these veffels, opens them by anaftomosis, or rupture ; and, if these extremities be loosely situated on external surfaces, or on the internal surfaces of certain cavities that open outwardly, a quantity of blood flows out of the body.

DCCXLV.

This reafoning will, in fome meafure, explain the production of hemorrhagy. But it appears to me, that, in moft cafes, there are fome other circumftances that concur to produce it; for it is probable, that in confequence of congeftion, a fenfe of refiftance arifes, and excites the action of the Vis Medicatrix Naturæ; the exertions of which are ufually made by the formation of a cold ftage of pyrexia, inducing a more vigorous action of the veffels; and the concurrence of this exertion more effectually opens the extremities, and occafions the flowing out of the blood.

DCCXLVI.

What has been delivered in the two preceding paragraphs, feems to explain the whole phenomena of hemorrhagy, except the circumftance of its frequent recurrence, which I apprehend may be explained in the following manner. The congestion and confequent irritation being taken off by the flowing of the blood ; this, therefore, foon after, fpontane-. oufly oufly ceafes; but, at the fame time, the internal caufes which had before produced the unequal diffribution of the blood, commonly remain, and muft now operate the more readily, as the overftretched and relaxed veffels of the part will more eafily admit of a congeftion of blood in them, and, confequently, produce the fame feries of phenomena as before.

DCCXLVII.

This may fufficiently explain the ordinary return of hemorrhagy; but there is still another circumftance, which, as commonly concurring, is to be taken notice of ; and that is, the general plethoric state of the system, which renders every cause of unequal distribution of more confiderable effect. Though hemorrhagy may often depend upon the state of the veffels of a particular part being favourable to a congestion's being formed in them; yet, in order to that flate's producing its effect, it is neceffary that the whole fystem fhould be at least in its natural plethoric condition; and, if this should be in any degree increased beyond what is natural, it will still more certainly determine the effects of topical conformation to take place. The return of hemorrhagy, therefore, will be more certainly occafioned, if the fystem becomes preternaturally plethoric; but hemorrhagy has always a tendency to increase the plethoric ftate

OF PHYSIC.

state of the fystem, and, confequently, to occafion its own return.

DCCXLVIII.

To fhow that hemorrhagy does contribute to produce or increase the plethoric state of the fystem, it is only necessary to observe, that the quantity of ferous fluids being given, the state of the excretions depends upon a certain balance between the force of the larger arteries propelling the blood, and the refiftance of the excretories; but the force of the arteries depends upon their fulnefs and diftention, chiefly given to them by the quantity of red globules and gluten, which are, for the greatest part, confined to the red arteries; and therefore, the spoliation made by an hemorrhagy, being chiefly of red globules and gluten, the effusion of blood must leave the red arteries more empty and weak. In confequence of the weaker action of the red arteries, the excretions are in proportion diminished ; and, therefore, the ingesta continuing the fame, more fluids will be accumulated in the larger veffels. It is by this means that the loss of blood by hemorrhagies, whether artificial or spontaneous, if within certain bounds, is commonly fo foon recovered; but, as the diminution of the excretions, from a lefs quantity of fluid being impelled into the excretories, gives occasion to these veffels to fall into a contracted state; so, if this shall contin-

ue

ue long, these veffels will become more rigid, and will not yield to the fame impelling force as before. Although the arteries, therefore, by new blood collected in them, fhall have recov. ered their former fulnefs, tenfion, and force; yet this force will, not be in balance with the refistance of the more rigid excretories, fo as to reftore the former flate of excretion; and, confequently, a further accumulation will take place in the arteries, and an increase of their plethoric state be thereby induced. In this manner, we perceive more clearly, that hemorrhagy, as producing a more plethoric flate of the fystem, has a tendency to occasion its own recurrence with greater violence; and, as the renewal and further accumulation of blood require a determinate time, fo, in the feveral repetitions of hemorrhagy, that time will be nearly the fame ; and therefore the returns of hemorrhagy will be commonly at stated periods, as has been observed frequently to happen.

DCCXLIX.

I have thus explained the nature of hemorrhagy in general, as depending upon fome inequality in the diffribution of the blood, occafioning a congestion of it in particular parts of the fanguiferous system. It is indeed probable, that, in most persons, the feveral parts of the fanguiferous system are in balance with one another ; and that the denfity,

108

fity, and confequently the refistance, in the feveral veffels, is in proportion to the quantity of blood which each fhould receive; from whence it frequently happens, that no inequality in the diffribution of the blood takes place in the courfe of a long life. If, however, we confider that the fanguiferous fystem is conftantly in a plethoric flate, that is, that the veffels are conftantly diffended beyond that fize which they would be if free from any diftending force, we shall be fatisfied that this state may be readily changed. For as, on the one hand, the veffels are elaftic, fo as to be under a conftant tendency to contract upon the withdrawing of any part of the diftending force ; and, on the other hand, are not fo rigid but that, by an increase of the impetus of the blood in them, they may be more than ordinarily diftended ; fo we can eafily underftand how, in most perfons, caufes of an increafed contraction or diftention may arife in one part or other of the fystem, or that an unequal diffribution may take place; and how, in an exquifitely diftended or plethoric fystem, a fmall inequality in the diffribution of the blood may form those congestions which give occafion to hemorrhagy.

DCCL.

In this manner I endeavour to explain how hemorrhagy may be occafioned at any period of life, or in any part of the body; but hem-VOL. II. F orrhagies orrhagies happen in certain parts more frequently than in others, and at certain periods of life more readily than at others; and therefore, in delivering the general doctrine of hemorrhagy, it may be required that I fhould explain those circumftances which produce the fpecialities mentioned; and I fhall now attempt it.

DCCLI.

The human body, from being of a small bulk at its first formation, grows afterwards to a confiderable fize. This increase of bulk confifts, in a great measure, in the increase of the quantity of fluids, and a proportional enlargement of the containing veffels. But, at the fame time, the quantity of folid matter is alfo gradually increafed; and, in whatever manner we may suppose this to be done, it is probable that the progrefs, in the whole of the growth of animal bodies, depends upon the extension of the arterial fystem; and fuch is the conflitution of the fanguiferous fystem, that the motion of the blood in the arteries has a conftant tendency to extend them in every dimension.

DCCLII.

As the flate of the animal folid is, at the first formation of the body, very lax and yielding; fo the extension of the fystem proceeds,

110

ceeds, at firft, very faft ; but, as the extension gives occasion to the apposition of more matter to the folid parts, these are, in proportion to their extension, constantly acquiring a greater density, and therefore giving more refistance to their further extension and growth. Accordingly, we observe, that as the growth of the body advances, its increase, in any given time, becomes proportionally less and less, till at length it ceases altogether.

DCCLIII.

This is the general idea of the growth of the human body, till it attain the utmoft bulk which it is capable of acquiring ; but it is to be remarked, that this growth does not proceed equally in every part of the body ; it being requifite for the economy of the fyftem, that certain parts fhould be firft evolved, and fhould alfo acquire their full bulk fooner than others. This appears particularly with refpect to the head ; the parts of which appear to be firft evolved, and fooneft to acquire their full fize.

DCCLIV.

To favour this unequal growth, it is prefumed, that the dimensions or the laxity of the veffels of the head, or that the direction of the force of the blood, are adapted to the purpose; and from what has been faid in F_2 DCCLII,

DCCLII, it will also certainly follow, that as the veffels of the head grow fastest, and sooneft acquire their full fize, fo they will fooneft alfo acquire that denfity which will prevent their further extension. While, however, the force of the heart, and the quantity of the fluids, with respect to the whole system, remain the fame, the diffending and extending powers will be directed to fuch parts as have not yet acquired the fame denfity and dimensions as those first evolved ; and thus the distending and extending powers will proceed to operate till every part of the fystem, in respect of denfity and refistance, shall have been brought to be in balance with every other, and till the whole be in balance with the force of the heart, fo that there can be no further growth in any particular part, unless fome preternatural circumftance shall happen to arife.

DCCLV.

In this procefs of the growth of the body, as it feems in general to depend upon a certain balance between the force of the heart or diftending power, and the refiftance of the folids; fo it will appear, that, while the folids remain very lax and yielding, fome occafional increase of the diftending power may arife without producing any very perceptible diforder in the fystem. But, it will also appear, that, in proportion as the diftending power and refiftance of the folids come to be more nearly

112

nearly in exact balance with one another, fo any increase of the diffending power will more readily produce a rupture of veffels, which do not eafily yield to extension.

DCCLVI.

From all this, it must follow, that the effects of any unufually plethoric flate of the fystem, will be different according as this shall occur at different periods of the growth of the body. Accordingly, it is evident, that if the plethoric state arises while the head is yet growing, and while the determination of the blood is still more to the head than to the other parts, the increased quantity of the blood will be especially determined to the head; and as there also, at the fame time, the balance between the diftending and extending powers is most nearly adjusted, fo the determination of the blood will most readily produce in that part a rupture of the veffels, or an hemorrhagy. Hence it is, that hemorrhagies of the nole fo frequently happen in young perfons; and in these more readily, as they approach nearer to their acmé, or full growth ; or, it may be faid, perhaps more properly, as they approach nearer to the age of puberty, when perhaps, in both fexes, but efpecially in the female, a new determination arifes in the fystem.

F 3

DCCLVII.

DCCLVII.

The determination of a greater quantity of blood to the veffels of the head, might be fupposed to occasion a rupture of vessels in other parts of the head as well as in the nose; but fuch a rupture does not commonly happen; becaufe, in the nofe, there is, for the purpofe of sense, a considerable network of blood veffels expanded on the internal furface of the nostrils, and covered only with thin and weak teguments. From this circumstance it is, that upon any increased impetus of the blood in the veffels of the head, those of the nose are most easily broken; and the effusion from the nofe taking place, it not only relieves the other extremities of the external carotid, to which the arteries of the nofe chiefly belong, but relieves alfo, in a great measure, the fystem of the internal carotid. For, from the internal carotid, certain branches are fent to the nofe, are spread out on its internal surface, and probably inofculated with the extremities of the external carotid; fo that, whichfoever of the extremities are broken, the vis derivationis of Haller will take place; the effusion will relieve the whole fanguiferous system of the head ; and the fame effusion will also commonly prevent an hemorrhagy happening at the fame time in any other part of the body.

DCCLVIII.

DCCLVIII.

From these principles, it will appear why hemorrhagies of the nose, so frequent before the period of puberty, or of the acmé, seldom happen after these periods; and I must obferve further, that although they should occur, they would not afford any objection to my doctrine, as such hemorrhagies might be imputed to a peculiar laxity of the vessels of the nose, and perhaps to a habit acquired with respect to these vessels, while the balance of the fystem might be otherwise duly adjusted.

DCCLIX.

When the process of the growth of the body goes on regularly, and the balance of the fystem is properly adjusted to the gradual growth of the whole, as well as to the fucceffive growth of the feveral parts, even a plethoric state does not produce any hemorrhagy, or at least any after that of the nose ; but if, while the plethoric state continues, any inequality shall also substitute in any of the parts of the fystem, congestions, hemorrhagic or inflammatory, may be still readily formed.

DCCLX.

In general, it may be observed, that, when the several parts of the system of the aorta F 4 have have attained their full growth, and are duly balanced with one another, if then any confiderable degree of plethora remain or arife, the nicety of the balance will be between the fystems of the aorta and pulmonary artery, or between the veffels of the lungs and those of all the reft of the body. And although the leffer capacity of the veffels of the lungs is commonly compenfated by the greater velocity of the blood in them ; yet if this velocity be not always adjusted to the necessary compenfation, it is probable that a plethoric flate of the whole body will always be especially felt in the lungs ; and therefore, that an hemorrhagy, as the effect of a general plethora, may be frequently occasioned in the lungs, even though there be no fault in their conformation.

DCCLXI.

In fome cafes, perhaps, an hemorrhagy from the lungs, or an hemoptyfis, does arife from the general plethoric ftate of the body; but an hemoptyfis more frequently does, and may be expected to happen, from a faulty proportion between the capacity of the lungs and that of the reft of the body.

DCCLXII.

When fuch a difproportion takes place, it will be evident that an hemoptyfis will efpecially

116

ially happen about the time that the body is approaching to its acmé ; that is, when the fyftem of the aorta has arrived at its utmoft extension and refiftance, and when, therefore, the plethoric flate of the whole must especially affect the lungs.

DCCLXIII.

Accordingly it has been conftantly obferved, that the hemoptyfis efpecially occurs about the time of the body's arriving at its acmé ; but I muft remark alfo, that the hemorrhagy may occur fooner or later, according as the balance between the veffels of the lungs, and those of the fystem of the aorta, happens to be more or less exactly adjusted to one another ; and it may therefore often occur much later than the period mentioned, when that balance, though not quite even, is however not fo ill adjusted, but that fome other concurring causes are necessary to give it effect.

DCCLXIV.

It was anciently remarked by Hippocrates, and has been confirmed by modern obfervation, that the hemoptyfis generally occurs in perfons between the age of fifteen and that of five and thirty; that it may happen at any time between thefe two periods; but that it feldom happens before the former, or after the Vol. 2. F 5 latter;

118 PRACTICE

latter; and it may be proper here to inquire into the reafon of thefe two limitations.

DCCLXV.

With refpect to the first, the reason of it has been already explained in DCCLXII and DCCLXIII.

With refpect to the fecond limitation, I expect that the reafon of it will be underflood from the following confiderations.

It has been already obferved, that the extenfion and growth of the body require the plethoric ftate of the arterial fyftem; and nature has provided for this, partly by the conflitution of the blood being fuch, that a great portion of it is unfit to pafs into the exhalants and excretories; partly by giving a certain denfity and refiftance to the feveral exhalants and excretories through which the fluids might pafs out of the red arteries; and partly, but efpecially, by a refiftance in the veins to the free paffage of the blood into them from the arteries.

DCCLXVI.

With refpect to this laft and chief circumftance, it appears from the experiments of Sir Clifton Wintringham, in his *Experimental Inquiry*, that the proportional denfity of the coats of the veins to that of the coats of the arteries, is greater in young than in old animals:

animals: From which it may be prefumed, that the refiftance to the paffage of the blood from the arteries into the veins, is greater in young animals than in old; and, while this refistance continues, the plethoric state of the arteries must be constantly continued and supported. As however the denfity of the coats of the veffels, confifting chiefly of a cellular texture, is increased by pressure ; fo, in proportion as the coats of the arteries are more exposed to preffure by diffention than those of the veins, the former, in the progrefs of the growth of the body, must increase much more in denfity than the latter; and therefore the coats of the arteries, in respect of denfity and refistance, must come in time, not only to be in balance with those of the veins, but to prevail over them : A fact which is fufficiently proved by the experiments of the above mentioned ingenious author.

By these means, the proportional quantities of blood in the arteries and veins must change in the courfe of life. In younger animals, the quantity of blood in the arteries must be proportionally greater than in old ones; but, by the increasing density of the arteries, the quantity of blood in them must be continually diminishing, and that in the veins be proportionally increasing, fo as at length to be in a proportionally greater quantity than that in the arteries. When this change happens in the proportional quantities of the blood in the arteries and veins, it mult

F 6

must be evident that the plethoric state of the arteries will be in a great measure taken off; and therefore that the arterial hemorrhagy is no longer likely to happen; but that, if a general plethoric state afterwards take place in the fystem, it must especially appear in the veins.

DCCLXVII.

The change I have mentioned to happen in the state of the arterial and venous fystems. is properly fuppofed to take place in the human body about the age of thirty five ; when it is manifest that the vigour of the body, which depends fo much upon the fulnels and tension of the arterial system, no longer increafes; and therefore it is, that the fame age is the period, after which the arterial hemorrhagy, hemoptyfis, hardly ever appears. It is true there are inftances of the hemoptyfis happening at a later period; but it is for the reafons given (DCCLVIII), which fhow that an hemorrhagy may happen at any period of life, from accidental causes forming congestions, independent of the state of the balance of the fystem at that particular period.

DCCLXVI.

I have faid (DCCLXVI), that if after the age of thirty five, a general and preternaturai

OF PHYSIC. 121

natural plethoric state occur, it must especially appear in the venous fystem ; and I must now observe, that this venous plethora may alfo give occasion to hemorrhagy.

DCCLXIX.

If a plethoric state of the venous fystem take place, it is to be prefumed, that it will especially and in the first place affect the fyftem of the vena portarum, in which the motion of the venous blood is more flow than elfewhere; in which the motion of the blood is little affifted by external compression; and in which, from the want of valves in the veins that form the vena portarum, the motion of the blood is little affifted by the compreffion that is applied ; while, from the fame want of valves in those veins, the blood is more ready to regurgitate in them. Whether any regurgitation of the blood can produce an action in the veins, and which inverted or directed towards their extremities, can force thefe, and occafion hemorrhagy, may perhaps be disputed : But it appears to me, that an hemorrhagy, produced by a plethoric state of the veins, may be explained in another and more probable manner. If the blood be accumulated in the veins, from any interruption of its proper course, that accumulation must resist the free passage of the blood from the arteries into the veins. This, again, must produce fome congestion in the extremities

extremities of the red arteries, and therefore fome increafed action in them, which must be determined with more than usual force, both upon the extremities of the arteries, and upon the exhalants proceeding from them; and this force may occasion an effusion of blood, either by anaftomofis or rupture.

DCCLXX.

In this manner I apprehend the hemorrhoidal flux is to be explained, fo far as it depends upon the ftate of the whole fyftem. It appears most commonly to proceed from the extremities of the hemorrhoidal veffels; which being the most dependent and distant branches of those veins that form the vena portarum, are therefore the most readily affected by every accumulation of blood in that fystem of veins, and consequently by any general plethora in the venous fystem.

DCCLXXI.

It is here to be obferved, that I have fpoken of this hemorrhagy as proceeding from the hemorrhoidal veffels only, as indeed it moft commonly does; but it will be readily underflood, that the fame accumulation and refiftance to the venous blood may, from various caufes, affect many of the extremities of the vena portatu n, which lie very fuperficially upon the internal furface of the alimentary canal,

OF PHYSIC.

canal, and give occasion to what has been called the Morbus Niger or Melæna.

DCCLXXII.

Another part, in which an unufually plethoric state of the veins may have particular effects, and occasion hemorrhagy, is the head. In this, the venous fystem is of a peculiar conformation, and fuch as feems intended by nature to give there a flower motion to the venous blood. If, therefore, the plethoric state of the venous system in general, which feems to increase as life advances, should at length increase to a great degree, it may very readily. affect the venous veffels of the head, and produce there fuch a refistance to the arterial blood, as to determine this to be poured out from the nofe, or into the cavity of the cranium. The special effect of the latter effusion will be to produce the difeafe termed Apoplexy; and which, therefore, is properly named by Doctor HOFFMAN, Hæmorrhagia Cerebri : And the explanation of its caufe, which I have now given, explains well why it happens especially to men of large heads and fhort necks, and to men in the decline of life, when the powers promoting the motion of the blood are much weakened.

DCCLXXIII.

I have thus attempted to give the hiftory of the plethoric and hemorrhagic states of the the human body, as they occur at the different periods of life; and hope I have thereby explained, not only the nature of hemorrhagy in general, but alfo of the particular hemorrhagies which most commonly appear, and as they occur fucceffively at the different periods of life.

SECT. III.

Of the REMOTE CAUSES of HEMORRHAGY.

DCCLXXIV.

IN the explanation hitherto given, I have efpecially confidered the predifpolition to hemorrhagy; but it is proper alfo, and even neceffary, to take notice of the occafional caufes, which not only concur with the predifponent, in exciting hemorrhagy, but may alfo fometimes be the fole caufes of it.

DCCLXXV.

Thefe occasional caufes are,

1. External heat, which, by rarefying the blood, produces or increases the plethoric ftate of the body; and the fame heat, as giving a ftimulus to the whole fystem, must urge any particular determinations before established,

124

ed, still further, or may urge to excels any inequality, otherwife innocent; fo that, in either way, external heat may immediately excite hemorrhagies, to which there was a predifposition; or may form congestions where there were none before, and thereby occafion hemorrhagy.

2. A confiderable and fudden dimunition of the weight of the atmosphere, which seems to occafion the fame effects as heat, by producing also an expansion of the blood.

3. Whatever increases the force of the circulation, and thereby the velocity of the blood, may operate in the fame manner as heat, in urging not only previous determinations with violence, but alfo in urging to excefs inequalities, otherwise innocent. All violent exercife, therefore, and especially all violent efforts, which, not only by a larger and longer infpiration, but alfo, by the fimultaneous action of many muscles interrupting the free motion of the blood, impel it with unufual force into the extreme veffels more generally, and, according to the different poftures of the body, and mode of the effort, into certain veffels more particularly.

Among the caufes increasing the force of the circulation, anger and other violent active paffions are to be reckoned.

4. The violent exercife of particular parts of the body. If thefe are already affected with congestions, or liable to them, fuch exercife may be confidered as a ftimulus applied to

to the veffels of that particular part. Thus, any violent exercise of respiration may excite hemoptyfis, or occasion its return.

5. The poftures of the body increasing determinations, or ligatures occasioning accumulations of the blood in particular parts of the body.

6. A determination into certain veffels rendered habitual by the frequent repetition of hemorrhagy from them.

7. Cold, externally applied, as changing the diffribution of the blood, and determining it in greater quantity into the internal parts.

SECT. IV.

Of the CURE of HEMORRHAGY.

DCCLXXVI.

HAVING thus confidered the proximate and remote caufes of hemorrhagy in general, our next bufinels is, to treat of the cure of the difease in the same manner.

In entering upon this fubject, the first question which prefents itself, is, Whether the cure of hemorrhagies ought to be attempted by art, or if they should be left to the conduct of nature?

DCCLXXVII.

126

DCCLXXVII.

The latter opinion was the favourite doctrine of the celebrated Dr. STAHL, and his followers. They maintained, that the human body is much difpoled to a plethoric ftate; and, confequently, to many diforders which nature endeavours to obviate and relieve by exciting hemorrhagy: That this, therefore, is often neceffary to the balance and health of the fyftem : That it is accordingly to be generally encouraged, fometimes folicited, and is not to be fuppreffed, unlefs when it goes to great excels, or happens in parts in which it may be dangerous

DCCLXXVIII.

Much of this doctrine may be admitted. The human body, upon many occasions, becomes preternaturally plethoric; and the dangerous confequences which might from thence be apprehended, feem to be obviated by an hemorrhagy taking place: And, further, the neceffity of hemorrhagy often appears from hence, that the fuppreffion of it feems to occasion many diforders.

All this feems to be just; but in the conclusion drawn from it there is a fallacy.

DCCLXXIX.

It appears to me certain, that hemorrhagy, either upon its first attack, or upon its after recurrence, is never neceffary to the health of the body, excepting upon the supposition, that the plethoric state which seems to require the evacuation, cannot be otherwise prevented or removed; and as I imagine it possible by other means to prevent or remove a plethoric state, fo I do not think that hemorrhagy is, in all cases, neceffary. In general, I am of opinion that hemorrhagy is to be avoided,

1. Becaufe it does not always happen in parts where it is safe.

2. Becaufe often, while it does relieve a plethoric state, it may, at the fame time, induce a very dangerous difease.

3. Becaufe it may often go to excels, and either endanger life, or induce a dangerous infirmity.

And, laftly, Becaufe it has a tendency to increafe the plethoric ftate it was meant to relieve; to occafion its own recurrence, (DCCXXI); and thereby to induce a habit, which, if left to the precarious and unequal operation of nature, may, from the frequent errors of this, be attended with much danger.

DCCLXXX.

It is further to be confidered, that hemorrhagies do not always arife from the neceffities of of the fystem, but often proceed from incidental causes. It appears to me that all hemorrhagies of the latter kind may be immediately suppressed, and the repetition of them, as it induces a plethora, and a habit not otherwise necessary, may be prevented with great advantage.

DCCLXXXI.

Upon the whole of this subject, I conclude, that every preternatural hemorrhagy, or, in other words, every one except that of the menses in females, is to be avoided, and efpecially the returns of it prevented; and I therefore now proceed to mention, how hemorrhagy, and its recurrences, may, and fhould be prevented.

DCCLXXXII.

From the principles delivered above, it will immediately appear, that the prevention, either of the first attacks, or of the returns of hemorrhagy, will chiefly, and in the first place, depend upon the preventing or removing any confiderable degree of a plethoric state which may happen to prevail in the body. It is true, that, where the hemorrhagy depends upon the particular conformation of certain parts, rather than upon the general plethoric state of the whole; the measures for removing or preventing the latter, may not always

always be fufficient for preventing hemorrhagy : But at the fame time it must be evident, that determinations in confequence of the conformation of particular parts, will always be urged more or lefs, in proportion to the greater or leffer degree of the plethoric flate of the whole fystem; and, therefore, that, even in the cafes depending upon particular conformation, the preventing or removing an unufually plethoric state, will always be a chief means of preventing hemorrhagy. It is further to be attended to, that there may be feveral inequalities in the balance of the fystem, which may have little or no effect unless when the fyftem becomes preternaturally plethoric; and therefore, that in cafes, the preventing or removing of the plethoric state of the systemwill be a chief means of preventing the first attacks, or the returns of hemorrhagy. It now, therefore, remains to explain, how the plethoric flate of the fystem is to be prevented or removed.

DCCLXXXIII.

The fluids of the human body are in continual wafte by the excretions, but are commonly replaced by the aliments taken in; and if the quantity of aliments in any meafure exceed that of the excretions, an increase of the quantity of the fluids of the body, or, in other words, a plethoric state, must necessarily arife. This, to a certain degree, is requisite for the

OF PHYSIC.

the growth of the body : But even then, if the proportion of the aliments to the excretions be greater than is fuited to the growth of the body; and more certainly still, if, after the growth is completed, when an equality between the ingesta and the excreta should be established, the disproportion still continue, a preternaturally plethoric state must arise. In both cases, it is evident, that the plethora must be prevented or corrected by adjusting the ingesta and excreta to each other; which generally may be done, either by diminishing the ingesta, or by increasing the excreta. The former may be effected by the management of diet, the latter by the management of exercife.

DCCLXXXIV.

The ingefta may be diminifhed, either by giving aliment in lefs quantity than ufual, or by giving aliments of a lefs nutritious quality; that is, aliments of a fubftance, which, under the fame bulk and weight, contain lefs of a matter capable of being converted into animal fluids, and more of a matter ready to pafs off by the excretions, and confequently lefs of a matter to be retained and accumulated in the veffels.

The choice of aliments fuited to these purposes, must be left to be directed by the doctrines of the Materia Medica.

DCCLXXXV.

132

DCCLXXXV.

The inreafing of the excreta, and thereby diminifhing the plethoric flate of the fyftem is to beobtained by increafing the exercife of the body; and generally for adjufting the balance between the ingefta and excreta, and thereby obviating the plethoric flate, it is neceffary that exercife, in a due meafure, be very conftantly employed.

DCCLXXXVI.

The observing abstinence, and the employment of exercife, for obviating or removing the plethoric state of the body, were formerly confidered pretty fully, when treating of the gout, (DXLVIII) to DLII); fo that the lefs is neceffary to be faid here : And it is now only requisite to observe, that the same doubts, as in cases of the gout, do not occur here with regard to the fafety of those mealures, which, in a plethoric state of the body disposing to hemorrhagy, are always admilfible and proper. Here, however, it is to be observed, that some choice in the mode of exercife is neceffary, and that it should be different according to the particular determinations which may happen to prevail in the fyftem. In general, in the cafe of plethora dilposing to hemorrhagy, bodily exercise will always be hazardous, and gestation more commonly fafe.

DCCLXXXVII.

Artificial evacuations may be employed to diminifh the plethoric flate of the body; and when, at any time, it has become confiderable, and immediately threatens a difeafe, thefe evacuations fhould be made to the quantity that the fymptoms feem to require. But it is conftantly to be attended to, that bloodlettings are improperly employed to prevent a plethora, as they have a tendency to increafe it (DCCXXI); and as they require to be often repeated, and are thereby apt to induce a habit which may be attended with much danger.

DCCLXXXVIII.

While a plethora, and thereby the predifpofition to hemorrhagy, is avoided, or removed, the other measures neceffary for preventing the occurrence of this, are those for avoiding the remote causes. These have been enumerated in (DCCLXXV); and the means of avoiding them, so far as within our power, are sufficiently obvious.

DCCLXXXIX.

Having thus mentioned the means of preventing either the first attacks, or the recurrence of hemorrhagy; I must next fay how Vol. II. G it

11

PRACTICE

134

it is to be managed when it has actually come on.

DCCXC.

When an hemorrhagy has come on which appears to have arifen from a preternaturally plethoric flate, or from fome change in the balance of the fanguiferous fyftem, no meafures are to be immediately taken for fuppreffing it; as we may expect, that, when the quantity of blood neceffary for the relief of the fyftem is poured out, the effution will fpontaneoufly ceafe.

DCCXCI.

In many cafes, however, it may be fulpected, that the quantity of blood poured out, is not exactly in proportion to the neceffities of the fystem, either for relieving a general plethora or a particular congestion, but that it is often to a greater quantity than these require. This we suppose to happen in confequence of an inflammatory diathesis prevailing, and of a febrile spass being formed; and therefore it is in many cafes proper, as well as for the most part stafe, to moderate the evacuation; and when it threatens to go to excess, to suppress it altogether.

OFPHYSIC. 135

DCCXCII.

An hemorrhagy may be moderated by avoiding any irritation that might concur to increase it; fo that every part of the antiphlogistic regimen is to be observed; in particular external heat, both as it rarefies the fluids, and flimulates the folids, is to be carefully avoided: And it is probable, that in all cafes an hemorrhagy may be fafely moderated by cool air applied, and cold drink exhibited.

DCCXCIII.

A fecond means for the fame purpofe, is the use of refrigerant medicines, and particularly of acids and nitre.

DCCXCIV.

A 'third means which has been frequently employed, is that of bloodletting. The propriety of this practice may be doubtful, as the quantity of blood poured out by the hemorrhagy may be fuppofed to answer the purpole of an evacuation in any other way; and I am ready to allow, that the practice has been often fuperfluous, and fometimes hurtful, by making a greater evacuation than was necessary or fafe. At the same time, I apprehend it is not for the mere purpole of evacuating, that bloodletting is to be practifed in the cure of hemorrhagy; but that it is

e, li real

her

IL

is further necessary for taking off the inflammatory diathefis which prevails, and the febrile spafm that has been formed. Accordingly, in the cafe of hemorrhagy, when the pulfe is not only frequent but quick and full, and does not become fofter or flower upon the flowing of the blood, and that the effufion is profuse, and threatens to continue fo, it appears to me, that bloodletting may be neceffary, and I have often found it uleful. It feems probable alfo, that the particular circumstances of venefection may render it more powerful for taking off the tenfion and inflammatory irritation of the fystem, than any gradual flow from an artery.

DCCXCV.

That a fpafm of the extreme veffels has a fhare in fupporting hemorrhagy, appears to me probable from hence, that bliftering has been often found ufeful in moderating and fuppreffing the difeafe.

DCCXCVI.

Do emetics and vomiting contribute to the cure of hemorrhagy ? See Dr. BRYAN ROB-INSON on the Virtues and Power of Medicines.

DCCXCVII.

When an hemorrhagy is very profuse, and seems to endanger life, or even threatens to induce

induce a dangerous infirmity, it is agreed on all hands, that it is to be immediately fuppreff. ed by every means in our power; and particularly, that, befides the means above mentioned for moderating the difeafe, aftringents, internal or external where the latter can be applied, are to be employed for fuppreffing it.

DCCXCVIII.

The internal aftringents are either vegetable or foffil.

The vegetable aftringents are feldom very powerful in the cure of any hemorrhagies, except those of the alimentary canal.

The foffil aftringents are more powerful; but fome choice amongst the different kinds may be proper.

• The chalybeates, fo frequently employed, do not appear to me to be very powerful.

The preparations of lead are certainly more fo; but are otherwife of fo pernicious a quality, that they fhould not be employed except in cafes of the utmost danger. The Tinctura Saturnina, or Antiphthifica, as it has been called, appears to be of little efficacy; but whether from the fmall portion of lead which it contains, or from the ftate in which the lead is in it, I am uncertain.

The foffil aftringent that appears to me the most powerful, and at the same time the most fafe, is alum.

DCCXCIX.

External astringents, when they can be applied, are more effectual than the internal. The choice of these is left to the surgeons.

DCCC.

The most powerful of all astringents appears to me to be cold, which may be employed, either by applying cold water to the furface of the body, or by throwing it into the internal parts.

DCCCI.

For fuppreffing hemorrhagies, many fuperfitious remedies and charms have been recommended, and pretended to have been employed with fuccefs. The feeming fuccefs of thefe, however, has been generally owing to the byftanders' miftaking a fpontaneous ceafing of the hemorrhagy for the effect of the remedy. At the fame time, I believe, that thofe remedies may have been fometimes ufeful, by impreffing the mind with horror, awe, or dread.

DCCCII.

Upon occasion of profuse hemorrhagies, opiates have been employed with advantage; and, and, when the fulnels and inflammatory diathefis of the fystem have been previously taken off by the hemorrhagy itself, or by bloodletting, I think opiates may be employed with fafety.

in he

面

DCCCIII.

For reftraining hemorrhagy, ligatures have been applied upon the limbs, in the view of retarding the return of the venous blood from the extremities; but they appear to me to be of uncertain and ambiguous ufe.

DCCCIV.

In the cafe of profuse hemorrhagies, no pains are to be taken to prevent a Deliquium Animi, or fainting, as the happening of this is often the most certain means of stopping the hemorrhagy.

DCCCV.

Having thus delivered the general doctrine of hemorrhagy, I proceed to confider the particular cafes of it. It may perhaps be remarked, that I have marked fewer of thefe than are commonly enumerated by the nofologists; but my reasons for differing from these authors, must be left to a nosological discussion, to be entered into elsewhere more properly than here.

G 4

CHAP.

140 PRACTICE

CHAP. II.

OF THE EPISTAXIS, OR HEMOR-RHAGY OF THE NOSE.

DCCCVI.

THE ftate of the veffels upon the internal furface of the nofe being fuch as already mentioned (DCCLVII), renders an hemorrhagy from that more frequent than from any other part of the body.

DCCCVII.

The blood commonly flows from one noftril only; and probably becaufe an hemorrhagy from one veffel relieves the congestion in all the neighbouring veffels.

The blood flowing from both noftrils at the fame time, fhows commonly a more confiderable difeafe.

DCCCVIII.

DCCCVIII.

This hemorrhagy happens to perfons of every confliction and temperament, but most frequently to those of a plethoric habit and fanguine temperament. It happens to both fexes, but most frequently to the male.

DCCCIX.

This hemorrhagy may occur at any time of life; but most commonly happens to young perfons, owing to the state of the balance of the system peculiar to that age, as mentioned in (DCCLVI.)

DCCCX.

Although generally it happens to perfons before they have arrived at their full growth, and more rarely afterwards; yet fometimes it happens to perfons after their acmé, and during the ftate of manhood : And it muft then be imputed to an unufually plethoric ftate of the fyftem; to an habitual determination of the blood to the veffels of the nofe; or to the particular weaknels of thefe.

DCCCXI.

In all these cases the disease may be confidered as an hemorrhagy purely arterial, and Vol. 2 G 5 depending 142

depending upon an arterial plethora; but it fometimes occurs in the decline of life, when probably it depends upon and may be confidered as a mark of a venous plethora of the veffels of the head. See DCCLXXII.

DCCCXII.

This hemorrhagy happens alfo at any period of life, in certain febrile difeafes, which are altogether or partly of an inflammatory nature, and which fhow a particular determination of the blood to the veffels of the head. These difeases often admit of a solution by this hemorrhagy, when it may be properly termed critical.

DCCCXIII.

The difeafe fometimes comes on without any previous fymptoms; particularly when fome external violence has a fhare in producing it. But when it proceeds entirely from an internal caufe, it is commonly preceded by headachs, rednefs of the eyes, a florid colour of the face, an unufual pulfation in the temples, a fenfe of fulnefs about the nofe, and an itching of the noftrils. A bound belly, pale urine, coldnefs of the feet, and cold fhivering over the whole body, are alfo fometimes among the fymptoms that precede the difeafe.

143

DCCCXIV.

a; bi ife, n ife, n ife, n ife, n ife, n ife, n

201

10 10

From the weaknefs of the veffels of the nofe, the blood often flows from them without any confiderable effort of the whole fyftem, and therefore without any obfervable febrile diforder; which, however, in many cafes, is, in all its circumftances, very difcernible.

DCCCXV.

An hemorrhagy of the nofe happening to young perfons, is, and may generally be, confidered as a flight disease of little consequence, and hardly requiring any remedy. But, even in young perfons, when it recurs very frequently, and is very copious, it will require particular attention, as it is to be confidered as a mark of arterial plethora; and as frequently returning, it may increase the plethoric flate; which in a more advanced ftage of life, may give the blood a determination to parts from which the hemorrhagy would be more dangerous. All this will more particularly require attention, according as the marks of plethora, and of particular congestion, preceding the hemorrhagy, are more confiderable; and as the flowing of the blood is attended with a more confiderable degree of febrile diforder.

G 6

DCCCXVI.

DCCCXVI.

When the epiftaxis happens to perfons after their acmé, returning frequently, and flowing copioufly, it is always to be confidered as a dangerous difeafe, and as more certainly threatening the confequences mentioned in the laft paragraph.

DCCCXVII.

When this hemorrhagy happens in the decline of life, it may be confidered as in itfelf very falutary : But at the fame time, it is to be confidered as a mark of a very dangerous flate of the fyftem ; that is, as a mark of a very flrong tendency to a venous plethora in the veffels of the head : And I have accordingly obferved it often followed by apoplexy, palfy, or fuch like difeafes,

DCCCXVIII.

When an hemorrhagy from the nofe happens in febrile difeafes, as mentioned in DCCCXII, and is in pretty large quantity, it may be confidered as critical and falutary; but it is very apt to be profufe, and even in this way dangerous.

It upon some occasions occurs during the eruptive fever of several exanthemata, and is in such cases sometimes salutary; but, if these exanthemata

OF PHYSIC.

145

exanthemata be accompanied with any putrid tendency, this hemorrhagy, like artificial bloodlettings, may have very bad effects.

DCCCXIX.

Having thus explained the feveral circumftances of epiftaxis, I proceed to confider the management and cure of it. I use the expression of management, because it has been usually thought to require no cure, but that nature should be allowed to throw out blood in this way very frequently; and as often as it appears to arise from internal causes, that is, from a state of the system supposed to require succession.

DCCCXX.

I am however of opinion, for the reafons given in DCCLX XIX, that this difeafe is very feldom to be left to the conduct of nature; and that in all cafes it fhould be moderated by keeping the patient in cool air; by giving cold drink; by keeping the body and head erect; by avoiding any blowing of the nofe, fpeaking, or other irritation: And, when the blood has flowed for fome time, without flowing any tendency to ceafe, a profufe bleeding is to be prevented by meafures employed to ftop it, fuch as preffing the noftril from which the blood flows, wafhing the

146 PRACTICE

the face with cold water, or applying this to other parts of the body.

DCCCXXI.

Even in the cafe of young perfons, where the difeafe is leaft hazardous, and even in the firft attacks, I judge fuch meafures to be proper : But they will be ftill more proper if the difeafe frequently recurs without any external violence ; if the returns fhall happen to perfons of a habit difpofed to be plethoric; and more particularly, if the marks of a plethoric ftate appear in the precedent fymptoms (DCCCXIII.)

DCCCXXII.

Even in young perfons, if the bleeding be very profufe and long continued, and more efpecially if the pulfe become weak and the face pale, I apprehend it will be proper to fupprefs the hemorrhagy by every means in our power. See DCCXCVII, and following paragraphs.

DCCCXXIII.

Further, in the fame cafe of young perfons, when the returns of this hemorrhagy become frequent, and efpecially with the marks of a plethoric habit, I think it neceffary to employ fuch a regimen as may prevent a plethoric ftate, ftate, (DCCLXXXIII—DCCLXXXVII). At the fame time, care fhould be taken to avoid all circumftances which may determine the blood more fully to the veffels of the head, or prevent its free return from them ; and, by keeping an open belly to make fome derivation from them.

DCCCXXIV.

In adult perfons, liable to frequent returns of the epiftaxis, the whole of the meafures propofed (DCCCXXIII) are more certainly and freely to be employed. When with the circumftances mentioned in DCCCXIII, the tendency to a profuse hemorrhagy appears, a bleeding at the arm may be proper, even in young perfons; but in the cafe of adults, it will be ftill more allowable, and even neceffary.

DCCCXXV.

In perfons of any age liable to frequent returns of this hemorrhagy, when the meafures proposed in DCCCXVII, et feq. shall have been neglected, or from peculiar circumstances in the balance of the system, shall have proved ineffectual, and the symptoms threatening hemorrhagy (DCCCXXXVIII) shall appear, it will then be proper, by bloodletting, cooling purgatives, and every part of the antiphlogistic regimen, to prevent the hemorrhagy,

148 PRACTICE

hemorrhagy, or at least to prevent its being profuse when it does happen.

DCCCXXVI.

In the circumftances juft now mentioned (DCCCXXV), the measures proposed are proper, and even neceffary; but it should at the same time be observed, that these are practifed with much less advantage than those pointed out in DCCCXXIV: Because, though those suggested here may prevent the coming on of the hemorrhagy for the present, they certainly, however, dispose to the return of that plethoric state which required their being used; and there can be no proper security against returns of the disease, but by purfuing the means proposed in DCCCXXIII.

DCCCXXVII.

When the hemorrhagy of the nofe happens to perfons approaching to their full growth, and when its returns have been preceded by the fymptoms DCCCXIII, it may be fuppoled, that, if the returns can be prevented by the meafures propoled in DCCCXXV, thele may be fafely employed; as the plethoric ftate induced will be rendered fafe, by the change which is foon to take place in the balance of the fystem. This, however, cannot be admitted; as the evacuations practifed upon this plan will have all the

OF PHYSIC. 149

the confequences which, I have already obferved, may follow the recurrence of the hemorrhagy itfelf.

0.

DCCCXXVIII.

When the hemorrhagy of the nofe shall be found to make its returns at nearly ftated periods, the measures for preventing it (DCCCXXV) may be practifed with great certainty; and, upon every repetition of bloodletting, by diminishing the quantity taken away, its tendency to induce a plethora may be in some measure avoided. When indeed, the repetition of evacuations is truly unavoidable, the diminishing them upon every repetition is properly practifed : But it is a practice of nice and precarious management, and should by no means be trusted to, fo far as to supersede the measures proposed in DCCCXXV, wherever these can be admitted.

DCCCXXIX.

When the hemorrhagy of the nofe happens in confequence of a venous plethora in the veffels of the head, as in DCCLXXII, the flowing of the blood pretty largely may be allowed, especially when it happens after the suppression or ceasing of the menstrual or hemorrhoidal flux. But though the flowing of the blood is, on its first occurring, to be be allowed, there is nothing more proper than guarding against its returns. This is to be done not only by the measures proposed in DCCLXXXIII, et feq. but, as the effects of a plethoric state of the vessels of the head are very uncertain; fo, upon any appearance of it, and especially upon any threatening of hemorrhagy, the plethora is to be removed, and the hemorrhagy to be obviated immediately by proper evacuations, as bloodletting, purging, and iffues; or by restoring suppressed evacuations, where this can be done.

10 10 m 10 10

CHAP.

OF PHYSIC. 151

C H A P. III.

30.1

OF THE HEMOPTYSIS, OR HEMOR-RHAGY FROM THE LUNGS.

SECT. I.

f the PHENOMENA and CAUSES of HEMOPTYSIS.

DCCCXXX.

W HEN, after fome affection of the breaft, blood is thrown out from the mouth, and is brought out with more or lefs of coughing, there can be no doubt that it comes from the lungs; and this generally afcertains the difeafe of which I am now to treat. But there are cafes in which the fource of the blood fpit out is uncertain; and therefore fome other confiderations, to be mentioned

PRACTICE

ed hereafter, are often necessary to ascertain the existence of an hemoptyfis.

152

DCCCXXXI.

The blood veffels of the lungs are more numerous than those of any other part of the body of the fame bulk. These veffels of the largest fize, as they arife from the heart, are more immediately than in any other part fubdivided into veffels of the smallest fize; and these fmall veffels fpread out near to the internal furfaces of the bronchial cavities, are fituated in a loofe cellular texture, and covered by a tender membrane only : So that, confidering how readily and frequently these veffels are gorged with blood, we may understand why an hemorrhagy from them is, next to that of the nose, the most frequent of any; and particularly, why any violent fhock given to the whole body fo readily occafions an hemoptyfis.

DCCCXXXII.

An hemoptyfis may be occafioned by external violence, at any period of life ; and I have explained above (DCCLX), why, in adult perfons, while the arterial plethora ftill prevails in the fyftem, that is, from the age of fixteen to that of five and thirty, an hemoptyfis

OF PHYSIC.

tyfis may at any time be produced, merely by a plethoric flate of the lungs.

DCCCXXXIII.

But it has been alfo obferved above, (DCCLXI), that an hemoptyfis more frequently arifes from a faulty proportion between the capacity of the veffels of the lungs and that of those of the rest of the body. Accordingly it is often a hereditary difease, which implies a peculiar and faulty conformation. And the disease also happens efpecially to perfons who discover the smaller capacity of their lungs, by the narrowness of their chest, and by the prominency of their shoulders; which last is a mark of their having been long liable to a difficult respiration.

DCCCXXXIV.

With thefe circumftances alfo the difeafe happens efpecially to perfons of a fanguine temperament; in whom particularly, the arterial plethora prevails. It happens likewife to perfons of a flender delicate make, of which a long neck is a mark; to perfons of much fenfibility and irritability, and therefore of quick parts, whofe bodies are generally of a delicate ftructure; to perfons who have been formerly liable to frequent hemorrhagies of the nofe; to perfons who have fuffered a fuppreffion of any hemorrhagy they had formerly 154

formerly been liable to, the most frequent instance of which is in females who have fuffered a suppression of their menstrual flux; and, lastly, to perfons who have suffered the amputation of any confiderable limb.

DCCCXXXV.

In most of these cases (DCCCXXXIV), the difease happens especially to perfons about the time of their coming to their full growth, or soon after it, and this for the reasons fully set forth above.

DCCCXXXVI.

From all that has been faid from DCCCXXXI to DCCCXXXV, the predifponent caufe of hemoptyfis will be fufficiently underftood, and the difeafe may happen from the mere circumftance of the predifponent cause arising to a confiderable degree. In the predifposed, however, it is often brought on by the concurrence of various occasional and exciting causes. One of thefe, and perhaps a frequent one, is external heat; which, even when in no great degree, will bring on the difease in spring, and the beginning of fummer, while the heat rarefies the blood more than it relaxes the folids which had been before contracted by the cold of winter. Another exciting cause is a fudden dimunition of the weight of the atmofphere, phere, efpecially when concurring with any effort in bodily exercife. This effort, too, alone, may often, in the predifpofed, be the exciting caufe; and more particularly, any violent exercife of refpiration. In fhort, in the predifpofed, any degree of external violence alfo may bring on the difeafe.

DCCCXXXVII.

Occafioned by one or other of these canfes (DCCCXXXVI), the disease comes on with a sense of weight and anxiety in the cheft, fome uneasines in breathing, some pain of the breast or other parts of the thorax, and some sense of heat under the sternum; and very often, before the disease appears, a faltish taste is perceived in the mouth.

DCCCXXXVIII.

Immediately before the appearance of blood, a degree of irritation is felt at the top of the larynx. To relieve this, a hawking is made, which brings up a little blood, of a florid colour, and fomewhat frothy. The irritation returns; and, in the fame manner, more blood of a like kind is brought up, with fome noife in the windpipe, as of air paffing through a fluid.

DCCCXXXIX.

156

DCCCXXXIX.

This is commonly the manner in which the hemoptyfis begins; but fometimes at the very first the blood comes up by coughing, or at least fomewhat of coughing accompanies the hawking just now mentioned.

DCCCXL.

The blood iffuing is fometimes at first in very fmall quantity, and foon difappears altogether: But, in other cases, especially when it repeatedly occurs, it is in greater quantity, and frequently continues to appear at times for several days together. It is sometimes profuse; but rarely in such quantity as either by its excess, or by its sudden suffocation, to prove immediately mortal. It commonly either ceases some semployed.

DCCCXLI.

When blood is thrown out from the mouth, it is not always eafy to determine from what internal part it proceeds; whether from the internal furface of the mouth itfelf, from the fauces, or adjoining cavities of the nofe, from the ftomach, or from the lungs. It is however, very neceffary to diffinguish the different

OF PHYSIC.

157

different cases; and, in most instances, it may be done by attending to the following confiderations.

DCCCXLII.

When the blood fpit out proceeds from fome part of the internal furface of the mouth itfelf, it comes out without any hawking or coughing: And generally, upon infpection, the particular fource of it becomes evident.

DCCCXLIII.

When blood proceeds from the fauces, or adjoining cavities of the nofe, it may be brought out by hawking, and fometimes by coughing, in the manner we have defcribed in DCCCXXXVII and DCCCXXXIX; fo that, in this way, a doubt may arife concerning its real source. A patient often lays hold of these circumstances to please himself with the opinion of its coming from the fauces, and he may be allowed to do fo : But a phyfician cannot readily be deceived, if he confider, that a bleeding from the fauces is more rare than one from the lungs ; that the former feldom happens but to perfons who have been before liable either to an hemorrhagy of the nole, or to some evident cause of erosion; and, in most cases, by looking into the fau-VOL. II. H ces.

158 PRACTICE

ces, the diffillation of the blood, if it comes from thence, will be perceived.

DCCCXLIV.

When blood proceeds from the lungs, the manner in which it is brought up will commonly flow from whence it comes : But independent of that, there are may circumftances which may occur to point it out, fuch as the period of life, the habit of body, and other marks of a predifpofition (DCCCXXXIII-DCCCXXXV); and, together with thefe, the occafional caufes (DCCCXXXVI) having been immediately before applied.

DCCCXLV.

When vomiting accompanies the throwing out of blood from the mouth, as vomiting and coughing often mutually excite each other; fo they may be frequently joined, and render it doubtful, whether the blood thrown out proceeds from the lungs or from the ftomach. We may, however, generally decide, by confidering, that blood does not fo frequently proceed from the ftomach as from the lungs: That blood proceeding from the ftomach commonly appears in greater quantity, than when it proceeds from the lungs; that the blood proceeding from the · lungs is ufually of a florid colour, and mixed with a little frothy mucus only; whereas the

the blood from the ftomach is commonly of a darker colour, more grumous, and mixed with the other contents of the ftomach: That the coughing or vomiting, according as the one or the other firft arifes in the cafes in which they are afterwards joined, may fometimes point out the fource of the blood; and, laftly, that much may be learned from the circumftances and fymptoms which have preceded the hemorrhagy.

Those which precede the hemoptyfis enumerated in DCCCXXXVII, are most of them evident marks of an affection of the lungs. And, on the other hand, the hematemefis, or iffuing of blood from the ftomach, has also its peculiar fymptoms and circumstances preceding it ; as, for instance, some morbid affection of this organ, or at leaft fome pain, anxiety, and sense of weight, referred diffinctly to the region of the ftomach. To all this may be added, that the vomiting of blood happens more frequently to females than to males; and to the former, in confequence of a suppression of their menstrual flux: and, by attending to all these confiderations (DCCCXLII-DCCCXLV), the prefence of the hemoptyfis may commonly be fufficiently afcertained.

SECT.

PRACTICE

160

SECT. II.

Of the CURE of HEMOPTYSIS.

DCCCXLVI.

THIS difeafe is fometimes attended with little danger; as, when it happens to females in confequence of a fuppreffion of the menses; when, without any marks of a predisposition, it arises from external violence; or when, from whatever caufe arifing, it leaves behind it no cough, dyfpnæa, or other affection of the lungs. Even in fuch cafes, however, a danger may arife from too large an wound being made in the veffels of the lungs; from a quantity of red blood being left to stagnate in the cavity of the bronchiæ; and particularly from any determination of the blood being made into the veffels of the lungs, which, by renewing the hemorrhagy, may have dangerous confequences. In every instance therefore of hemoptyfis, the effusion is to be moderated by the feveral means mentioned DCCXCII to DCCXCV.

DCCCXLVII.

OF PHYSIC. 161 DCCCXLVII.

These measures are especially neceffary when the hemoptyfis arifes in confequence of predisposition; and in all cases where there is the appearance of a large effusion, or where the hemorrhagy frequently returns, the effusion is not only to be moderated, but to be entirely stopped, and the returns of it prevented by every means in our power. See DCCXCVII, and following.

DCCCXLVIII.

To ftop an hemoptyfis, or prevent the returns of it, two medicines have been frequently employed; neither of which I can approve of. Thefe are, chalybeates, and the Peruvian bark. As both of them contribute to increase the phlogistic diathefis of the fyftem, they can hardly be fase in any case of active hemorrhagy, and I have frequently found them hurtful.

DCCCXLIX.

As the hemoptyfis, which happens in confequence of predifpofition, is always attended with a phlogiftic diathefis; and, as the bad confequences of the difeafe are efpecially to be apprehended from the continuance of that diathefis; fo this is to be induftrioufly taken off by bloodletting, in greater or fmall-

er

er quantity, and more or lefs frequently repeated, according as the fymptoms fhall direct. At the fame time, cooling purgatives are to be employed, and every part of the antiphlogiftic regimen is to be ftrictly enjoined. The refrigerants may alfo be adminiftered; taking care, however, that the acids, and more efpecially the nitre, do not excite coughing.

DCCCL.

From what was observed in DCCXCV, it will appear, that bliftering upon the breaft or back may be a remedy of hemoptysis, when it is prefent; and that iffues in the fame places may be useful in preventing the recurrence of it when it has ceased.

DCCCLI.

The avoiding of motion is generally a proper part of the antiphlogiftic regimen; and in the hemoptyfis, nothing is more neceffary than avoiding bodily exercife: But fome kinds of geftation, as failing, and travelling in an eafy carriage on fmooth roads, have often proved a remedy.

DCCCLII.

Such is the treatment I can propole for the hemoptyfis, confidered merely as an hemorrhagy;

162

rhagy: But when, in fpite of all our precautions, it continues to recur, it is often followed by an ulceration of the lungs, and a phthifis pulmonalis. This, therefore, I muft now proceed to confider; but, as it arifes alfo from other caufes befides the hemoptyfis, it muft be treated of with a more general view.

164 PRACTICE

C H A P. IV.

OF THE PHTHISIS PULMONALIS, OR CONSUMPTION OF THE LUNGS.

SECT. I.

Of the PHENOMENA and CAUSES of the PHTHISIS PULMONALIS.

DCCCLIII.

THE Phthifis Pulmonalis I would define to be, An expectoration of pus or purulent matter from the lungs, attended with a hectic fever.

As this is the principal fpecies of phthifis, I fhall frequently in this chapter employ the general term of phthifis, though ftrictly meaning the phthifis pulmonalis.

DCCCLIV.

16

DCCCLIV.

I have met with fome inftances of an expectoration of purulent matter, continuing for many years, accompanied with very few fymptoms of hectic, and at leaft without any hectic exquifitely formed : But, in none of these inftances, were the perfons fo entirely free from fymptoms of hectic, as to form any exception to the general definition.

DCCCLV.

In every inftance of an expectoration of pus, I prefume there is an ulceration of the lungs. The late Mr. de Haen is the only author that I know of who has advanced another opinion, and has fuppofed, that pus may be formed in the blood veffels, and be from thence poured into the bronchiæ. Admitting his fact, I have attempted an explanation of the appearance of pus without ulceration in CCCXLIX : But, after all, I cannot help fulpecting the accuracy of his obfervations; must entirely reject his explanation of them; must however allow, that we fill want facts to support the explanation I have offered; and doubt much if it will apply to any cafe of phthifis. For these reasons I fill conclude, agreeably to the faith of all other diffections, and the opinions of all phyficians, that the fymptoms mentioned in VOL. 2. H 5 our our definition depend always upon an ulceration formed in the lungs.

DCCCLVI.

It has fometimes happened, that a catarrh was attended with an expectoration of a matter fo much refembling pus, that phyficians have been often uncertain whether it was mucus or pus, and therefore whether the difeafe was a catarrh or a phthifis. It is often of confequence to determine thefe queftions; and it appears to me that it may be generally done, with fufficient certainty, from the following confiderations, of which each particular is not always fingly decifive, but when they are taken together can hardly deceive us.

1. From the colour of the matter; as mucus is naturally transparent, and pus always opake. When mucus becomes opake, as it fometimes does, it becomes white, yellow, or greenish; but the last mentioned colour is hardly ever fo remarkable in mucus as in pus.

2. From the confiftence; as mucus is more vifcid and coherent, and pus lefs fo, and may be faid to be more friable. When mucus is thrown into water, it is not readily diffufed, but remains united in uniform and circular maffes: But pus, in the fame circumflances, though not readily diffufed, does not remain

OF PHYSIC.

remain fo uniformly united, and by a little agitation is broken into ragged fragments.

3. From the odour; which is feldom perceived in mucus, but frequently in pus. It has been proposed to try the odour of the matter expectorated, by throwing it upon live coals: But in such a trial both mucus and pus give out a difagreeable smell, and it is not easy to diftinguish between them.

4. From the fpecific gravity compared with water; and, indeed, it is ufual for the mucus of the lungs to fwim on the furface of water, and for pus to fink in it. But in this we may fometimes be deceived; as pus which has entangled a great deal of air may fwim, and mucus that is free from air may fink.

5. From the mixture which is difcernible in the matter brought up: For if a yellow or greenifh matter appears furrounded with a quantity of transparent or lefs opake and lefs: coloured matter, the more ftrongly coloured matter may be generally confidered as pus; as it is not eafy to understand how one portion of the mucus of the lungs can be very confiderably changed, while the rest of it is very little fo, or remains in its ordinary state.

6. From the admixture of certain fubftances, with the matter thrown out from the lungs. To this purpofe we are informed by the experiments of the late Mr. Charles Darwin : a. That the vitriolic acid diffolves both mucus and pus, but most readily the former : That, if water be added to fuch a folution of

mucus,,

mucus, this is feparated, and either fwims on the furface, or, divided into flocculi, is fufpended in the liquor; whereas, when water is added to a like folution of pus, this falls to the bottom, or by agitation is diffused fo as to exhibit an uniformly turpid liquor. b. That a folution of the cauftic fixed alkali, after fome time, diffolves mucus, and generally pus; and, if water be added to fuch folutions, the pus is precipitated, but the mucus is not. From fuch experiments it is fuppofed, that pus and mucus may be certainly diftinguished from each other.

From the expectoration's being attended with a hectic fever. A catarrh, or expectoration of mucus, is often attended with fever; but never, fo far as I have observed, with fuch a fever as I am prefently to defcribe as a hectic. This, in my opinion, is the most certain mark of a purulent state in some part of the body; and if others have thought differently, I am perfuaded that it has been owing to this, that, prefuming upon the mortal nature of a confirmed or purulent phthifis, they have confidered every cafe in which a recovery happened, as a catarrh only : But, that they may have been miftaken in this, shall be fhown hereafter.

DCCCLVII.

Having thus confidered the first part of the character of the phthifis pulmonalis as a mark

mark of an ulceration of the lungs; and having juft now faid, that the other part of the character, that is, the hectic fever, is a mark or indication of the fame thing; it is proper now to confider this here, as I had with that view omitted it before (LXXIV).

DCCCLVIII.

A hectic fever has the form of a remittent, which has exacerbations twice every day. The first of these occurs about noon, sometimes a little fooner or later; and a flight remiffion of it happens about five afternoon. This laft is foon fucceeded by another exacerbation, gradually increasing till after midnight : But after two o'clock of the morning, a remiffion takes place, which becomes more and more confiderable as the morning advances. The exacerbations are frequently attended with fome degree of cold fhivering; or at least, the patient is exceedingly fensible to any coolnefs of the air, feeks external heat, and often complains of a fenfe of cold, when, to the thermometer, his fkin is preternaturally warm. Of these exacerbations, that of the evening is always the most confiderable.

DCCCLIX.

It has commonly been given as a part of the character of a hectic fever, that an exacerbation

acerbation of it commonly appears after the taking food; and it is true that dinner, which is taken at noon or after it, does feem to occasion some exacerbation. But this must not make us judge the midday exacerbation to be the effect of eating only; for I have often observed it to come on an hour before noon, and often fome hours before dinner; which, in this country at prefent, is not taken till some time after noon. It is indeed to be observed, that in almost every perfon, the taking food occasions fome degree of fever : But I am perfuaded this would not appear fo confiderable in a hectic, were it not that an exacerbation of fever is prefent from another cause; and accordingly, the taking food in the morning has hardly any fenfible effect.

DCCCLX.

I have thus described the general form of hectic fever; but many circumstances attending it are further to be taken notice of.

The fever I have defcribed does not commonly fubfift long, till the evening exacerbations become attended with fweatings; which continue to recur, and to prove more and more profuse through the whole course of the difease.

Almost from the first appearance of the hectic, the urine is high coloured, and depofits a copious branny red fediment, which hardly hardly ever falls close to the bottom of the veffel.

In the hectic, the appetite for food is generally lefs impaired than in any other kind of fever.

The thirft is feldom confiderable; the mouth is commonly moift; and as the difeafe advances, the tongue becomes free from all fur, appears very clean; and, in the advanced ftages of the difeafe, the tongue and fauces appear to be fomewhat inflamed, and become more or lefs covered, with aphthæ.

As the difeafe advances, the red veffels of the adnata of the eye difappear, and the whole of the adnata becomes of a pearly white.

The face is commonly pale; but, during the exacerbations, a florid red, and an almost circumfcribed fpot, appear on each cheek.

For fome time, in the courfe of a hectic, the belly is bound; but, in the advanced ftages of it, a diarrhœa almost always comes on, and continues to recur frequently during the rest of the disease, alternating in some measure with the fweatings mentioned above.

The difeafe is always attended with a debility, which gradually increafes during the courfe of it.

During the fame courfe an emaciation takes place, and goes to a greater degree than in almost any other case.

The falling off of the hairs, and the adunque form of the nails, are also fymptoms of the want of nourifhment.

171

Towards

172

Towards the end of the disease, the feet are often affected with œdematous swellings.

The exacerbations of the fever are feldom attended with any headach, and fcarcely ever with delirium.

The fenfes and judgment commonly remain entire to the very end of the difeafe ; and the mind, for the most part, is confident and full of hope.

Some days before death, a delirium comes on, and commonly continues to the end.

DCCCLXI.

The hectic fever now described (DCCCLVIII, DCCCLIX) as accompanying a purulent state of the lungs, is perhaps the cafe in which it most frequently appears; but I have never feen it in any cafe, when there was not evidently, or when I had not ground to fuppofe, there was a permanent purulency or ulceration in fome external or internal part. It was for this reafon that in LXXIV, I concluded it to be a fymptomatic fever only. Indeed, it appears to me to be always the effect of an acrimony abforbed from absceffes or ulcers, although it is not equally the effect of every fort of acrimony ; for the fcorbutic and cancerous kinds often fubfift long in the body without producing a hectic. What is the precise flate of the acrimony producing this, I cannot determine, but it it feems to be chiefly that of a vitiated purulency.

DCCCLXII.

However this may be, it appears, that the hectic's depending in general upon an acrimony, explains its peculiar circumstances. The febrile state feems to be chiefly an exacerbation of that frequency of the pulfe, which occurs twice every day to perfons in health, and may be produced by acrimony alone. Thefe exacerbations, indeed, do not happen without the proper circumstances of pyrexia ; but the fpasm of the extreme veffels in a hectic does not feem to be fo confiderable as in other fevers; and hence the flate of fweat and urine which appears fo early and fo conftantly in hectics. Upon the fame fupposition of an acrimony corrupting the fluids, and debilitating the moving powers, I think that most of the other fymptoms may also be explained.

DCCCLXIII.

Having thus confidered the characteriftical fymptoms and chief part of the proximate caufe of the phthifis pulmonalis, I proceed to obferve, that an ulcer of the lungs, and its concomitant circumftance of hectic fever, may arife from different previous affections of the lungs; all of which however may, in my opinion, be referred to five heads; that is, 1. To 174

1. To an hemoptyfis; 2. To a fuppuration of the lungs in confequence of pneumonia; 3. To catarrh; 4. To afthma; or, 5. To a tubercle. Thefe feveral affections, as caufes of ulcers, fhall now be confidered in the order mentioned.

DCCCLXIV.

It has been commonly supposed, that an hemoptyfis was naturally, and almost necessarily, followed by an ulcer of the lungs. But I will prefume to fay, that, in general, this is a miftake; for there have been many inftances of hemopty fis occasioned by external violence, without being followed by any ulcer of the lungs; and there have also been many instances of hemoptyfis from an internal caufe, without any confequent ulceration. And this too has been the cafe, not only when the hemoptyfis happened to young perfons, and recurred for feveral times, but when it has often recurred during the courfe of a long life. It is indeed eafy to conceive, that a rupture of the veffels of the lungs, like that of the veffels of the nofe, may be often healed, as the furgeons speak, by the first intention. It is probable therefore, that it is an hemoptyfis in particular circumstances only, which is neceffarily followed by an ulcer; but what these circumstances are, it is difficult to determine. It is poffible, that merely the degree of rupture, or frequently repeated rupture

ture preventing the wound from healing by the first intention, may occasion an ulcer; or it is possible that red blood effused, and not brought up entirely by coughing, may, by stagnating in the bronchiæ, become acrid, and erode the parts. These however are but suppofitions, not supported by any clear evidence. And, if we confider that those cases of hemoptysis which follow the predisposition (DCCCXXXII—DCCCCXXXV) are those especially which end in phthis, we shall be led to suspect that there are some other circumstances which concur here to determine the consequence of hemoptysis, as I shall hereafter endeavour to show.

DCCCLXV.

Any fuppofition, however, which we can make with refpect to the innocence of an hemoptyfis, muft not fuperfede the meafures propofed above for its cure ; both becaufe we cannot certainly forefee what may be the confequences of fuch an accident, and becaufe the meafures above fuggefted are fafe ; for, upon every fuppofition, it is a diathefis phlogiftica that may urge on every bad confequence to be apprehended.

DCCCLXVI.

The fecond caufe of an ulceration of the lungs, to be confidered, is a fuppuration formed in confequence of pneumonia. DCCCLXVII.

DCCCLXVII.

From the fymptoms mentioned in DCCCLVIII, DCCCLIX, it may with reafon be concluded, that an abfcefs, or, as it is called, a vomica, is formed in fome part of the pleura, and most frequently in that portion of it invefting the lungs. Here purulent matter frequently remains for fome time, as if inclosed in a cyft; but commonly it is not long before it comes to be either abforbed, and transferred to fome other part of the body; or that it breaks through into the cavity of the lungs, or into that of the thorax. In the latter case, it produces the disease called empyema; but it is only when the matter is poured into the cavity of the bronchiæ, that it properly conflitutes the phthifis pulmonalis. In the cafe of empyema, the chief circumftances of a phthifis are indeed alfo prefent; but I shall here confider that cafe only in which the abfcefs of the lungs gives occafion to a purulent expectoration.

DCCCLXVIII.

An abscess of the lungs, in consequence of pneumonia, is not always followed by a phthifis : For sometimes a hectic fever is not formed; the matter poured into the bronchiæ is a proper and benign pus, which is frequently coughed up very readily, and fpit out; and,

and, though this purulent expectoration should continue for some time, yet if a hectic does not come on, the ulcer foon heals, and every morbid fymptom difappears. This has happened fo frequently, that we may conclude, that neither the accels of the air, nor the conftant motion of the lungs, will prevent an ulcer of these parts from healing, if the matter of it be well conditioned. An abfcels of the lungs, therefore, does not neceffarily produce the phthifis pulmonalis; and if it be followed by fuch a difeafe, it must be in consequence of particular circumstances which corrupt the purulent matter produced, render it unfuitable to the healing of the ulcer, and at the fame time make it afford an acrimony, which, being abforbed, produces a hectic and its confequences.

DCCCLXIX.

The corruption of the matter of fuch abfceffes may be owing to feveral caufes; as, 1. That the matter effufed during the inflammation, had not been a pure ferum fit to be converted into a laudable pus, but had been united with other matters which prevented that, and gave a confiderable acrimony to the whole : Or, 2. That the matter effufed, and converted into pus, either merely by a long ftagnation in a vomica, or by its connexion with an empyema, had been fo corrupted as to become unfit for the purpofe of pus, 178

pus, in the healing of the ulcer. These feem to be possible causes of the corruption of matter in absceffes, so as to make it the occasion of a phthis in perfons otherwise found; but it is probable that a pneumonic abscess does especially produce phthis when it happens to perfons previously disposed to that disease, and therefore only as it concurs with some other causes of it.

DCCCLXX.

The third cause supposed to produce phthisis, is a catarrh; which in many cafes feems, in length of time, to have the expectoration of mucus proper to it, gradually changed into an expectoration of pus; and at the fame time, by the addition of a hectic fever, the difeafe, which was at first a pure catarrh, is converted into a phthifis. This fuppofition, however, is not eafily to be admitted. The catarrh is properly an affection of the mucous glands of the trachea and bronchiæ, analogous to the coryza, and lefs violent kinds of cynanche tonfillaris, which very feldom terminate in fuppuration. And although a catarrh fhould be difposed to fuch termination, yet the ulcer produced might readily heal up, as it does in the cafe of a cynanche tonfillaris; and therefore fhould not produce a phthifis.

DCCCLXXI.

Further, the catarrh, as purely the effect of cold, is generally a mild difeafe, as well as of fhort duration ; and of the numerous instances of it, there are at most but very few cafes which can be faid to have ended in phthifis. In all those cases in which this feems to have happened, it is to me probable that the perfons affected were peculiarly predifposed to phthifis. And the beginning of phthifis fo often refembles a catarrh, that the former may have been mistaken for the latter. Besides, to increase the fallacy, it often happens that the application of cold, which is the most frequent caufe of catarrh, is alfo frequently the exciting cause of the cough which proves the beginning of phthifis.

DCCCLXXII.

It is to me, therefore, probable, that a catarrh is very feldom the foundation of phthifis; but I would not politively affert that it never is fo; for it is polfible that the cafes of a more violent catarrh may have joined with them a pneumonic affection, which may end in a fuppuration; or it may happen that a long continued catarrh, by the violent agitation of the lungs in coughing, will produce fome of those tubercles which are

PRACTICE

180

are prefently to be mentioned as the most frequent cause of phthis.

DCCCLXXIII.

It must be particularly observed here, that nothing faid in DCCCLXXII, should allow us to neglect any appearance of catarrh, as is too frequently done; for it may be either the beginning of a phthis, which is mistaken for a genuine catarrh; or that even as a catarrh continuing long, it may produce a phthis, as in DCCCLXXII.

DCCCLXXIV.

Many phyficians have fuppofed an acrimony of the fluids eroding fome of the veffels of the lungs, to be a frequent caufe of ulceration and phthifis. But this appears to me to be a mere fuppofition ; for in any of the inftances of the production of phthifis which I have feen, there was no evidence of any acrimony of the blood capable of eroding the veffels. It is true, indeed, that in many cafes an acrimony fubfifting in fome part of the fluids, is the caufe of the difeafe ; but it is at the fame time probable, that this acrimony operates by producing tubercles, rather than by any direct erofion.

DCCCLXXV.

DCCCLXXV.

It has been mentioned in DCCCLXIII, that an afthma may be confidered as one of the caufes of phthifis; and by afthma I mean, that fpecies of it which has been commonly named the Spafmodic. This difeafe frequently fubfifts very long without producing any other, and may have its own peculiar fatal termination, as fhall be explained hereafter. But I have feen it frequently end in phthifis; and in fuch cafes I fuppofe it to operate in the manner above alleged of catarrh; that is, by producing tubercles, and their confequences, which fhall be prefently mentioned.

DCCCLXXVI.

I come now to confider the fifth head of the caufe of phthifis, and which I apprehend to be the moft frequent of any. This I have faid, in general, to be tubercles; by which term are meant, certain fmall tumours, which have the appearance of indurated glands. Diffections have frequently flown fuch tubercles formed in the lungs; and although at first indolent, yet at length they become inflamed, and are thereby changed into little abfceffes, or vomicæ; which breaking, and pouring their matter into the bronchiæ, give a purulent expectoration, and thus lay the foundation of phthifis.

VOL. II.

DCCCLXXVII.

182

DCCCLXXVII.

Though the matter expectorated upon these occasions has the appearance of pus, it is feldom that of a laudable kind ; and, as the ulcers do not readily heal, but are attended with a hectic fever, for the most part ending fatally, I prefume that the matter of the ulcers is imbued with a peculiarly noxious acrimony, which prevents their healing, and produces a phthis in all its circumstances, as mentioned above.

DCCCLXXVIII.

It is very probable that the acrimony which thus difcovers itfelf in the ulcers, exifted before and produced the tubercles themfelves; and it is to this acrimony that we muft trace up the caufe of the phthifis following thefe tubercles. This acrimony is probably, in different cafes, of different kinds; and it will not be eafy to determine its varieties : But to a certain length I fhall attempt it.

DCCCLXXIX.

In one cafe, and that, too, a very frequent one, of phthifis, it appears, that the noxious acrimony is of the fame kind with that which prevails in the fcrophula. This may be concluded from observing, that a phthifis, at its used

usual periods, frequently attacks persons born of scrophulous parents; that is, of parents who had been affected with fcrophula in their younger years : That very often, when the phthifis appears, there occur at the fame time fome lympathic tumours in the external parts; and very often I have found the tabes melenterica, which is a scrophulous affection, joined with the phthifis pulmonalis. To all this I would add, that, even when no fcrophulous affection has either manifeftly preceded or accompanied a phthifis, this last, however, most commonly affects persons of a habit refembling the fcrophulous ; that is, perfons of a fanguine, or of a fanguineo melancholic temperament, who have very fine skins, rofy complexions, large veins, foft flesh, and thick upper lip : And further, that in fuch perfons the phthifis comes on in the fame manner that it does in perfons having tubercles, as fhall be immediately explained.

DCCCLXXX.

Another fpecies of acrimony producing tubercles of the lungs, and thereby phthifis may be faid to be the exanthematic. It is well known, that the fmall pox fometimes, and more frequently the meafles, lay the foundation of phthifis. It is probable alfo, that other exanthemata have the fame effect; and from the phenomena of the difeafe, and the diffections of perfons who have died of it, it is I_2 probable, probable, that all the exanthemata may occafion a phthifis, by affording a matter which in the first place produces tubercles.

DCCCLXXXI.

Another acrimony, which feems fometimes to produce phthifis, is the fiphylitic : But whether fuch an acrimony produces phthifis in any other perfons than the previoufly difpofed, does not appear to me certain.

DCCCLXXXII.

What other fpecies of acrimony, fuch as from fcurvy, from pus abforbed from other parts of the body, from fuppreffed eruptions, or from other fources, may alfo produce tubercles and phthifis, I cannot now decide, but must leave to be determined by those who have had experience of fuch cases.

DCCCLXXXIII.

There is one peculiar cafe of phthifis, which from my own experience I can take notice of. This is the cafe of phthifis from a calcareous matter formed in the lungs, and coughed up, frequently with a little blood, fometimes with mucus only, and fometimes with pus. How this matter is generated, or in what precife part of the lungs it is feated, I acknowledge myfelf ignorant. In three cafes of of this kind which have occurred to me, there was at the fame time no appearance of flony or earthy concretions in any other part of the body. In one of thefe cafes, an exquifitely formed phthifis came on, and proved mortal : While in the other two, the fymptoms of phthifis were never fully formed ; and after fome time, merely by a milk diet and avoiding irritation, the patients entirely recovered.

DCCCLXXXIV.

Another foundation for phthifis, analogous, as I judge, to that of tubercles, is that which occurs to certain artificers whofe employments keep them almoft conftantly exposed to duft; fuch as ftonecutters, millers, flaxdreffers, and fome others. I have not observed in this country many inftances of phthifis which could be referred to this cause; but, from RAMAZZINI, MORGAGNI, and some other writers, we must conclude fuch cases to be more frequent in the southern parts of Europe.

DCCCLXXXV.

Befides thefe now mentioned, there are probably fome other caufes producing tubercles, which have not yet been afcertained by obfervation ; and it is likely, that in the ftate of tubercles there is a variety not yet accounted for : But all this must be left to future obfervation and inquiry.

III XXXX II 3

DCCCLXXXVI.

DCCCLXXXVI.

It has been frequently fuppofed by phyficians, that the phthifis is a contagious difeafe; and I dare not affert that it never is fuch: But in many hundred inftances of the difeafe which I have feen, there has been hardly one which to me could appear to have arifen from contagion. It is poffible, that in warmer climates the effects of contagion may be more difcernible.

After having faid that a phthifis arifes from tubercles more frequently than from any other caufe; and after having attempted to affign the variety of thefe, I now proceed to mention the peculiar circumftances and fymptoms which ufually accompany the coming on of the difeafe from tubercles.

DCCCLXXXVII.

A tuberculous and purulent flate of the lungs has been obferved in very young children, and in fome others at feveral different periods before the age of puberty and full growth; but inftances of this kind are rare; and the attack of phthifis, which we have reafon to impute to tubercles, ufually happens at the fame period which I have affigned for the coming on of the hemoptyfis.

DCCCLXXXVIII.

The phthifis from tubercles does alfo generally affect the fame habits as the hemoptyfis; that is, perfons of a flender make, of long necks, narrow chefts, and prominent fhoulders : But very frequently the perfons liable to tubercles, have lefs of the florid countenance, and of the other marks of an exquifitely fanguine temperament, than the perfons liable to hemoptyfis.

DCCCLXXXIX.

This difease, arifing from tubercles, usually commences with a flight and fhort cough, which becomes habitual, is often little remarked by those affected, and sometimes fo little as to be absolutely denied by them. At the fame time their breathing becomes eafily hurried by any bodily motion, their body grows leaner, and they become languid and indolent. This state sometimes continues for a year, or even for two years, without the perfons making any complaint of it, excepting only that they are affected by cold more readily than usual, which frequently increases their cough, and produces fome catarrh. This, again, however, is fometimes relieved ; is fuppofed to have arisen from cold alone ; and therefore gives no alarm either to the patient or to his friends, I 4

188 PRACTICE

friends, nor leads them to take any precautions.

DCCCXC.

Upon one or other of these occasions of catching cold, as we commonly speak, the cough becomes more confiderable; is particularly troublesome upon the patient's lying down at night; and in this state continues longer than is usual in the case of a simple catarrh. This is more especially to call for attention, if the increase and continuance of cough come on during the summer season.

DCCCXCI.

The cough which comes on as in DCCCLXXXIX, is very often for along time without any expectoration; but when, from repeatedly catching cold, it becomes more conftant, it is then at the fame time attended with fome expectoration, which is moft confiderable in the mornings. The matter of this expectoration becomes by degrees more copious, more vifcid, and more opake; at length of a yellow or greenifh colour, and of a purulent appearance. The whole of the matter, however, is not always at once entirely changed in this manner; but, while one part of it retains the ufual form of mucus, another fuffers the changes now defcribed.

DCCCXCII.

DCCCXCII.

When the cough increases, and continues very frequent through the night, and when the matter expectorated undergoes the changes I have mentioned, the breathing at the fame time becomes more difficult, and the emaciation and weakness go on also increasing. In the female fex, as the difease advances, and fometimes early in its progress, the menses cease to flow; and this circumstance is to be confidered as commonly the effect, although the fex themselves are ready to believe it the fole cause of the difease.

DCCCXCIII.

When the cough comes on as in DCCCLXXXIX, the pulle is often natural, and for fome time after continues to be fo; but the fymptoms have feldom fubfifted long before the pulfe becomes frequent, and fometimes to a confiderable degree, without much of the other fymptoms of fever. At length, however, evening exacerbations become remarkable; and by degrees the fever affumes the exquifite form of hectic, as defcribed in DCCCLVIII—DCCCLX.

DCCCXCIV.

It is feldom that the cough, expectoration, and fever, go on increasing, in the manner. Vol. 2. I 5 now now defcribed, without fome pain being felt in fome part of the thorax. It is ufually and moft frequently felt at firft under the fternum, and that efpecially, or almost only, upon occafion of coughing : But very often, and that too early, in the course of the difease, a pain is felt on one fide, fometimes very constantly, and so to prevent the person from lying easily upon that fide ; but at other times the pain is felt only upon a full inspiration, or upon coughing. Even when no pain is felt, it generally happens that phthisical persons cannot lie easily on some one of their fides without having their difficulty of breathing increased, and their cough excited.

DCCCXCV.

The phthifis begins, and fometimes proceeds to its fatal isfue, in the manner described from DCCCLXXXIX, to DCCCXCV, without any appearance of hemoptyfis. Such cafes are, indeed, rare ; but it is very common for the difease to advance far, and even to an evident purulency and hectic flate, without any appearance of blood in the fpitting : So that it may be affirmed, the difeafe is frequently not founded in hemoptyfis. At the same time, we must allow, not only that it fometimes begins with an hemoptyfis, as is faid in DCCCLXIV; but furthur, that it feldom happens that in the progrefs of the difease more or less of an hemoptyfis does not appear.

190

appear. Some degree of bloodspitting does, indeed, appear sometimes in the state mentioned DCCCLXXXIX, DCCCXCIII, but more commonly in the more advanced stages of the disease only, and particularly upon the first appearance of purulency. However this may be, it is feldom, in the phthis from tubercles, that the hemoptysis is considerable, or requires any remedies different from those which are otherwise necessary for the state of the tubercles.

DCCCXCVI.

I have now defcribed a fucceffion of fymptoms which, in different cafes, occupy more or lefs time. In this climate they very often take up fome years, the fymptoms appearing especially in the winter and fpring; commonly becoming easier, and sometimes almost difappearing, during the fummer: But returning again in winter, they at length, after two or three years, prove fatal, towards the end of fpring or beginning of fummer.

DCCCXCVII.

In this difease, the prognosis is for the most part unfavourable. Of those affected with it, the greater number die; but there are also many of them who recover entirely, after having been in very unpromising circumftances. What are, however, the circum-I 6 ftances

PRACTICE

192

flances more certainly determining to a happy or to a fatal event, I have not yet been able to afcertain.

DCCCXCVIII.

The following aphorifms are the refult of my obfervations.

A phthifis pulmonalis from hemoptyfis, is more frequently recovered than one from tubercles.

An hemoptyfis not only is not always followed by a phthifis, as we have faid above (DCCCLXIV); but even when followed by an ulceration, the ulceration is fometimes attended with little of hectic, and frequently admits of being foon healed. Even when the hemoptyfis and ulceration have happened to be repeated, there are inflances of perfons recovering entirely after feveral fuch repetitions.

A phthifis from a fuppuration in confequence of pneumonic inflammation, is that which moft rarely occurs in this climate; and a phthifis does not always follow fuch fuppuration, when the abfcels formed foon breaks and difcharges a laudable pus : But, if the abfcels continue long flut up, and till after a confiderable degree of hectic has been formed, a phthifis is then produced, equally dangerous as that from other caufes.

A phthifis from tubercles has, I think, been recovered : But it is of all others the moft dangerous; dangerous; and, when arifing from a hereditary taint, is almost certainly fatal.

The danger of a phthifis, from whatever caufe it may have arifen, is most certainly to be judged of by the degree to which the hectic and its confequences have arrived. From a certain degree of emaciation, debility, profule fweating, and diarrhœa, no perfon recovers.

A mania coming on, has been found to remove all the fymptoms, and fometimes has entirely cured the difeafe; but, in other cafes, upon the going off of the mania, the phthifis has recurred, and proved fatal.

The pregnancy of women has often retarded the progrefs of a phthifis ; but commonly it is only till after delivery, when the fymptoms of phthifis return with violence, and foon prove fatal.

SECT. II.

Of the CURE of PHTHISIS.

DCCCXCIX.

FROM what has been just now faid, it will readily appear, that the cure of the phthifis pulmonalis must be exceedingly difficult; and that even the utmost care and attention in the employment employment of remedies have feldom fucceeded. It may be doubtful whether this failure is to be imputed to the imperfection of our art, or to the abfolutely incurable nature of the difeafe. I am extremely averfe in any cafe to admit of the latter fuppofition, and can always readily allow of the former; but, in the mean time, must mention here what has been attempted towards either curing or moderating the violence of this difeafe.

DCCCC.

It must be obvious, that, according to the different circumstances of this difease, the method of cure must be different. Our first attention should be employed in watching the approach of the difease, and preventing its proceeding to an incurable state.

In all perfons of a phthifical habit, and efpecially in those born of phthifical parents, the flightest fymptoms of the approach of phthifis, at the phthifical period of life, ought to be attended to.

DCCCCI.

When an hemoptyfis occurs, though it be not always followed with ulceration and phthifis, thefe, however, are always to be apprehended; and every precaution is to be taken against them. This is especially to be done by employing every means of moderating

OF PHYSIC.

ing the hemorrhagy, and of preventing its return, directed in DCCCXCII, et feq. and these precautions ought to be continued for several years after the occurrence of the hemoptysis.

DCCCCII.

The phthifis which follows a fuppuration from pneumonic inflammation, can only be prevented with certainty, by obtaining a refolution of fuch inflammation. What may be attempted towards the cure of an abfcefs and ulcer which have taken place, I fhall fpeak of hereafter.

DCCCCIII.

I have faid, it is doubtful if a genuine catarrh ever produces a phthifis ; but have allowed that it poffibly may; and both upon this account, and upon account of the ambiguity which may arife, whether the appearing catarrh be a primary difeafe, or the effect of a tubercle, I confider it as of consequence to cure a catarrh as foon as poffible after its first appearance. More especially when it shall linger, and continue for fome time, or shall, after fome intermiffion, frequently return, the cure of it fhould be diligently attempted. The measures requisite for this purpose shall be mentioned afterwards, when we come to treat of catarrh as a primary difease ; but, in the

195

the mean time, the means neceffary for preventing its producing a phthifis fhall be mentioned immediately, as they are the fame with thofe I fhall point out as neceffary for preventing a phthifis from tubercles.

DCCCCIV.

The preventing of a phthifis from afthma muft be, by curing, if poffible, the afthma; or at leaft by moderating it as much as may be done; and as it is probable that afthma occafions phthifis, by producing tubercles, the meafures neceffary for preventing phthifis from afthma, will be the fame with thole neceffary in the cafe of tubercles, which I am now about to mention.

DCCCCV.

I confider tubercles as by much the moft frequent caufe of phthifis; and even in many cafes where this feems to depend upon hemoptyfis, catarrh, or afthma, it does however truly arife from tubercles. It is upon this fubject, therefore, that I fhall have occasion to treat of the measures most commonly requifite for curing phthifis.

DCCCCVI.

When, in a perfon born of phthifical parents, of a phthifical habit, at the phthifical period period of life, the fymptoms DCCCLXXXIX, in the fpring, or beginning of fummer, fhall appear in the flighteft degree, we may prefume that a tubercle, or tubercles, either have been formed, or are forming in the lungs; and therefore, that every means we can devife for preventing their formation, or for procuring their refolution, fhould be employed immediately, even although the patient himfelf fhould overlook or neglect the fymptoms, as imputing them to accidental cold.

DCCCCVII.

This is certainly the general indication; but how it may be executed I cannot readily fay. I do not know that, at any time, phyficians have proposed any remedy capable of preventing the formation of tubercles, or of refolving them when formed. The analogy of scrophula, gives no affistance in this matter. In fcrophula the remedies that are feemingly of most power are, sea water, or certain mineral waters ; but these have generally proved hurtful in the cafe of tubercles of the lungs. I have known feveral inftances of mercury very fully employed for certain difeafes, in perfons who were fuppofed at the time to have tubercles formed, or forming, in their lungs; but though the mercury proved a cure for those other difeases, it was of no fervice in preventing phthifis, and in fome cafes feemed to hurry it on.

DCCCCVIII.

DCCCCVIII.

Such appears to me to be the prefent flate of our art, with respect to the cure of tubercles; but I do not defpair of a remedy for the purpose being found hereafter. In the mean time, all that at prefent feems to be within the reach of our art, is to take the measures proper for avoiding the inflammation of tubercles. It is probable that tubercles may fubfift long without producing any diforder; and I am disposed to think, that nature sometimes refolves and difcuffes tubercles which have been formed; but that nature does this only when the tubercles remain in an uninflamed state; and therefore, that the measures neceffary to be taken are chiefly those for avoiding the inflammation of the tubercles.

DCCCCIX.

The inflammation of a tubercle of the lungs is to be avoided upon the general plan of avoiding inflammation, by bloodletting, and by an antiphlogiflic regimen; the chief part of which, in this cafe, is the ufe of a low diet. This fuppofes a total abftinence from animal food, and the ufing of vegetable food almost alone; but it has been found, that it is not neceffary for the patient to be confined to vegetables of the weakest nourifhment, it being

OF PHYSIC.

199

ing fufficient that the farinacea be employed, and together with thefe, milk.

DCCCCX.

Milk has been generally confidered as the chief remedy in phthifis, and in the cafe of every tendency to it; but whether from its peculiar qualities, or from its being of a lower quality, with refpect to nourifhment, than any food entirely animal, is not certainly determined. The choice and administration of milk will be properly directed, by confidering the nature of the milk of the feveral animals from which it may be taken, and the particular state of the patient with refpect to the period and circumstances of the discafe, and to the habits of his stomach with refpect to milk.

DCCCCXI.

A fecond means of preventing the inflammation of the tubercles of the lungs, is, by avoiding any particular irritation of the affected part, which may arife from any violent exercife of refpiration; from any confiderable degree of bodily exercife; from any pofition of the body which ftraitens the capacity of the thorax; and, laftly, from cold applied to the furface of the body, which determines the blood in greater quantity to the internal parts, and particularly to the lungs.

DCCCCXII.

200

DCCCCXII.

From the laft mentioned confideration, the application of cold in general, and therefore the winter feafon, in cold climates, as diminifhing the cutaneous perfpiration, is to be avoided ; but more particularly, that application of cold is to be fhunned that may fupprefs perfpiration, to the degree of occafioning a catarrh, which confifts in an inflammatory determination to the lungs, and may therefore moft certainly produce an inflammation of the tubercles there.

By confidering, that the avoiding heat is a part of the antiphlogiftic regimen above recommended, and by comparing this with what has been juft now faid refpecting the avoiding cold, the proper choice of climates and feafons for phthifical patients will be readily underftood.

DCCCCXIII.

A third means of avoiding the inflammation of the tubercles of the lungs confifts, in diminifhing the determination of the blood to. the lungs, by fupporting and increasing the determination to the furface of the body; which is to be chiefly and most fafely done by warm clothing, and the frequent use of the exercises of gestation.

DCCCCXIV.

Every mode of geftation has been found of ufe in phthifical cafes ; but riding on horfeback, as being accompanied with a great deal of bodily exercife, is lefs fafe in perfons liable to an hemoptyfis. Travelling in a carriage, unlefs upon very fmooth roads, may alfo be of doubtful effect ; and all the modes of geftation that are employed on land, may fall fhort of the effects expected from them, becaufe they cannot be rendered fufficiently conftant : And therefore it is that failing, of all other modes of geftation, is the moft effectual in pneumonic cafes, as being both the fmootheft and moft conftant.

It has been imagined, that fome benefit is derived from the flate of the atmosphere upon the fea : But I cannot find that any impregnation of this which can be fuppofed to take place, can be of fervice to phthifical perfons. It is however probable, that frequently fome benefit may be derived from the more moderate temperature and greater purity of the air upon the fea.

DCCCCXV.

In order to take off any inflammatory determination of the blood into the veffels of the lungs, blifters applied to fome part of the thorax may often be of fervice; and for the fame fame purpofe, as well as for moderating the general inflammatory flate of the body, iffues of various kinds may be employed with advantage.

DCCCCXVI.

The feveral meafures to be purfued in the cafe of what is properly called an Incipient Phthifis, have now been mentioned ; but they have feldom been employed in fuch cafes in due time, and have therefore, perhaps, feldom proved effectual. It has more commonly happened, that after fome time, an inflammation has come upon the tubercle, and an abfcefs has been formed, which opening into the cavity of the bronchiæ, has produced an ulcer, and a confirmed phthifis.

DCCCCXVII.

In this flate of matters, fome new indications different from the former may be fuppoled to arife; and indications for preventing abforption, for preventing the effects of the abforbed matter upon the blood, and for healing the ulcer, have been actually propoled. I cannot find, however, that any of the means propoled for executing these indications, are either probable or have proved effectual. If, upon fome occasions, they have appeared to be useful, it has been probably by answering fome other intention. While While no antidote against the poifon which especially operates here, seems to have been as yet found out, it appears to me, that too great a degree of inflammation has a great share in preventing the healing of the ulcer which occurs; and such inflammation is certainly what has a great share in urging on its fatal confequences. The only practice, therefore, which I can venture to propose, is the fame in the ulcerated as in the crude state of a tubercle; that is, the employment of means for moderating inflammation, which have been already mentioned DCCCCIX et feg.

DCCCCXVIII.

The balfamics, whether natural or artificial, which have been fo commonly advifed in cafes of phthifis, appear to me to have been propofed upon no fufficient grounds, and to have proved commonly hurtful. The refinous and acrid fubftance of myrrh, lately recommended, has not appeared to me to be of any fervice, and in fome cafes to have proved hurtful.

DCCCCXIX.

Mercury, fo often useful in healing ulcers, has been speciously enough proposed in this disease; but whether that it be not adapted to the particular nature of the ulcers of the lungs occurring in phthis, or that it proved hurtful ful becaufe it cannot have effect without exciting fuch an inflammatory flate of the whole fyftem, as, in a hectic flate, muft prove very hurtful, I cannot determine. Upon many trials which I have feen made, it has proved of no fervice, and commonly has appeared to be manifeftly pernicious.

DCCCCXX.

The Peruvian bark has been recommended for feveral purpofes in phthifical cafes; and is faid, upon fome occafions, to have been ufeful: But I have feldom found it to be fo; and as by its tonic power it increafes the phlogiftic diathefis of the fystem, I have frequently found it hurtful. In fome cafes, where the morning remiffions of the fever were confiderable, and the noon exacerbations well marked, I have obferved the Peruvian bark given in large quantities, have the effect of stopping these exacerbations, and at the fame time of relieving the whole of the phthifical fymptoms; but in the cafes in which I observed this, the fever showed a constant tendency to recur ; and at length the phthifical fymptoms alfo returned, and proved quickly fatal.

DCCCCXXI.

Acids of all kinds, as antifeptic and refrigerant, are uleful in cafes of phthifis; but the native

204

OFPHYSIC.

205

native acid of vegetables is more uleful than the foffil acids, as it can be given in much larger quantities and may alfo be given more fafely than vinegar, being lefs liable to excite coughing.

DCCCCXXII.

Though our art can do fo little towards the cure of this difeafe, we muft, however, palliate the uneafy fymptoms of it as well as we can. The fymptoms efpecially urgent, are the cough and diarrhœa. The cough may be in fome meafure relieved by demulcents (DCCCLXXIII): But the relief obtained by thefe is imperfect and transitory; and very often the ftomach is difturbed by the quantity of oily, mucilaginous, and fweet fubftances, which are on thefe occasions taken into it.

DCCCCXXIII.

The only certain means of relieving the cough, is by employing opiates. Thefe, indeed, certainly increafe the phlogiftic diathefis of the fyftem; but commonly they do not fo much harm in this way, as they do fervice by quieting the cough, and giving fleep. They are fuppofed to be hurtful by checking expectoration : But they do it for a flort time only; and, after a found fleep, the expectoration in the morning is more eafy than ufual. In the advanced flate of the difeafe, opiates Vol. II. K feem 206

feem to increafe the fweatings that occur ; but they compenfate this, by the eafe they afford in a difeafe which cannot be cured.

DCCCCXXIV.

The diarrhœa which happens in the advanced flate of this difeafe, is to be palliated by moderate aftringents, mucilages, and opiates.

Rhubarb, fo commonly prefcribed in every diarrhœa, and all other purgatives, are extremely dangerous in the colliquative diarrhœa of hectics.

Fresh subacid fruits, supposed to be always laxative, are often, in the diarrhœa of hectics, by their antiseptic quality, very useful.

CHAP.

OF PHYSIC. 207

CHAP. V.

OF THE HEMORRHOIS; OR OF THE HEMORRHOIDAL SWELLING AND FLUX.

SECT. I.

Of the PHENOMENA and CAUSES of the HEMORRHOIS.

DCCCCXXV.

A DISCHARGE of blood from fmall tumours on the verge of the anus, is the fymptom which generally conflitutes the Hemorrhois ; or, as it is vulgarly called, the Hemorrhoidal Flux. But a difcharge of blood from within the anus, when the blood is of a florid colour, flowing it to have come from no great diftance, is alfo confidered as the fame difeafe ; and phyficians have agreed in making two cafes or varieties of it, under K 2

PRACTICE

the names of External and Internal Hemorrhois.

208

DCCCCXXVI.

In both cafes it is fuppofed that the flow of blood is from tumours previoufly formed, which are named Hemorrhoids, or Piles ; and it frequently happens, that the tumours exift without any difcharge of blood ; in which cafe, however, they are fuppofed to be a part of the fame difeafe, and are named Hemorrhoides Cæcæ, or Blind Piles.

DCCCCXXVII.

Thefe tumours, as they appear without the anus, are fometimes feparate, round, and prominent, on the verge of the anus; but frequently the tumour is only one tumid ring, forming, as it were, the anus pufhed without the body.

DCCCCXXVIII.

These tumours, and the discharge of blood from them, sometimes come on as an affection purely topical, and without any previous disorder in other parts of the body; but it frequently happens, even before the tumours are formed, and more especially before the blood flows, that various disorders are felt in different parts of the body, as headach, verti-

go,

go, flupor, difficulty of breathing, ficknefs, colic pains, pain of the back and loins; and often, together with more or fewer of these fymptoms, there occurs a confiderable degree of pyrexia.

The coming on of the difease with these fymptoms, is usually attended with a sense of fullness, heat, itching, and pain in and about the anus.

Sometimes the difeafe is preceded by a difcharge of ferous matter from the anus; and fometimes this ferous difcharge, accompanied with fome fwelling, feems to be in place of the difcharge of blood, and to relieve thofe diforders of the fyftem which we have mentioned. This ferous difcharge, therefore, has been named the Hemorrhois Alba.

DCCCCXXIX.

In the hemorrhois, the quantity of blood difcharged is different upon different occafions. Sometimes the blood flows only upon the perfon's going to flool; and commonly in larger or leffer quantity, follows the difcharge of the fæces. In other cafes, the blood flows without any difcharge of fæces; and then, generally, it is after having been preceded by the diforders abovementioned, when it is alfo commonly in larger quantity. This difcharge of blood is often very confiderable; and, by the repetition, it is often fo great, as we could hardly fuppofe the body to bear but with the K 3 hazard hazard of life. Indeed, though rarely, it has been fo great as to prove fuddenly fatal. Thefe confiderable difcharges occur efpecially to perfons who have been frequently liable to the difeafe. They often induce great debility; and frequently a leucophlegmatia, or dropfy, which proves fatal.

The tumours and discharges of blood in this disease, often recur at exactly stated periods.

DCCCCXXX.

It often happens, in the decline of life, that the hemorrhoidal flux, formerly frequent, ceafes to flow; and, upon that event, it generally happens that the perfons are affected with apoplexy or palfy.

DCCCCXXXI.

Sometimes hemorrhoidal tumours are affected with confiderable inflammation ; which, ending in fuppuration, gives occasion to the formation of fiftulous ulcers in those parts.

DCCCCXXXII.

The hemorrhoidal tumours have been often confidered as varicous tumours, or dilatations of veins; and it is true, that in fome cafes varicous dilatations have appeared upon diffection. Thefe, however, do not always appear; and

210

and I prefume it is not the ordinary cafe, but that the tumours are formed by an effusion of blood into the cellular texture of the intestine near to its extremity. These tumours, efpecially when recently formed, frequently contain fluid blood; but, after they have remained for fome time, they are commonly of a firmer fubftance.

DCCCCXXXIII.

From a confideration of their causes, to be hereafter mentioned, it is fufficiently probable, that hemorrhoidal tumours are produced by fome interruption of the free return of blood from the veins of the lower extremity of the rectum ; and it is possible, that a confiderable accumulation of blood in these veins, may occasion a rupture of their extremities, and thus produce the hemorrhagy or tumours I have mentioned. But, confidering that the hemorrhagy occurring here, is often preceded by pain, inflammation, and a febrile state, as well as by many other fymptoms which fhow a connexion between the topical affection and the state of the whole fystem, it feems probable that the interruption of the venous blood, which we have supposed to take place, operates in the manner explained in DCCLXIX; and therefore, that the discharge of blood here is commonly from arteries.

211

DCCCCXXXIV.

Some phyficians have been of opinion, that a difference in the nature of the hemorrhois, and of its effects upon the fyftem, might arife from the difference of the hemorrhoidal veffels from which the blood iffued. But it appears to me, that hardly in any cafe we can diftinguish the veffels from which the blood flows; and that the frequent inosculations of both the arteries and veins which belong to the lower extremity of the rectum, will render the effects of the hemorrhagy nearly the fame, from whichfoever of these veffels the blood proceed.

DCCCCXXXV.

In DCCLXIX, I have endeavoured to explain the manner in which a certain flate of the fanguiferous fyftem might give occafion to an hemorrhoidal flux; and I have no doubt, that this flux may be produced in that manner. I cannot, however, by any means admit, that the difeafe is fo often produced in that manner, or that, on its firft appearance, it is fo frequently a fyftematic affection, as the Stahlians have imagined, and would have us to believe. It occurs in many perfons before the period of life at which the venous plethora takes place; it happens to females, in whom a venous plethora, determined to the hemorrhoidal hemorrhoidal veffels, cannot be fuppofed ; and it happens to both fexes, and to perfons of all ages, from caufes which do not affect the fyftem, and are manifeftly fuited to produce a topical affection only.

DCCCCXXXVI.

These causes of a topical affection are, in the first place, the frequent voiding of hard and bulky fæces, which, not only by their long stagnation in the rectum, but especially when voided, must press upon the veins of the anus, and interrupt the course of the blood in them. It is for this reason that the disease happens for often to perfons of a flow and bound belly.

DCCCCXXXVII.

From the caufes just now mentioned, the difease happens especially to perfons liable to fome degree of a prolapfus ani. Almost every perfon in voiding fæces has the internal coat of the rectum more or lefs protruded without the body ; and this will be to a greater or leffer degree, according as the hardnefs and bulk of the fæces occafion a greater or leffer effort or preffure upon the anus. While the gut is thus pushed out, it often happens, that the fphincter ani is contracted before the gut is replaced ; and, in confequence thereof, a ftrong constriction is made, which preventing. the fallen out gut from being replaced, and at. Vol. 2. K 5 the

214

the fame time preventing the return of blood from it, occafions its being confiderably fwelled, and its forming a tumid ring round the anus.

DCCCCXXXVIII.

Upon the fphincter's being a little relaxed, as it is immediately after its flrong contraction, the fallen out portion of the gut is commonly again taken within the body ; but, by the frequent repetition of fuch an accident, the fize and fullnefs of the ring formed by the fallen out gut, is much increafed. It is therefore more flowly and difficultly replaced ; and in this confifts the chief uneafinefs of hemorrhoidal perfons.

DCCCCXXXIX.

As the internal edge of the ring mentioned, is neceffarily divided by clefts, the whole often affumes the appearance of a number of diftinct fwellings; and it alfo frequently happens, that fome portions of it, more confiderably fwelled than others, become more protuberant, and form those fmall tumours more ftrictly called Hemorrhoids, or Piles.

DCCCCXL.

From confidering that the preffure of fæces, and other caufes interrupting the return of venous

OFPHYSIC. 215

venous blood from the lower extremity of the rectum, may operate a good deal higher up in: the gut than that extremity, it may be eafily underftood that tumours may be formed. within the anus; and probably it alfo happens, that fome of the tumours formed without the anus, as in DCCCCXXXIX, may continue when taken within the body, and even be increased by the causes just now mentioned. It is thus that I would explain the: production of internal piles, which, on account: of their fituation and bulk, are not protruded on the person's going to ftool, and are often, therefore, more painful. The fame internal piles are more especially painful, when affected by the hemorrhagic effort described in DCCXLV and DCCLXIX.

DCCCCXLI.

The production of piles is particularly illuftrated by this, that pregnant women are frequently affected with them. This is to be accounted for partly from the preffure of the uterus upon the rectum, and partly from the coftive habit to which pregnant women are ufually liable. I have known many inftances of piles occurring for the first time during the flate of pregnancy ; and there are few women that have born children who are afterwards entirely free from piles. The Stahlians have commonly afferted, that the male fex is more frequently affected with this K 6

216 PRACTICE

difeafe than the female; but in this country I have conftantly found it otherwife.

DCCCCXLII.

It is commonly fuppofed, that the frequent use of purgatives, especially of those of the more acrid kind, and more particularly of aloctics, is apt to produce the hemorrhoidal affection; and as these purgatives stimulate chiefly the great guts, it seems sufficiently probable that they may excite this difease.

DCCCCXLIII.

I have now mentioned feveral caufes which may produce the hemorrhoidal tumours and flux as a topical affection only ; but muft obferve farther, that although the difeafe appears firft as a purely topical affection, it may, by frequent repetition, become habitual ; and therefore may become connected with the whole fyftem, in the manner already explaincd, with refpect to hemorrhagy in general, in DCCXLVIII.

DCCCCXLIV.

The doctrine now referred to will, it is apprehended, apply very fully to the cafe of the hemorrhoidal flux; and will the more readily apply, from the perfon who has been once affected being much exposed to a renewal

OF PHYSIC. 217

newal of the caufes which first occasioned the difease; and from many persons being much exposed to a congession in the hemorrhoidal vessels, in confequence of their being often in an erect position of the body, and in an exercise which pusses the blood into the depending vessels, while at the same time the effects of these circumstances are much favoured by the abundance and laxity of the cellular texture about the rectum.

DCCCCXLV.

It is thus that the hemorrhoidal flux is fo often artificially rendered an habitual and fyftematic affection ; and I am perfuaded, that it is this which has given occasion to the Stahlians to confider the difease as almost universally fuch.

DCCCCXLVI.

It is to be particularly observed here, that when the hemorrhoidal diseafe has either been originally, or has become, in the manner just now explained, a systematic affection, it then acquires a particular connexion with the ftomach, so that certain affections there excite the hemorrhoidal disease, and certain states of the hemorrhoidal affection excite disorders of the ftomach. 218

It is perhaps owing to this connexion that the gout fometimes affects the rectum. See DXXV.

SECT. II.

Of the CURE of HEMORRHOIDAL AFFEC-TIONS.

DCCCCXLVII.

ALMOST at all times it has been an opinion amongst physicians, and from them spread amongst the people, that the hemorrhoidal flux is a falutary evacuation which prevents many difeases that would otherwise have happened; and that it even contributes to give long life. This opinion, in later times, has been especially maintained by Dr. Stahl and his followers; and has had a great deal of influence upon the practice of physic in Germany.

DCCCCXLVIII.

The queftion arifes with refpect to hemorrhagy in general, and indeed it has been extended fo far by the Stahlians. I have accordingly confidered it as a general queftion, (DCCLXVII-DCCLXXX); but it has been

OF PHYSIC.

been more especially agitated with regard to the difease now under our confideration : And as to this, although I am clearly of opinion, that the hemorrhois may take place in confequence of the general state of the fystem (DCCLXIX); or, what is still more frequent, that by repetition it may become connected with that general flate (DCCCCXLIII), and in either cafe cannot be fuppreffed without great caution ; I must beg leave, notwithstanding this, to maintain, that the first is a rare cafe, that generally the difeafe first appears as an affection purely topical (DCCCCXXXV, DCCCCXLII), and that the allowing it to become habitual is never proper. It is a nafty difagreeable difeafe, ready to go to excefs, and to be thereby very hurtful, as well as fometimes fatal. At beft it is liable to accidents, and thereby to unhappy confequences. I am therefore of opinion, that not only the first approaches of the difease are to be guarded against; but even that when it has taken place for fome time, from whatever caufe it may have proceeded, the flux is always to be moderated, and the neceffity of it, if poffible, fuperseded.

DCCCCXLIX.

Having delivered these general rules, I proceed to mention more particularly, how the discase is to be treated, according to the different different circumstances under which it may appear.

220

When we can manifeftly difcern the first appearance of the difease to arise from causes acting upon the part only, the strictest attention should be employed in guarding against the renewal of these causes.

DCCCCL.

One of the moft frequent of the remote caufes of the hemorrhoidal affection, is a flow and bound belly, (DCCCCXXXVI): And this is to be conftantly obviated by a proper diet, which each individual's own experience must direct; or, if the management of diet be not effectual, the belly must be kept regular by fuch medicines as may prove gently laxative, without irritating the rectum. In most cafes it will be of advantage to acquire a habit with respect to time, and to observe it exactly.

DCCCCLI.

Another caufe of hemorrhois to be efpecially attended to, is the prolapfus or protrufion of the anus, which is apt to happen on a perfon's having a flool (DCCCCXXXVII.) If it fhall occur to any confiderable degree, and at the fame time be not eafily and immediately replaced, it most certainly produces piles, or increases them when otherwise produced. uced. Perfons therefore liable to this propfus, fhould, upon their having been at ftool, ake great pains to have the gut immediately eplaced, by lying down in a horizontal pofure, and preffing gently upon the anus, till he reduction fhall be completely obtained.

DCCCCLII.

When the prolapfus of which I fpeak is occafioned only by voiding hard and bulky acces, it fhould be obviated by the means nentioned in DCCCCL, and may be thereby voided. But in fome perfons it is owing to a laxity of the rectum; in which cafe it is often most confiderable upon occasion of a loofe stool; and then the difease is to be treated by aftringents, as well as by proper artifices for preventing the falling down of the gut.

DCCCCLIII.

Thefe are the means to be employed upon the first approaches of the hemorrhoidal affection; and when from neglect it shall have frequently recurred, and has become in some measure established, they are no less proper. In the latter case, however, some other means are also necessary. It is particularly proper to guard against a plethoric state of the body; consequently, to avoid a sedentary life, a sull diet, and particularly intemperance in the use of 222

of ftrong liquor; which, as I fhould have obferved before, is, in all cafes of hemorrhagy, of the greatest influence in increasing the difposition to the difease.

DCCCCLIV.

I need hardly repeat here, that exercise of all kinds must be a chief means of obviating and removing a plethoric state of the body; but upon occasion of the hemorrhoidal flux immediately approaching, both walking and riding, as increasing the determination of the blood into the hemorrhoidal vessels, are to be avoided. At other times, when no such determination has been already formed, those modes of exercise may be very properly employed.

DCCCCLV.

Cold bathing is another remedy that may be employed to obviate plethora, and prevent hemorrhagy; but it is to be used with caution. When the hemorrhoidal flux is approaching, it may be dangerous to turn it fuddenly aside by cold bathing : But during the intervals of the disease, this remedy may be employed with advantage; and in persons liable to a prolapsus ani, the frequent washing of the anus with cold water may be very useful.

DCCCCLVI.

DCCCCLVI.

Thefe are the means for preventing the recurrence of the hemorrhoidal flux; and in all cafes, when it is not immediately approaching, they are to be employed. When it has actually come on, means are to be employed for moderating it as much as poffible, by the perfons lying in a horizontal polition upon a hard bed; by avoiding exercise in an erect pofture ; by using a cool diet ; by avoiding external heat; and by obviating the irritation of hardened fæces by the use of proper laxatives, (DCCCCL). From what has been faid above, as to the being careful not to increafe the determination of the blood into the hemorrhoidal veffels, the propriety of these measures must fufficiently appear; and if they were not fo generally neglected, many perfons would escape the great trouble, and the various bad confequences which fo frequently refult from this difease.

DCCCCLVII.

With refpect to the further cure of this difeafe, it is almost in two cafes only, that hemorrhoidal perfons call for the affiftance of the physician. The one is when the affection is accompanied with much pain ; and of this there are two cafes, according as the pain happens

224 PRACTICE

happens to attend the external or the internal piles.

DCCCCLVIII.

The pain of the external piles arifes effecially when a confiderable protrufion of the rectum has happened; and when, continuing unreduced, it is ftrangled by the conftriction of the fphincter; while, at the fame time, no bleeding happens, to take off the fwelling of the protruded portion of the inteffine. Sometimes an inflammation fupervenes, and greatly aggravates the pain. To relieve the pain in this cafe, emollient fomentations and poultices are fometimes of fervice; but a more effectual relief is to be obtained by applying leeches to the tumid parts.

DCCCCLIX.

The other cafe in which hemorrhoidal perfons feek affiftance, is that of exceffive bleeding. Upon the opinion fo generally received of this difcharge being falutary, and from the obfervation that upon the difcharge occurring perfons have fometimes found relief from various diforders, the most part of perfons liable to it are ready to let it go too far; and indeed the Stahlians will not allow it to be a difeafe, unlefs when it has actually gone to excefs. I am, however, well perfuaded, that this flux ought always to be cured as foon as possible. DCCCCLX.

225

DCCCCLX.

When the difeafe occurs as a purely topical affection, there can be no doubt of the propriety of this rule ; and, even when it has occurred as a critical difcharge in the cafe of a particular difeafe, yet when this difeafe fhall have been entirely cured and removed, the preventing any return of the hemorrhois feems to be both fafe and proper.

DCCCCLXI.

It is only when the difease arises from a plethoric state of the body, and from a stagnation of blood in the hypochondriac region; or when, though originally topical, the difeafe, by frequent repetition, has become habitual, and has thereby acquired a connexion with the whole system, that any doubt can arife as to the fafety of curing it entirely. Even in thefe cafes, however, I apprehend it will be always proper to moderate the bleeding; left by its continuance or repetition, the plethoric state of the body, and the particular determination of the blood into the hemorrhoidal veffels, be increased, and the recurrence of the disease, with all its inconveniences and danger, be too much favoured.

226

DCCCCLXII.

Further, even in the cafes flated (DCCCCLXI), in fo far as the plethoric flate of the body, and the tendency to that flate, can be obviated and removed, this is always to be diligently attempted ; and if it can be executed with fuccefs, the flux may be entirely fuppreffed.

DCCCCLXIII.

The Stahlian opinion, that the hemorrhoidal flux is only in excefs when it occafions great debility, or a leucophlegmatia, is by no means juft; and it appears to me, that the fmalleft approach towards *producing* either of thefe, fhould be confidered as an excefs, which ought to be prevented from going farther.

DCCCCLXIV.

In all cafes therefore of excefs, or of any approach towards it, and particularly when the difeafe depends upon a prolapfus ani (DCCCCLI), I am of opinion that aftringents, both internal and external, may be fafely and properly employed ; not indeed to induce an immediate and total fuppreffion, but to moderate the hemorrhagy, and by degrees to fupprefs it altogether, while at the fame time meafures

OF PHYSIC.

meafures are taken for removing the neceffity of its recurrence.

DCCCCLXV.

When the circumftances (DCCCCXLVI) marking a connexion between the hemorrhoidal affection and the flate of the flomach occur, the measures necessary are the fame as in the case of atonic gout.

Bour or soft molitor to more to mode

same a sale any

write ar the fame thing

CHAP.

227

228 PRACTICE

CHAP. VI.

OF THE MENORRHAGIA, OR THE IMMODERATE FLOW OF THE MENSES.

DCCCCLXVI.

BLOOD discharged from the vagina may proceed from different sources in the internal parts: But I here mean to treat of those discharges only, in which the blood may be prefumed to flow from the fame sources that the menses in their natural state proceed from; and which discharges alone, are those properly comprehended under the prefent title. The title of Metrorrhagia, or hæmorrhagia uteri, might comprehend a great deal more.

DCCCCLXVII.

The menorrhagia may be confidered as of two kinds; either as it happens to pregnant and lying in women, or as it happens to women neither pregnant nor having recently born children. The first kind, as connected with

OF PHYSIC.

with the circumftances of pregnancy and childbearing, (which are not to be treated of in the prefent courfe), I am not to confider here, but fhall confine myfelf to the fecond kind of menorrhagia only.

DCCCCLXVIII.

The flow of the menfes is confidered as immoderate, when it recurs more frequently, when it continues longer, or when, during the ordinary continuance, it is more abundant than is usual with the fame perfon at other times.

DCCCCLXIX.

As the most part of women are liable to fome inequality with refpect to the period, the duration, and the quantity of their menfes; fo it is not every inequality in these respects that is to be confidered as a disease; but only those deviations, which are excessive in degree, which are permanent, and which induce a manifest state of debility.

DCCCCLXX.

The circumftances (DCCCCLXVIII, DCCCCLXIX) are those which chiefly conflitute the menorrhagia : But it is proper to observe, that although I allow the frequency, duration, and quantity of the menses to be Vol. II. L judged judged of by what is ufual with the fame individual at other times ; yet there is, in thefe particulars, fo much uniformity obfervable in the whole of the fex, that in any individual in whom there occurs a confiderable deviation from the common meafure, fuch a deviation, if conftantly recurring, may be confidered as at leaft approaching to a morbid flate, and as requiring moft of the precautions which I fhall hereafter mention as neceffary to be attended to by thofe who are actually in fuch a flate.

DCCCCLXXI.

However we may determine with refpect to the circumftances DCCCCLXVIII, DCCCCLXIX, it must still be allowed, that the immoderate flow of the menses is especially to be determined by those structures affecting other functions of the body, which accompany and follow the discharge.

When a larger flow than usual of the menses has been preceded by headach, giddiness, or dyspnœa, and has been ushered in by a cold stage, and is attended with much pain of the back and loins, with a frequent pulse, heat, and thirst, it may then be considered as preternaturally large.

DCCCCLXXII.

When, in confequence of the circumstances DCCCCLXVIII-DCCCCLXXI, and

OFPHYSIC. *231

and the repetition of thefe, the face becomes pale; the pulfe grows weak; an unufual debility is felt in exercife; the breathing is hurried by moderate exercife; when, alfo, the back becomes pained from any continuance in an erect pofture; when the extremities become frequently cold; and when in the evening the feet appear affected with œdematous fwelling; we may from thefe fymptoms certainly conclude, that the flow of the menfes has been immoderate, and has already induced a dangerous ftate of debility.

DCCCCLXXIII.

The debility thus induced, does often difcover itfelf alfo by affections of the ftomach, as anorexia and other fymptoms of dyfpepfia; by a palpitation of the heart, and frequent faintings; by a weaknefs of mind liable to ftrong emotions from flight caufes, efpecially when fuddenly prefented.

DCCCCLXXIV.

11 ant Bergalite

That flow of the menfes, which is attended with barrennefs in married women, may be generally confidered as immoderate and morbid.

DCCCCLXXV.

PRACTICE DCCCCLXXV.

232

Generally, alfo, that flow of the menfes may be confidered as immoderate, which is preceded and followed by a leucorrhœa.

DCCCCLXXVI.

I treat of menorrhagia here as an active hemorrhagy, becaufe I confider menftruation, in its natural flate, to be always of that kind; and although there fhould be cafes of menorrhagia which might be confidered as purely paffive, it appears to me that they cannot be to properly treated of in any other place.

DCCCCLXXVII.

The menorrhagia (DCCCCLXVIII, et feq.) has for its proximate caufe, either the hemorrhagic effort of the uterine veffels preternaturally increased, or a preternatural laxity of the extremities of the uterine arteries, the hemorrhagic effort remaining as in the natural state.

DCCCCLXXVIII.

The remote caufes of the menorrhagia may be, 1*ft*, Thofe which increase the plethoric state of the uterine vessels; such as a full and nourishing diet, much strong liquor, and frequent intoxication. 2*dly*, Those which determine the blood more copiously and forcibly cibly into the uterine veffels; as violent ftrainings of the whole body ; violent shocks of the whole body from falls ; violent ftrokes or contutions on the lower belly; violent exercife, particularly in dancing ; and violent paffions of the mind. 3dly, Those which particularly irritate the veffels of the uterus; as excels in venery ; the exercise of venery in the time of menstruation ; a costive habit, giving occasion to violent firaining at flool ; and cold applied to the feet. 4thly, Those which have forcibly overstrained the extremities of the uterine velfels; as frequent abortions; frequent childbearing without nurfing ; and difficult tedious labours. Or, lastly, Those which induce a general laxity ; as living much in warm chambers, and drinking much of warm enervating liquors, fuch as tea and coffee.

DCCCCLXXIX.

The effects of the menorrhagia are pointed out in DCCCCLXXII, DCCCCLXXIII, where I have mentioned the feveral fymptoms accompanying the difeafe, and from these the consequences to be apprehended will alfo readily appear.

DCCCCLXXX.

The treatment and cure of the menorrhagia must be different, according to the different causes of the difease.

L 3

In

233

In all cafes, the first attention ought to be given to avoiding the remote causes, whenever that can be done; and by that means the difease may be often entirely avoided.

When the remote caufes cannot be avoided, or when the avoiding them has been neglected, and therefore a copious menftruation has come on, it fhould be moderated as much as poffible, by abftaining from all exercife, either at the coming on or during the continuance of the menftruation ; by avoiding even an erect pofture as much as poffible ; by fhunning external heat, and therefore warm chambers and foft beds ; by ufing a light and cool diet ; by taking cold drink, at leaft as far as former habits will allow ; by avoiding venery ; by obviating coftivenefs, or removing it by laxatives that give little flimulus.

The fex are commonly negligent, either in avoiding the remote caules or in moderating the firft beginnings of this difeafe. It is by fuch neglect that it fo frequently becomes violent, and of difficult cure ; and the frequent repetition of a copious menftruation, may be confidered as a caufe of great laxity in the extreme veffels of the uterus.

DCCCCLXXXI.

When the coming on of the menftruation has been preceded by fome diforder in other parts of the body, and is accompanied with pains of the back, refembling parturient pains, together together with febrile fymptoms, and when at the fame time the flow feems to be copious, then a bleeding at the arm may be proper, but it is not often neceffary; and it will in most cafes be fufficient to employ, with great attention and diligence, those means for modcrating the discharge which have been mentioned in the last paragraph.

DCCCCLXXXII.

When the immoderate flow of the menfes shall feem to be owing to a laxity of the velfels of the uterus, as may be concluded from the general debility and laxity of the perfon's habit; from the remote causes that have occafioned the difeafe (DCCCCLXXVIII); from the absence of the symptoms which denote increased action in the veffels of the uterus (DCCCCLXXI); from the frequent recurrence of the difease ; and particularly from this, that in the intervals of menstruation the perfon is liable to a leucorrhœa; then in fuch cafe the difeafe is to be treated, not only by employing all the means mentioned in DCCCCLXXX, for moderating the hemorrhagy, but alfo by avoiding all irritation, every irritation having the greater effect in proportion as the veffels have been more lax and yielding. If, in fuch a cafe of laxity, it shall appear that fome degree of irritation concurs, opiates may be employed to moderate the difcharge ; L4

charge ; but in using these, much caution is requisite.

If, notwithstanding these measures having been taken, the discharge shall prove very large, astringents both external and internal may be employed. In such cases, may small doses of emetics be of service ?

DCCCCLXXXIII.

When the menorrhagia depends on the laxity of the uterine veffels, it will be proper, in the intervals of menftruation, to employ tonic remedies; as cold bathing and chalybeates. The exercifes of geftation, alfo, may be very uleful, both for ftrengthening the whole fyftem, and for taking off the determination of the blood to the internal parts.

DCCCCLXXXIV.

The remedies mentioned in these two last paragraphs, may be employed in all cases of menorrhagia, from whatever cause it may have proceeded, if the disease shall have already induced a considerable degree of debility in the body.

CHAP.

236

OF PHYSIC. 237-

requibte.

been takein wire, abhaharga Maill mider vare CHAP. VII. may be employed, adde fuch when may finall

OF THE LEUCORRHCEA, FLUOR AL--BUS, OR WHITES. sen - bangruinage bage bage and the

ai bearing be the st. doite former and be property in

Creek reation, to wight the of the DCCCCLXXXV. The extent of the work have have have here have here have here

- Dietal Derberter and manuel have the barter

EVERY serous or puriform discharge from the vagina, may be, and has been comprehended under one or other of the appellations I have prefixed to this chapter. Such discharges, however, may be various; and may proceed from various fources, not yet well ascertained; but I confine myself here to treat of that discharge alone which may be prefumed to proceed from the fame veffels, which, in their natural state, pour out the after and still alle. be menses.

DCCCCLXXXVI.

I conclude a discharge from the vagina to be of this kind; 1. From its happening to women who are subject to an immoderate flow of the menses, and liable to this from caufes L 5 VOL. 2.

causes weakening the veffels of the uterus. 2. From its appearing chiefly, and often only, a little before, as well as immediately after, the flow of the menses. 3. From the flow of the menses being diminished, in proportion as the leucorrhœa is increased. 4. From the leucorrhœa continuing after the menses have entirely ceafed, and with fome appearance of its observing a periodical recurrence. 5. From the leucorrhœa being accompanied with the effects of the menorrhagia (DCCCCLXXII, DCCCCLXXIII.) 6. From the difcharge having been neither preceded by, nor accompanied with, fymptoms of any topical affections of the uterus. 7. From the leucorrhœa not having appeared foon after communication with a perfon who might be fuspected of communicating infection, and from the first appearance of the difease not being accompanied with any inflammatory affection of the Brare in bringing on and in stan

DCCCCLXXXVII.

The appearance of the matter difcharged in the leucorrhœa, is very various with refpect to confiftence and colour; but from these appearances, it is not always possible to determine concerning its nature, or the particular fource from whence it proceeds.

DCCCCLXXXVIII.

OF PHYSIC. 239

DCCCCLXXXVIII.

The leucorrhœa, of which I am to treat, as afcertained by the feveral circumflances (DCCCCLXXXVI) feems to proceed from the fame caufes as that fpecies of menorrhagia which I fuppofe to arife from the laxity of the extreme veffels of the uterus. It accordingly often follows or accompanies fuch a menorrhagia ; but though the leucorrhœa depends chiefly upon the laxity mentioned, it may have proceeded from irritations inducing that laxity, and feems to be always increafed by any irritations applied to the uterus.

DCCCCLXXXIX.

Some authors have alleged, that a variety of circumflances in other parts of the body may have a fhare in bringing on and in continuing this affection of the uterus now under confideration ; but I cannot difcover the reality of those causes ; and it seems to me, that this leucorrhœa, excepting in so far as it depends upon a general debility of the softem, is always primarily an affection of the uterus ; and the affections of other parts of the body which may happen to accompany it, are for the most part to be confidered as effects, rather than as causes.

L 6.

DCCCCXC.

DCCCCXC.

The effects of the leucorrhœa are much the fame with those of menorrhagia; inducing a general debility, and in particular, a debility in the functions of the stomach. If, however, the leucorrhœa be moderate, and be not accompanied with any confiderable degree of menorrhagia, it may often continue long without inducing any great degree of debility, and it is only when the discharge has been very copious as well as constant, that its effects in that way are very remarkable.

DCCCCXCI.

But, even when its effects upon the whole body are not very confiderable, it may ftill be fuppofed to weaken the genital fyftem ; and it feems fufficiently probable that this difcharge may often have a fhare in occasioning barrennefs.

DCCCCXCII.

The matter difcharged in the leucorrhœa, is at firft generally mild ; but after fome continuance of the difeafe, it fometimes becomes acrid ; and by irritating, or perhaps eroding, the furfaces over which it paffes, induces various painful diforders.

DCCCCXCIII.

OF PHYSIC. 241

DCCCCXCIII.

As I have fuppofed that the leucorrhœa proceeds from the fame caufes as that fpecies of menorrhagia which is chiefly owing to a laxity of the uterine veffels, it must be treated, and the cure attempted, by the fame means as delivered in DCCCCLXXXII, for the cure of menorrhagia, and with lefs referve in refpect of the ufe of aftringents.

DCCCCXCIV.

As the leucorrhœa generally depends upon a great lofs of tone in the veffels of the uterus, the difeafe has been relieved, and fometimes cured by certain ftimulant medicines, which are commonly determined to the urinary paffages, and from the vicinity of thefe are often communicated to the uterus. Such, for example, are cantharides, turpentine, and other balfams of a fimilar nature.

South Street Streetermes

CHAP.

PRACTICE

242

C H A P. VIII.

OF THE AMENORRHOEA, OR IN-TERRUPTION OF THE MENSTRU-AL FLUX.

DCCCCXCV.

WHATEVER, in a fystem of methodical nosology, may be the fittest place for the amenorrhœa, it cannot be improper to treat of it here as an object of practice, immediately after having confidered the menorrhagia.

DCCCCXCVI.

The interruption of the menftrual flux is to be confidered as of two different kinds; the one being when the menfes do not begin to flow at that period of life at which they ufually appear; and the other being that when, after they have repeatedly taken place for fome time, they do, from other caufes than conception, ceafe to return at their ufual periods: The

OF PHYSIC.

The former of these cases is named the retention, and the latter the *suppression*, of the menses.

DCCCCXCVII.

As the flowing of the menfes depends upon the force of the uterine arteries impelling the blood into their extremities, and opening thefe fo as to pour out red blood; fo the interruption of the menftrual flux muft depend, either upon the want of due force in the action of the uterine arteries, or upon fome preternatural refiftance in their extremities. The former I fuppofe to be the moft ufual caufe of retention, the latter the moft common caufe of fupprefion; and of each of thefe I fhall now treat more particularly.

DCCCCXCVIII.

119171 -7834

The retention of the menfes, the emanfio menfium of Latin writers, is not to be confidered as a difeafe merely from the menfes not flowing at that period which is ufual with moft other women. This period is fo different in different women, that no time can be precifely affigned as proper to the fex in general. In this climate, the menfes ufually appear about the age of fourteen ; but in many they appear more early, and in many not till the fixteenth year ; in which laft cafe it is often without any diforder being thereby occafioned. It is not therefore from the age of the the perfon, that the retention is to be confidered as a difeafe; and it is only to be confidered as fuch, when, about the time the menfes ufually appear, fome diforders arife in other parts of the body which may be imputed to their retention; being fuch as, when arifing at this period, are known from experience to be removed by the flowing of the menfes.

DCCCCXCIX.

Thefe diforders are, a fluggifhnefs and frequent fenfe of laffitude and debility, with various fymptoms of dyfpepfia; and fometimes with a preternatural appetite. At the fame time the face lofes its vivid colour, becomes pale, and fometimes of a yellowifh hue; the whole body becomes pale and flaccid; and the feet, and perhaps alfo a great part of the body, become affected with œdematous fwelling. The breathing is hurried by any quick or laborious motion of the body, and the heart is liable to palpitation and fyncope. A headach fometimes occurs; but more certainly pains of the back, loins, and haunches.

M.

These symptoms, when occurring in a high degree, constitute the *chlorofis* of authors, hardly ever appearing separate from the retention of the menses; and, attending to these symptoms,

244

toms, the caufe of this retention may, I think, be perceived.

These fymptoms manifestly show a confiderable laxity and flaccidity of the whole syftem; and therefore give reason to conclude, that the retention of the menses accompanying them, is owing to a weaker action of the vessels of the uterus; which therefore do not impel the blood into their extremities with a force sufficient to open these, and pour out blood by them.

MI.

How it happens that at a certain period of life a flaccidity of the fyftem arifes in young women not originally affected with any fuch weaknefs or laxity, and of which, but a little time before, they had given no indication, may be difficult to explain; but I would attempt it in this way.

As a certain flate of the ovaria in females, prepares and difpofes them to the exercife of venery, about the very period at which the menfes firft appear, it is to be prefumed that the flate of the ovaria and that of the uterine veffels are in fome meafure connected together ; and as generally fymptoms of a change in the flate of the former appear before those of the latter, it may be inferred, that the flate of the ovaria has a great fhare in exciting the action of the uterine veffels, and producing the menftrual flux. But, analogous to what happens 246

pens in the male fex, it may be prefumed, that in females a certain flate of the genitals is neceffary to give tone and tenfion to the whole fyftem ; and therefore that, if the flimulus arifing from the genitals be wanting, the whole fyftem may fall into a torpid and flaccid flate, and from thence the chlorofis and retention of the menfes may arife.

MII.

It appears to me, therefore, that the retention of the menfes is to be referred to a certain flate or affection of the ovaria : But what is precifely the nature of this affection, or what are the caufes of it, I will not pretend to explain ; nor can I explain in what manner that primary caufe of retention is to be removed. In this, therefore, as in many other cafes, where we cannot affign the proximate caufe of difeafes, our indications of cure muft be formed for obviating and removing the morbid effects or fymptoms which appear.

MIII.

The effects, as has been faid in M, confift in a general flaccidity of the fyftem, and confequently in a weaker action of the veffels of the uterus; fo that this debility may be confidered as the more immediate caufe of the retention. This, therefore, is to be cured by reftoring the tone of the fyftem in general, and

and by exciting the action of the uterine veffels in particular.

- multonia histori MIV.

The tone of the fystem in general is to be restored by exercise, and, in the beginning of the disease, by cold bathing. At the same time, tonic medicines may be employed; and of these the chalybeates have been chiefly recommended.

The action of the veffels of the uterus may be excited :

1ft, By determining the blood into them more copioufly; which is to be done by determining the blood into the defcending aorta, by purging, by the exercife of walking, by friction, and by warm bathing of the lower extremities. It is alfo probable that the blood may be determined more copioufly into the hypogaftric arteries which go to the uterus, by a compression of the iliacs; but the trials of this kind hitherto made have feldom fucceeded.

MVI.

Hanos M makel stord ad

2dly, The action of the uterine veffels may be excited by flimulants applied to them. Thus those purgatives which particularly flimulate the intestinum rectum, may also prove prove stimulant to the uterine veffels connected with those of the rectum. The exercife of venery certainly proves a stimulus to the veffels of the uterus; and therefore may be useful when, with propriety, it can be employed. The various medicines recommended as stimulants of the uterine vessels, under the title of Emmenagogues, have never appeared to me to be effectual; and I cannot perceive that any of them are poffeffed of a fpecific power in this refpect. Mercury, as an universal stimulant, may act upon the uterus, but cannot be very fafely employed in chlorotic perfons. One of the most powerful means of exciting the action of the veffels in every part of the fystem is, the electrical shock; and it has often been employed with fuccels for exciting the veffels of the uterus.

MVII.

The remedies (MIII-MVI) now mentioned, are those adapted to the retention of the menses; and I am next to confider the case of *suppression*. In entering upon this, I must observe, that every interruption of the flux, after it has once taken place, is not to be confidered as a case of suppression. For the flux, upon its first appearance, is not always immediately established in its regular course; and therefore, if an interruption happen son after the first appearance, or even in the course of the first, or perhaps second year after, it may

may often be confidered as a cafe of retention, especially when the difease appears with the symptoms peculiar to that state.

MVIII.

Those which may be properly confidered as cafes of suppression, are such as occur after the flux has been for fome time eftablished in its regular courfe, and in which the interruption cannot be referred to the causes of retention (MII, MIII) but must be imputed to fome refistance in the extremities of the veffels of the uterus. Accordingly, we often find the suppreffion induced by cold, fear, and other caufes which may produce a conftriction of these extreme veffels. Some physicians have supposed an obstructing lentor of the fluids to occasion the refistance now mentioned : But this is purely hypothetical, without any proper evidence of the fact ; and it is befides, from other confiderations, improbable.

MIX.

There are indeed fome cafes of fuppreffion that feem to depend upon a general debility of the fystem, and confequently of the veffels of the uterus. But in fuch cafes, the suppreffion always appears as symptomatic of other affections, and is therefore not to be confidered here.

MX.

MX.

The idiopathic cafes of fuppreffion (MVIII) feldom continue long without being attended with various fymptoms or diforders in different parts of the body; very commonly arifing from the blood which fhould have paffed by the uterus, being determined more copioufly into other parts, and very often with fuch force as to produce hemorrhagies in thefe. Hence hemorrhagies from the nofe, lungs, ftomach, and other parts, have appeared in confequence of fuppreffed menfes. Befides thefe, there are commonly hyfteric and dyfpeptic fymptoms produced by the fame caufe; and frequently colic pains, with a bound belly.

MXI.

In the idiopathic cafes of fuppreffion, (MVIII) the indication of cure is to remove the conftriction affecting the extreme veffels of the uterus; and for this purpofe the chief remedy is warm bathing applied to the region of the uterus. This, however, is not always effectual, and I do not know of any other remedy adapted to the indication. Befides this, we have perhaps no other means of removing the conftriction in fault, but that of increasing the action and force of the veffels of the uterus, fo as thereby to overcome the refiftance refiftance or conftriction of their extremities. This therefore is to be attempted by the fame remedies in the cafe of fuppreffion, as those prefcribed in the cafes of retention (MIV-MVI). The tonics, however, and cold bathing (MIV) feem to be lefs properly adapted to the cafes of fuppreffion, and have appeared to me of ambiguous effect.

MXII.

It commonly happens in the cafes of fuppreffion, that though the menfes do not flow at their ufual periods, there are often at those periods fome marks of an effort having a tendency to produce the difcharge. It is therefore at those times especially when the efforts of the fystem are concurring, that we ought to employ the remedies for curing a suppression; and it is commonly fruitles to employ them at other times, unless they be such as require fome continuance in their use to produce their effects.

- MXIII.

Nearly fimilar to the cafes of fuppreffion, are those cafes in which the menses flow after longer intervals and in leffer quantity than ufual ; and when these cases are attended with the disorders in the fystem (MX) they are to be cured by the same remedies as the cases of entire suppreffion.

MXIV.

252 PRACTICE

MXIV.

It may be proper in this place to take notice of the dyfmenorrhea, or cafes of menftruation in which the menfes feem to flow with difficulty, and are accompanied with much pain in the back, loins, and lower belly. We impute this diforder partly to fome weaker action of the veffels of the uterus, and partly, perhaps more efpecially, to a fpafm of its extreme veffels. We have commonly found the difeafe relieved by employing fome of the remedies of fuppreffion immediately before the approach of the period, and at the fame time employing opiates.

CHAP. IX.

F SYMPTOMATIC HEMORRHA-GIES.

MXV.

I HAVE thought it very improper in this work, to treat of those morbid affections that are almost always symptomatic of other more primary diseases; and this for several reasons, particularly because it introduces a great deal of confusion in directing practice, and leads physicians to employ palliative measures only. I shall here, however, deviate a little from my general plan, to make fome reflections upon symptomatic hemorrhagies.

MXVI.

The hemorrhagies of this kind that especia.ly deferve our notice, are the Hematemess, or Vomiting of Blood; and the Hematuria, or the Voiding of Blood from the urinary pasfage. Upon these I amhere to make some re-Vol. II. M marks;

254 PRACTICE

marks ; becaufe, though they are very generally fymptomatic, it is poffible they may be fometimes primary and idiopathic affections ; and becaufe they have been treated of as primary difeafes in almost every fystem of the practice of physic.

Edered and penalty is faire, Man the huffory

the context mine whole is the influences of a

FREATHER AND DESCRIPTION OF THE PROPERTY OF TH

Of the HEMATEMESIS, or VOMITING of BLOOD.

MXVII.

I HAVE faid above (in DCCCCXLV) in what manner blood thrown out from the mouth may be known to proceed from the ftomach, and not from the lungs ; but it may be proper here to fay more particularly, that this may be certainly known, when the blood is brought up manifeftly by vomiting without any coughing; when this vomiting has been preceded by fome fense of weight, anxiety, and pain, in the region of the ftomach; when the blood brought up is of a black and grumous appearance, and when it is manifestly mixed with other contents of the ftomach; we can feldom have any doubt of the fource from whence the blood proceeds, and therefore of the existence of the disease we treat of. MXVIII.

MXVIII.

We must allow it to be possible that a plethoric state of the body from general caufes may be accompanied with caufes of a peculiar determination and afflux of blood to the stomach, fo as to occasion an hemorrhagy there, and thence a vomiting of blood ; and in fuch a cafe this appearance might be confidered as a primary difease. But the history of difeases in the records of physic, afford little foundation for such a supposition ; and on the contrary, the whole of the instances of a vomiting of blood which have been recorded, are pretty manifestly symptomatic of a more primary affection.

Of fuch fymptomatic vomitings of blood, the chief inftances are the following.

MXIX.

One of the moft frequent is that which appears in confequence of a fuppreffion of an evacuation of blood which had been for fome time before established in another part of the body, particularly that of the menstrual flux in women.

MXX.

There are inflances of a vomiting of blood happening from the retention of the menses : M 2 But But fuch inftances are very uncommon; as a retention of the menfes rarely happens in confequence of, or even with, a plethoric flate of the body; and as rarely does it produce that, or the hemorrhagy in queftion.

There are inftances of a vomiting of blood happening to pregnant women; that might therefore alfo be imputed to the fupprefion of the menfes, which happens to women in that ftate. There have indeed been more inftances of this than of the former cafe; but the latter are ftill very rare; for although the blood which ufed to flow monthly before impregnation, is, upon this taking place, retained, it is commonly fo entirely employed in dilating the uterine veffels, and in the growth of the fœtus, that it is feldom found to produce a plethoric ftate of the body, requiring a vicarious outlet.

The vomiting of blood, therefore, that is vicarious of the menftrual flux, is that which commonly and almost only happens upon a fuppression of that flux, after it had been for fome time established.

MXXM confequences leads

Bus even this when and ors, happen mether

When fuch a fuppreffion happens, it may be fuppofed to operate by inducing a plethoric ftate of the whole body, and thereby occafioning hemorrhagy from other parts of it; and hemorrhagies from many different parts of the body have been obferved by phyficians 25

256

as occurring in consequence of the suppression we speak of. It is however the great variety of fuch hemorrhagies, that leads me to think, that with the plethoric flate of the whole body there must be always fome peculiar circumftances in the part from which the blood flows, that determines its afflux to that particular, often fingularly odd, part ; and therefore, that fuch hemorrhagies may from these circumftances occur without any confiderable plethora at the fame time prevailing in the whole fyftem.odainside.otst vers in and anter alle

-mean manager MXXII.

It is to be observed, that if we are to expect an hemorrhagy in confequence of a fuppreffion of the menses inducing a plethoric state of the fystem, we should expect especially an hemoptyfis, or hemorrhagy from the lungs, as a plethora might be expected to fhow its effects especially there ; and accordingly, upon occafion of suppressed menses, that hemorrhagy occurs more frequently than any other: But even this, when it does happen, neither in its circumstances nor its consequences, leads us to suppose, that at the fame time any confiderable or dangerous plethora prevails in the be lappoled anothing stelly addiction body.

to flate of the ".IIIXXM

: as these starts in

fine not

These confiderations in MXXI, MXXII, will, I apprehend, apply to our present subject ; M 3

258

ject ; and I would therefore allege, that a hematemefis may perhaps depend upon particular circumftances of the flomach determining an afflux of blood to that organ, and may therefore occur without any confiderable or dangerous plethora prevailing in the fyftem. What are the circumftances of the flomach, which, upon the occafion mentioned, may determine an afflux of blood to it, I cannot certainly or clearly explain ; but prefume that it depends upon the connexion and confent which we know to fubfift between the uterus and the whole of the alimentary canal, and efpecially that principal part of it the flomach.

MXXIV.

From these reflections, we may, I think, draw the following conclusions.

I. That the hematemefis we fpeak of is hardly ever a dangerous difeafe.

II. That it will hardly ever require the remedies fuited to the cure of active hemorrhagy; and at leaft that it will require thefe only in those unufual cases in which there appear strong marks of a general plethora, and in which the vomiting of blood appears to be confiderably active, very profuse, and frequently recurring.

III. That a vomiting of blood from fuppreffed menfes, ought feldom to prevent the use of these remedies of amenorrhœa, which might might be improper in the cafe of an active idiopathic hemorrhagy.

ticular sitemethane of the mount is starit

Another cafe of fymptomatic hematemefisquite analogous to that already mentioned, is the hematemefis following, and feemingly depending upon, the fuppreffion of an hemorrhoidal flux, which had been eftablished and frequent for fome time before.

This may perhaps be explained by a general plethoric flate induced by fuch a fuppreffion; and indeed fome degree of a plethoric flate muft in fuch a cafe be fuppofed to take place; but that fuppofition alone will not explain the whole of the cafe; for a general plethora would lead us to expect an hemoptyfis (MXXII) rather than an hematemefis; and there is therefore fomething flill wanting, as in the former cafe, to explain the particular determination to the flomach.

Whether fuch an explanation can be got from the connexion between the different parts of the fanguiferous veffels of the alimentary canal, or from the connexion of the whole of thefe veffels with the vena portarum, I fhall not venture to determine. But in the mean time I imagine, that the explanation required is rather to be obtained from that connexion of the ftomach with the hemorrhoidal affection that I have taken notice of in DCCCCXLVI.

MXXVI.

tado for mise selection and com

MXXVI.

However we may explain the hematemefis occafioned by a fuppreffion of the hemorrhois, the confiderations in MXXI, MXXII, will apply here as in the analogous cafe of hematemefis from fuppreffed menfes; and will therefore allow us alfo to conclude here, that the difeafe we now treat of will feldom be dangerous, and will feldom require the fame remedies that idiopathic and active hemorrhagy does.

MXXVII. do block on be

The cafes of hematemefis already mentioned, may be properly fuppofed to be hemorrhagies of the arterial kind ; but it is probable that the ftomach is alfo liable to hemorrhagies of the venous kind. (DCCLXVIII).

In the records of phyfic there are many inflances of vomitings of blood, which were accompanied with a tumefied fpleen, which had compreffed the vas breve, and thereby prevented the free return of venous blood from the flomach. How fuch an interruption of the venous blood may occafion an hemorrhagy from either the extremities of the veins themfelves, orfrom the extremities of their correfpondent arteries, we have explained above in DCCLXIX, and the hiftories of tumefied fpleens compreffing the vafa brevia, afford an excellent

excellent illustration and confirmation of our doctrine on that fubject, and render it fufficiently probable that vomitings of blood often arife from fuch a caufe. Hiwally ZM MXXVIII.

to, step supporteris off muse

It is also possible, that an obstruction of the liver refifting the free motion of the blood in: the vena portarum, may sometimes interrupt the free return of the venous blood from the veffels of the flomach, and thereby occasion a vomiting of blood ; but the inftances of this are neither fo frequent nor fo clearly explained as those of the former case.

The cafes of her.XIXXM Fordy LINEMIONA

ed, may be properly (uppoled to be hemor-Belide these cases depending on the flate of the liver or spleen, it is very probable that other hemorrhagies of the ftomach are fre-quently of the venous kind.

The difease named by Sauvages Melæna, and by other writers commonly termed the Morbus Niger (DCCLXXII), confifting in an evacuation either by vomiting or by flool, and fometimes in both ways, of a black and grumous blood, can hardly be otherwife oc-cafioned, than by a venous hemorrhagy from some part of the internal surface of the ali-ermoadent arrenoe mentary canal.

It is, indeed, poffible, that the bile may fometimes put on a black and vifcid appear-NOL. 2. M 5 ance,, ance, and give a real foundation for the appellation of an Atra Bilis : But it is certain, that inflances of this are very rare; and it is highly probable, that what gave occasion to the notion of an atra bilis among the ancients, was truly the appearance of blood poured into the alimentary canal in the manner I have mentioned; and which appearance, we know, the blood always puts on when it has flagnated there for any length of time. I suppose it is now generally thought, that Boerhaave's notion of fuch a matter existing in the mass of blood, is without any foundation ; whilft, by diffections in modern times, it appears very clearly, that the morbus niger prefenting fuch an appearance of blood, always depends upon the effusion and flagnation I have mentioned.

MXXX.

From this account of the melæna it will appear, that vomitings of blood may arife in confequence of blood being poured out in the manner I have mentioned, either into the cavity of the flomach itfelf, or into the fuperior portions of the inteftines, from whence matters often pass into the flomach.

MXXXI.

Both in the cafe of the malæna, and in the analogous cafes from affections of the fpleen or liver, it will appear, that the vomitings of blood blood occurring must be confidered as fymptomatic affections, not at all to be treated as a primary active hemorrhagy, but by remedies, if any fuch be known, that may refolve the. primary obstructions.

MXXXII.

and other instrumped

I believe I have now mentioned almost the whole of the caufes producing an hematemefis; and certainly the causes mentioned, are those which most commonly give occasion to that fymptom. Poffibly, however, there may belome other caules of it, fuch as that fingular one mentioned by Sauvage of an aneurism of the aorta burfting into the flomach; and it is poffible, that some difeases of other contiguous. parts, which have become closely adhering to the ftomach, may fometimes, by a rupture into the cavity of the ftomach, pour blood into it, which is afterwards rejected by vomiting. It is poffible alfo, that abfceffes and ulcerations of the ftomach itself, may fometimes pour blood into its cavity to be thrown up by vomiting.

I did not think it neceffary, among the lymptomatic vomitings of blood, to enumerate those from external violence, nor, what is analogous to it, that which arises from violent firaining to vomit; which last, however, is much more rare than might be expected. In either of these cases the nature of the discase cannot be doubtful, and the management of it M 6 will

PRACTICE

264

will be readily underflood from what has been delivered above with refpect to moderating and reftraining hemorrhagy in general.

bristow s. o. S E C T. T. T. H. Maller , Side

made by r flong upplanting for part of the

Of the HEMATURIA, or the VOIDING of BLOOD from the URINARY PASSAGE.

is further to be MXXXIII. Or of red rol rol a

The crifter per chan superint

IT is alleged, that an hematuria has occurred without any other fymptom of an affection of the kidneys or urinary paffages being prefent at the fame time ; and as this happened to plethoric perfons, and recurred at fixed periods, fuch a cafe has been fuppofed to be an inftance of idiopathic hematuria, and of the nature of those active hemorrhagies I have treated of before.

MXXXIV.

I cannot positively deny the existence of fuch a cafe; but must observe, that there are very few inflances of fuch upon the records of physic; that none have ever occurred to my observation, or to that of my friends; and that the observations adduced may be fallacious, as I have frequently observed an hematuria

265

turia without fymptoms of other affection of the kidney or urinary paffages being, for the time, prefent ; whilft,'however, fits of a nephralgia calculofa having, before or foon after, happened, rendered it to me fufficiently probable, that the hematuria was owing to a wound made by a ftone prefent in fome part of the urinary paffages.

MXXXV.

The exiftence of an idiopathic hematuria is further improbable, as a general plethora is more likely to produce an hemoptyfis (MXXII), and as we do not well know of any circumflances which might determine more particularly to the kidneys. An idiopathic hematuria, therefore, muft certainly be a rare occurrence ; and inflances of fymptomatic affections of the fame kind are very frequent.

MXXXVI. molad to beisber

One of the most frequent is, that hematuria which attends the nephralgia calculosa, and feems manifestly to be owing to a stone wounding the internal surface of the pelvis of, the kidney or of the ureter. In such cases, the blood discharged with the urine is sometimes of a pretty florid colour, but for the most part is of a dark hue; the whole of it is sometimes diffused or dissolved, and therefore entirely PRACTICE

entirely fulpended in the urine ; but if it is in any large quantity, a portion of it is depolited to the bottom of the veffel containing the voided blood and urine. On different occafions the blood voided puts on different appearances. If the blood poured out in the kidney has happened to ftagnate for fome time in the ureters or bladder, it is fometimes coagulated, and the coagulated part is after. wards broken down into a grumous mals of a black or dark colour, and therefore gives the fame colour to the urine voided ; or if the quantity of broken down blood is fmall, it gives only a brownifh urine refembling coffee.

It fometimes alfo happens, that the blood flagnating and coagulating in the ureters, takes the form of these vessels, and is therefore voided under the appearance of a worm; and if the coagulated blood happens to have, as it may fometimes have, the gluten separated from the red globules, these wormlike appearances have their external furface whitish, and the whole seemingly forming a tube containing a red liquor. I have sometimes observed the blood which had seemingly been coagulated in the ureter, come away in an almost dry state, refembling the half burnt wick of a candle.

MXXXVII.

These are the several appearances of the blood voided in the hematuria calculosa, when it it proceeds especially from the kidneys or ureter; and many of the same appearances are observed when the blood proceeds only from the bladder when a stone is lodged there; but the attending symptoms will commonly point out the different seat of the disease.

In one cafe, when a quantity of blood from the kidney or ureter is coagulated in the bladder, and is therefore difficultly thrown out from this, the pain and uneafinefs on fuch an occafion may appear chiefly to be in the bladder, though it contains no ftone; but the antecedent fymptoms will commonly difcover the nature of the difeafe.

MXXXVIII.

In any of the cafes of the hematuria calculofa it will hardly be neceffary to employ the remedies fuited to an active hemorrhagy. It will be proper only to employ the regimen fit for moderating hemorrhagy in general, and particularly here to avoid every thing or circumftance that might irritate the kidneys or ureters. Of fuch cafes of irritation there is none more frequent or more confiderable than the prefence of hardened fæces in the colon ; and thefe therefore are to be frequently removed, by the frequent ufe of gentle laxatives.

MXXXIX.

The hematuria calculofa may be properly confidered as a cafe of the hematuria violenta ; and and therefore I fubjoin to that the other inftances of hematuria from external violence; fuch as that from external contufion on the region of the kidney, and that from the violent or long continued exercise of the muscles incumbent on the kidneys. An inflance of the latter cause occurs especially in riding.

MXL.

It may alfo be confidered as a cafe of the hematuria violenta, when the difeafe occurs in confequence of the taking in of certain acrid fubftances, which pafs again efpecially by the urinary paffages; and, by inflaming and fwelling the neck of the bladder, bring on a rupture of the over diftended blood veffels, and give occafion to a bloody urine. The moft noted inftance of this is in the effect of cantharides in a certain quantity, any way introduced into the body. And poffibly fome other acrids may have the fame effect.

MXLI.

Befide thefe most frequent inflances of hematuria, which cannot be confidered as idiopathic hemorrhagies, there are fome other inflances of hematuria mentioned by authors, that are still however manifestly fymptomatic; fuch as a discharge of blood from the urinary passages, in consequence of a suppreffion of either the menstrual or hemorrhoidal flux. flux. These may be confidered as analogous to the hematemesis produced by the like caufes; and the several reflections made above on that subject, will, I think, apply here, and particularly the conclusions formed in MXXIV. Instances, however, of either of these cases, and especially of the first, have been extremely rare.

MXLII.

Of fuch fymptomatic hematuria there is however one inftance deferving notice ; and that is, when a suppression of the hemorrhoidal flux, either by a communication of velfels, or merely by the vicinity of parts, occafions a determination of the blood into the veffels of the neck of the bladder, which in consequence of a rixis or anastomosis, pour out blood to be voided either with or without the urine. This cafe is what has been named the Hemorrhoides Veficæ; and with fome propriety, when it is manifeftly an evacuation vicarious of what had before been ulually made from the rectum. With respect to the management of the hemorrhoides veficæ, I would apply the whole of the doctrines that I have delivered above, with respect to the cure of the proper hemorrhoidal affection.

MXLIII.

There remains still to be mentioned one other instance of symptomatic hematuria, which 270

which is that which happens in the cafe of confluent and putrid fmall pox, as well as in feveral other inflances of putrid difeafes. The blood, in fuch cafes, may be prefumed to come from the kidneys; and I apprehend that it comes from thence in confequence of that fluidity which is always produced in the blood approaching to a putrid flate. Such hematuria, therefore, is not to be confidered as a fymptom of any affection of the kidneys, but merely as a mark of the putrefcent flate of the blood.

MXLIV.

In certain diseases the urine is discharged of fuch a deep red colour, as to give a fulpicion of its being tinged by blood prefent in it; and this has given occasion to Sauvages, amongst the other species of hematuria, to mark the hematuria spuria, and the hematuria lateritia; both of which, however, he supposes to be without any blood prefent in the urine. In many cafes it is of importance, in afcertaining the nature of a difease, to determine whether the red colour of urine be from blood prefent in it, or from a certain flate of the falts and oils which are always in greater or leffer proportion conftituent parts of the urine; and the queftion may be commonly determined by the following confiderations.

It has been observed above, that when any confiderable quantity of blood is voided with the urine, there is always a portion of it deposited

polited at the bottom of the vellel containing the voided blood and urine; and in fuch a cafe there will be no doubt in attributing the colour of the urine floating above to fome part of the blood diffused in it. The queftion, therefore, with respect to the presence of blood in the urine can only occur when no fuch deposition as I have mentioned appears; and when the blood that may be fuppoied to be present is diffolved or diffused, and therefore entirely fuspended in the urine. In this cafe the presence of the blood may be commonly known, 1ft, By the colour which blood gives, different from any urine without blood that I have ever feen ; and I think a little experience will enable most perfons to make this diffinction. 2dly, By this, that the prefence of blood always diminishes the transparency of the urine with which it is mixed ; and it is very feldom that urine, though very high coloured, loses its transparency ; at least this hardly ever appears, if the urine is examined when recently voided. 3dly, When urine has blood mixed with it, it tinges a piece of linen dipped into it with a red colour, which the highest coloured urine without blood, never does. 4thly, High coloured urine without blood, upon cooling, and remaining at reft in a veffel, almost always deposites a lateritious sediment; and if upon any occasion bloody urine should deposite a fediment that may be of a portion of the blood formerly diffused in it, the difference, however, may be difcerned difcerned by this, that the fediment depofited by urine without blood, upon the urine's being again heated, will be entirely rediffolved, which will not happen to any fediment from blood. Laftly, we know no ftate of urine without blood, which fhews any portion of it coagulable by a heat equal to that of boiling water ; but blood diffufed in urine is ftill coagulable by fuch a heat ; and by this teft, therefore, the prefence of blood in urine may be commonly afcertained.

sver stinguicht stats all t

eleabithed & infire al Blendes amidel de fele an

Flares, togs Production Files Sticks in children by W.

have brought together a grantemundant of the

cepting the fault strangelit and of an increal.

ed difficient to finites, and menter alto are the

allook support of the different in addition to a costic

- Stone and the amount of the binness Studies is

alis bda to man Pristikatik Star bars impor

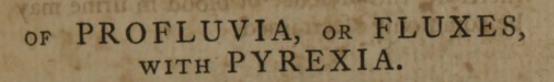
enfer comprising and industries and in the planets

alogithe inch pince on a manter is and aligota

tor thorn. I have an employed in another the

berg and genieral anides plant I contained the

BOOK



SAND MORE CHOKE

FORMER nofologifts have established a class of diseases under the title of Fluxes, or Profluvia; but as in this clafs they have brought together a great number of difeafes, which have nothing in common, excepting the fingle circumstance of an increafed discharge of fluids, and which also are, in other respects, very different from one another ; I have avoided fo improper an arrangement, and have distributed most of the difeases comprehended in fuch a class by the nofologists, into places more natural and proper for them. I have, indeed, still employed here the general title ; but I confine it to fuch 0 8

MXLV.

anlied to see O O K V.

THE PERSON STREET CONTINUES

274 PRACTICE

fuch fluxes only as are conftantly attended with pyrexia, and which therefore neceffarily belong to the clafs of difeafes of which I am now treating.

Of the fluxes which may be confidered as being very conftantly febrile difeafes, there are only two, the *catarrh* and *dyfentery*; and of these therefore I now proceed to treat.

total durbas of Resident to the

But a summer to ence state and for service directions

Later month in the state of the state of the state

CHAP.

Billion My San Sterland

CHAP. I.

COLORADO DE DESIL

OF THE CATARRH.

MXLVI.

HE catarrh is an increased excretion of mucus from the mucous membrane of the nose, fauces, and bronchiæ, attended with pyrexia.

Practical writers and nofologifts have diftinguifhed the difeafe by different appellations, according as it happens to affect those different parts of the mucous membrane, the one part more or lefs than the other : But I am of opinion, that the difease, although affecting different parts, is always of the fame nature, and proceeds from the fame cause. Very commonly, indeed, those different parts are affected at the fame time ; and therefore there can be little room for the diffinction mentioned.

The difeafe has been frequently treated of under the title of Tuffis, or Cough; and a cough, 276

cough, indeed, always attends the chief form of catarrh, that is, the increafed excretion from the bronchize; but a cough is fo often a fymptom of many other affections, which are very different from one another, that it is improperly employed as a generic title.

MXLVII.

The remote caufe of catarrh is moft commonly cold applied to the body. This application of cold producing catarrh, can in many cafes be diffinctly obferved; and I believe it would always be fo, were men acquainted with, and attentive to, the circumftances which determine cold to act upon the body. See XCIV—XCVI.

From the fame paragraphs we may learn what in fome perfons gives a predifposition to catarrh.

MXLVIII.

The difeafe, of which I am now to treat, generally begins with fome difficulty of breathing through the nofe, and with a fenfe of fome fulnefs ftopping up that paffage. This is alfo often attended with fome dull pain and a fenfe of weight in the forehead, as well as fome ftiffnefs in the motion of the eyes. Thefe feelings, fometimes at their very first beginning, and always foon after, are attended with the diffillation from the nofe; and fometimes from

277

from the eyes, of a thin fluid, which is often found to be fomewhat acrid, both by its tafte, and by its fretting the parts over which it paffes.

MXLIX.

These fymptoms conflitute the coryza and gravedo of medical authors, and are commonly attended with a fense of laffitude over the whole body. Sometimes cold shiverings are felt, at least the body is more fensible than ufual to the coldness of the air; and with all this the pulse becomes, especially in the evenings, more frequent than ordinary.

ML.

These symptoms seldom continue long before they are accompanied with fome hoarfenefs, and a fenfe of roughnefs and forenefs in the trachea, and with fome difficulty of breathing, attributed to a fense of straitness of the cheft, and attended with a cough, which feems to arife from fome irritation felt at the glottis. The cough is generally at first dry, occasioning pains about the cheft, and more especially in the breast. Sometimes, together with these symptoms, pains refembling those of the rheumatism are felt in feveral parts of the body, particularly about the neck and head. While these fymptoms take place, the VOL. II. N

278

the appetite is impaired, some thirst arises, and a general lassitude is felt over all the body.

MLI.

Thefe fymptoms (MXLVIII—ML) mark the violence and height of the difeafe; which, however, does not commonly continue long. By degrees the cough becomes attended with a copious excretion of mucus; which is at first thin, but gradually becoming thicker, is brought up with lefs frequent and lefs laborious coughing. The hoarfenefs and forenefs of the trachea likewife going off, the febrile fymptoms abating, the cough becoming lefs frequent, and with lefs expectoration, the difcafe foon after ceafes altogether.

MLII.

Such is generally the courfe of this difeafe, which is commonly neither tedious nor dangerous; but, upon fome occafions, it is in both refpects otherwife. A perfon affected with catarrh feems to be more than ufually liable to be affected by cold air; and in that condition, if exposed to cold, the difease, which feemed to be yielding, is often brought back with greater violence than before; and is rendered not only more tedious than otherwise it would have been, but also more dangerous by the fupervening of other difease.

MLIII.

MLIII. astruturatiogra boa

Some degree of the cynanche tonfillaris often accompanies the catarrh; and, when the latter is aggravated by a fresh application of cold, the cynanche also becomes more violent and dangerous, in confequence of the cough which is present at the same time.

MLIV.

When a catarrh has been occafioned by a violent caufe ; when it has been aggravated by improper management ; and efpecially when it has been rendered more violent by fresh and repeated applications of cold, it often passes into a pneumonic inflammation attended with the utmost danger.

MLV.

Unlefs, however, fuch accidents as those of MLII—MLIV, happen, a catarrh, in found perfons not far advanced in life, is, I think, always a flight difease, and attended with little danger. But, in perfons of a phthisical disposition, a catarrh may readily produce an hemoptysis, or perhaps form tubercles in the lungs; and more certainly, in perfons who have tubercles already formed in the lungs, an accidental catarrh may occasion the inflam-N 2 mation mation of these tubercles, and in consequence produce a phthisis pulmonalis.

280

MLVI.

In elderly perfons, a catarrh fometimes proves a dangerous difeafe. Many perfons, as they advance in life, and elpecially after they have arrived at old age, have the natural mucus of the lungs poured out in greater quantity, and confequently requiring a frequent expectoration. If therefore a catarrh happen to fuch perfons, and increafe the afflux of fluids to the lungs, with fome degree of inflammation, it may produce the peripneumonia notha, which in fuch cafes is very often fatal. See CCCLXXVI— CCCLXXXII.

MLVII.

The proximate caufe of catarrh feems to be an increafed afflux of fluids to the mucous membrane of the nofe, fauces, and bronchiæ, along with fome degree of inflammation affecting thefe parts. The latter circumftance is confirmed by this, that in the cafe of catarrh, the blood drawn from a vein, commonly exhibits the fame inflammatory cruft which appears in the cafe of phlegmafiæ.

MLVIII.

ANS IN CORDEQUENCE

The application of cold which occasions a catarrh, probably operates by diminishing the perspiration usually made by the skin, and which is therefore determined to the mucous membrane of the parts above mentioned. As a part of the weight which the body daily lofes by infenfible evacuation, is owing to an exhalation from the lungs, there is probably a connexion between this exhalation and the cutaneous perspiration, fo that the one may be increased in proportion as the other is diminished : And therefore we may underfland how the diminution of cutaneous perspiration, in consequence of the application of cold, may increase the afflux of fluids to the lungs, and thereby produce a catarrh.

MLIX.

There are fome observations made by Dr. James Keil which may feem to render this matter doubtful; but there is a fallacy in his observations. The evident effects of cold in producing coryza, leave the matter in general without doubt; and there are feveral other circumstances which show a connexion between the lungs and the furface of the body.

MLX.

281

mamon of the faith of the

282

MLX.

Whether, from the fuppreffion of perfpiration, a catarrh be produced merely by an increafed afflux of fluids, or whether the matter of perfpiration be at the fame time determined to the mucous glands, and there excite a particular irritation, may be uncertain ; but the latter fuppofition is fufficiently probable.

MLXI.

Although, in the cafe of a common catarrh, which is in many inftances fporadic, it may be doubtful whether any morbific matter be applied to the mucous glands; it is, however, certain, that the fymptoms of a catarrh do frequently depend upon fuch a matter being applied to thefe glands; as appears from the cafe of meafles, chincough, and efpecially from the frequent occurrence of contagious and epidemical catarrh.

MLXII.

The mention of this laft leads me to obferve, that there are two fpecies of catarrh, as I have marked in my Synopfis of Nofology. One of thefe, as I fuppofe, is produced by cold alone, as has been explained above; and the other feems manifeftly to be produced by a fpecific contagion. Of fuch contagious catarrhs, I have pointed out in the Synopfis many inftances occurring from the 14th century down to the prefent day. In all thefe inftances the phenomena have been much the fame ; and the difeafe has always been particularly remarkable in this, that it has been the most widely and generally spreading epidemic known. It has feldom appeared in any one country of Europe, without appearing succeffively in every other part of it ; and in some inftances, it has been even transferred to America, and has been spread over that continent, fo far as we have had opportunities of being informed.

MLXIII.

The catarrh from contagion appears with nearly the fame fymptoms as those mentioned MXLVIII-ML. It feems often to come on in confequence of the application of cold. It comes on with more cold fhivering than the catarrh arifing from cold alone, and fooner fhows febrile fymptoms, and thefe likewile in a more confiderable degree. Accordingly, it more speedily runs its course, which is commonly finished in a few days. It sometimes terminates by a fpontaneous fweat; and this, in some persons, produces a miliary eruption. It is, however, the febrile state of this difease especially, that is finished in a few days; for the cough, and other catarrhal fymptoms, do frequently continue longer; and often, when they N 4

they appear to be going off, they are renewed by any fresh application of cold.

MLXIV.

Confidering the number of perfons who are affected with catarrh, of either the one fpecies or the other, and efcape from it quickly without any hurt, it may be allowed to be a difeafe very free from danger ; but it is not always to be confidered as fuch ; for in fome perfons it is accompanied with pneumonic inflammation. In the phthifically difpofed, it often accelerates the coming on of phthifis ; and in elderly perfons, it frequently proves fatal in the manner explained above, MLIV and MLVI.

MLXV.

The cure of catarrh is nearly the fame, whether it proceed from cold or contagion; with this difference, that in the latter cafe, remedies are commonly more neceffary than in the former.

In the cafes of a moderate difeafe, it is commonly fufficient to avoid cold, and to abftain from animal food for fome days; or perhaps to lie a bed, and, by taking frequently of fome mild and diluent drink a little warmed, to promote a very gentle fweat; and after thefe to take care to return very gradually only, to the ufe of the free air.

MLXVI.

F PHYSIC. they appear to be

any their complexity is co

MLXVI.

When the difease is more violent, not only the antiphlogiftic regimen must be exactly observed, but various remedies also become neceffary.

To take off the phlogiftic diathefis which always attends this difeafe, bloodletting, in a larger or fmaller quantity, and repeated according as the fymptoms shall require, is the proper remedy.

For reftoring the determination of the fluids to the furface of the body, and at the fame time for expeding the fecretion of mucus in the lungs, which may take off the inflammation of its membrane, vomiting is the most effectual means.

For the latter purpofe, it has been fuppofed, that fquills, gum ammoniac, the volatilealkali, and fome other medicines, might be uleful : But their efficacy has never appeared to me to be confiderable; and, if fquills have ever been very uleful, it feems to have been rather by their emetic, than by their expectorant powers.

When the inflammatory affections of the lungs feem to be confiderable, it is proper, befides bloodletting, to apply blifters on fome part of the thorax.

As a cough is often the most troublefome circumstance of this disease, so demulcents:

VOL. 2.

may

PRACTICE

may be employed to alleviate it. See CCCLXXIII.

But, after the inflammatory fymptoms have much abated, if the cough fhould ftill continue, opiates afford the most effectual means of relieving it; and, in the circumstances just now mentioned, they may be very fafely employed. See CCCLXXV.

After the inflammatory and febrile flates of this difeafe are almost entirely gone, the most effectual means of difcuffing all remains of the catarrhal affection, is by fome exercise of gestation diligently employed.

is deficing twin a dileate in

X43114-6

and the stand the second

a vd brassiol at to brasid by a

The move to out the mequent, and

OF PHYSIC.

may be employed to alleving

CCCLXXIII . C.b.

207

C H A P. II.

OF THE DYSENTERY.

molt effected at MLXVII. In forme exercite

of geffation villevnete engloren,

HE dyfentery is a difeafe in which the patient has frequent flools, accompanied with much griping, and followed by a tenefmus. The flools, though frequent, are generally in fmall quantity ; and the matter voided is chiefly mucus, fometimes mixed with blood. At the fame time, the natural fæces feldom appear ; and, when they do, it is generally in a compact and hardened form.

MLXVIII.

This difease occurs especially in fummer and autumn, at the same time with autumnal intermittent and remittent severs; and with these it is fometimes combined or complicated.

MLXIX.

288 PRACTICE

MLXIX.

The difease comes on sometimes with cold shiverings, and other symptoms of pyrexia; but more commonly the fymptoms of the topical affection appear first. The belly is coftive, with an unufual flatulence in the bowels. Sometimes, though more rarely, fome degree of diarrhœa is the first appearance. In most cafes the difease begins with griping, and a frequent inclination to go to ftool. In indulging this, little is voided ; but fome tenefmus attends it. By degrees the ftools become more frequent, the griping more fevere, and the tenefmus more confiderable. Along with these fymptoms there is a lofs of appetite; and frequently ficknefs, naufea, and vomiting, alfo affecting the patient. At the fame time there is always more or lefs of pyrexia prefent, which is fometimes of the remittent kind, and obferves a tertian period. Sometimes the fever is manifeftly inflammatory, and very often of a putrid kind. These febrile states continue to accompany the difeafe during its whole courfe, especially when it terminates soon in a fatal manner. In other cafes, the febrile ftate almost entirely disappears, while the proper dyfenteric fymptoms remain for a long time after.

MLXX.

OF PHYSIC.

MLXX.

In the course of the disease, whether of a fhorter or longer duration, the matter voided by flool is very various. Sometimes it is merely a mucous matter, without any blood, exhibiting that difeafe which Dr. Roderer has named the morbus mucofus, and others the dysenteria alba. For the most part, however, the mucus discharged is more or less mixed with blood. This fometimes appears only in ftreaks amongst the mucus; but at other times is more copious, tinging the whole of the matter discharged ; and upon some occasions a pure and unmixed blood is voided in confiderable quantity. In other refpects, the matter voided is varioufly changed in colour and confiftence, and is commonly of a ftrong and unufually fetid odour. It is probable, that fometimes a genuine pus is voided ; and frequently a putrid fanies, proceeding from gangrenous parts. There are very often mixed with the liquid matter fome films of a membranous appearance, and frequently fome fmall maffes of a feemingly febaceous matter.

MLXXI.

While the ftools confifting of these various matters, are, in many instances, exceedingly frequent, it is feldom that natural fæces appear in them; and when they do appear, it is, 290

is, as I have mentioned, in the form of fcybala, that is, in fomewhat hardened, feparate balls. When thefe are voided, whether by the efforts of nature, or as folicited by art, they procure a remiffion of all the fymptoms, and more efpecially of the frequent ftools, griping, and tenefmus.

MLXXII.

Accompanied with these circumstances, the difease proceeds for a longer or a shorter time. When the pyrexia attending it is of a violent inflammatory kind, and more efpecially when it is of a very putrid nature, the difeafe often terminates fatally in a very few days, with all. the marks of a fupervening gangrene. When the febrile state is more moderate, or difappears altogether, the difeafe is often protracted for weeks, and even for months ; but, even then, after a various duration, it often terminates fatally, and generally in confequence of a return and confiderable aggravation of the inflammatory and putrid flates. In fome cafes, the difeafe ceafes spontaneously; the frequency of ftools, the griping, and tenefinus, gradually diminishing, while natural stools return. In other cafes, the difeafe, with moderate fymptoms, continues long, and ends in a diarrhœa, fometimes accompanied with lienteric lymptoms.

MLXXIII.

MLXXIII.

The remote causes of this difease have been varioufly judged of. It generally arifes in fummer or autumn, after confiderable heats have prevailed for fome time, and efpecially after very warm and at the fame time very dry flates of the weather ; and the difeafe is much more frequent in warm, than in cooler climates. It happens, therefore, in the fame circumftances and feafons which confiderably affect the flate of the bile in the human body; but as the cholera is often without any dyfenteric fymptoms, and copious difcharges of bile have been found to relieve the fymptoms of dyfentery, it is difficult to determine what connexion the difease has with the state of the bile.

MLXXIV.

It has been obferved, that the effluvia from very putrid animal fubftances, readily affect the alimentary canal; and upon fome occafions they certainly produce a diarrhœa; but, whether they ever produce a genuine dyfentery, I have not been able to learn with certainty.

MLXXV.

The dyfentery does often manifestly arife from the application of cold, but the difease is 292

is always contagious; and, by the propagation of fuch contagion, independent of cold, or other exciting caufes, it becomes epidemic in camps and other places. It is, therefore, to be doubted, if the application of cold does ever produce the difeafe, unlefs where the fpecific contagion has been previoufly received into the body : And upon the whole, it is probable, that a fpecific contagion is to be confidered as always the remote caufe of this difeafe.

MLXXVI.

Whether this contagion, like many others, be of a permanent nature, and only fhows its effects in certain circumstances which render it active, or if it be occasionally produced, I cannot determine. Neither, if the latter suppolition be received, can I fay by what means it may be generated. As little do we know any thing of its nature, confidered in itfelf; or at most this only, that, in common with many other contagions, it appears to be commonly of a putrid nature, and capable of inducing a putrescent tendency in the human body. This, however, does not at all explain its peculiar power in inducing those fymptoms which properly and effentially conflitute the disease of dysentery. (MLXVII).

MLXXVII.

MLXXVII.

Of these fymptoms the proximate cause is still obscure. The common opinion has been, that the difease depends upon an acrid matter received into, or generated in the inteffines themselves, exciting their peristaltic motion, and thereby producing the frequent ftools which occur in this difeafe. But this fuppofition cannot be admitted ; for, in all the instances known of acrid substances applied to the intestines and producing frequent stools, they at the fame time produce copious ftools, as might be expected from acrid fubstances applied to any length of the inteftines. This, however, is not the cafe in dyfentery; in which the stools, however frequent, are generally in very fmall quantity, and fuch as may be supposed to proceed from the lower parts of the rectum only. With respect to the fuperior portions of the intestines, and particularly those of the colon, it is probable they are under a preternatural and confiderable degree of constriction : For, as I have observed above, the natural fæces are feldom voided ; and when they are, it is in a form which gives reason to suppose, they have been long retained in the cells of the colon, and confequently that the colon had been affected with a preternatural conftriction. This is confirmed by almost all the diffections which have been made of the bodies of dysenteric patients, in 294

in which, when gangrene had not entirely deftroyed the texture and form of the parts, confiderable portions of the great guts have been found affected with a very confiderable confiriction.

MLXXVIII.

I apprehend, therefore, that the proximate caufe of dyfentery, or at leaft the chief part of the proximate cause, confists in a preternatural conftriction of the colon, occasioning at the fame time those spafmodic efforts which are felt in fevere gripings, and which efforts, propagated downwards to the rectum, occafion there the frequent mucous ftools and tenefmus. But, whether this explanation shall be admitted or not, it will still remain certain, that hardened fæces retained in the colon are the cause of the griping, frequent stools, and tenefmus; for the evacuation of these fæces, whether by nature or by art, gives relief from the fymptoms mentioned; and it will be more fully and usefully confirmed by this, that the most immediate and fuccessful cure of dyfentery is obtained by an early and conftant attention to the preventing the constriction, and the frequent flagnation of fæces in the colon.

MLXXIX.

In this manner I have endeavoured to afcertain the proximate caufe of dyfentery, and therefore

OF PHYSIC. 295

therefore to point out alfo the principal part of the cure, which, from want of the proper view of the nature of the difease, seems to have been in feveral refpects fluctuating and undetermined among practitioners.

MLXXX.

The most eminent of our late practitioners, and of greatest experience in this difease, feem to be of opinion, that the difease is to be cured most effectually by purging affiduoully employed. The means may be various; but the most gentle laxatives are usually fufficient; and as they must be frequently repeated, the most gentle are the most fafe ; the more especially as an inflammatory state fo frequently accompanies the difeafe. Whatever laxatives produce an evacuation of natural fæces, and a confequent remiffion of the fymptoms, will be fufficient to effectuate the cure. But if gentle laxatives shall not produce the evacuation now mentioned, fome more powerful medicines must be employed ; and I have found nothing more proper or convenient than tartar emetic, given in fmall dofes, and at fuch intervals as may determine their operation to be chiefly by ftool. Rhubarb, fo frequently employed, is in feveral refpects amongst the most improper purga-

10191505

MLXXXI.

MLXXXI.

Vomiting has been held a principal remedy in this difeafe; and may be ulefully employed in the beginning of it, with a view to both the flate of the flomach and of the fever; but it is not neceffary to repeat it often; and unlefs the emetics employed operate alfo by flool, they are of little fervice. Ipecacuanha feems to poffefs no fpecific power; and it proves only uleful when fo managed as to operate chiefly by flool.

MLXXXII.

For relieving the conftriction of the colon, and evacuating the retained fæces, glyfters may fometimes be uleful; but they are feldom fo effectual as laxatives given by the mouth; and acrid glyfters, if they be not effectual in evacuating the colon, may prove hurtful by ftimulating the rectum too much.

MLXXXIII.

The frequent and fevere griping attending this difeafe, leads almost necessfarily to the use of opiates, and they are very effectual for the purpose of relieving from the gripes; but by occasioning an interruption of the action of the statistic frequency for the construction of the colon, and thereby fometimes aggravate the the difeafe ; and if at the fame time the ufe of them fuperfede in any meafure the employing of purgatives, it commonly does much mifchief ; I believe it indeed to be only the neglect of purging that renders the ufe of opiates very neceffary.

MLXXXIV.

When the gripes are both frequent and fevere, they may fometimes be relieved by the employment of a femicupium, or by a fomentation of the abdomen, continued for fome time. In the fame cafe, the pains may be relieved, and, as I think, the conftriction of the colon may be taken off, by blifters applied to the lower belly.

MLXXXV.

At the beginning of this difeafe, when the fever is any way confiderable, bloodletting, in patients of tolerable vigour, may be proper and neceffary; and, when the pulfe is full and hard, with other fymptoms of an inflammatory difpofition, bloodletting ought to be repeated. But, as the fever attending dyfentery is often of a putrid kind, or does, in the courfe of the difeafe, become foon of that nature, bloodletting must be employed with great caution.

MLXXXVI.

MLXXXVI.

From the account now given of the nature of this difeafe, it will be fufficiently obvious, that the ufe of aftringents in the beginning of it must be absolutely pernicious.

MLXXXVII.

Whether an acrid matter be the original caufe of this difeafe, may be uncertain ; but from the indigeftion and the ftagnation of fluids in the ftomach which attend the difeafe, it may be prefumed, that fome acrid matters are conftantly prefent in the ftomach and inteftines, and therefore that demulcents may be always ufefully employed. At the fame time, from this confideration that mild oily matters thrown into the inteffines in confiderable quantity always prove laxative, I am of opinion that the oleaginous demulcents are the moft ufeful.

MLXXXVIII.

As this difeafe is fo often of an inflammatory or of a putrid nature, it is evident that the diet employed in it fhould be vegetable and acefcent. Milk in its entire ftate is of doubtful quality in many cafes ; but fome portion of the cream is often allowable, and whey is always proper.

OF PHYSIC.

299

In the first stages of the difease, the sweet and subacid fruits are allowable, and even proper. It is in the more advanced stages only that any morbid acidity seems to prevail in the stomach, and to require some referve in the use of acescents. At the beginning of the difease, absorbents seem to be superfluous; and by their astringent and septic powers they may be hurtful.

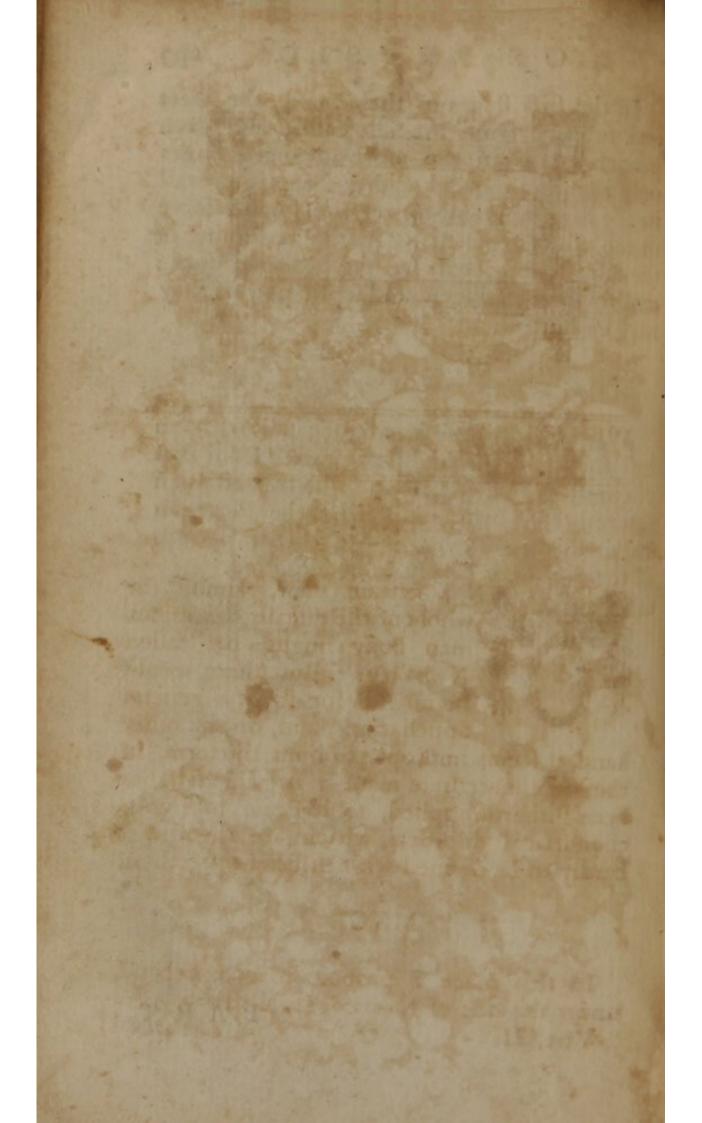
MLXXXIX.

When this difeafe is complicated with an intermittent fever, and is protracted from that circumftance chiefly, it is to be treated as an intermittent, by administering the Peruvian bark, which, however, in the earlier periods of the difeafe, is hardly to be admitted.

must confiders

HAT WHELE PARTY WERE WATER IS

PART



Of Neurofes, or Nervous Diseafes.

ART

P

MXC.



N a certain view, almost the whole of the difeases of the human body might be called NERVOUS: But there would be no use for such a general appellation; and, on the other

II.

hand, it feems improper to limit the term, in the loofe inaccurate manner in which it has been hitherto applied, to hyfteric or hypochondriacal diforders, which are themfelves hardly to be defined with fufficient precision.

MXCI.

In this place I propose to comprehend, under the title of NEUROSES, all those pre-Vol. II. O ternatural ternatural affections of fenfe or motion which are without pyrexia, as a part of the primary difeafe; and all those which do not depend upon a topical affection of the organs, but upon a more general affection of the nervous system, and of those powers of the system upon which fense and motion more especially depend:

MXCII.

Of fuch difeafes I have eftablished a class, under the title of NEUROSES, or NERVOUS DISEASES. These I again diffinguish, as they confist, either in the interruption and debility of the powers of fense and motion, or in the irregularity with which these powers are exercised; and have accordingly arranged them under the four orders of Comata, Adynamiæ, Spasmi, and Vesaniæ, to be defined as we proceed to treat of them more particularly.

BOOK I.

OF COMATA; OR, OF THE LOSS OF VOLUNTARY MOTION.

A A COSCERCE

MXCIII.

UNDER this title are comprehended those affections which have been commonly called the Soporose difeases; but they are most properly diffinguished by their confisting in some interruption or suppression of the powers of sense and voluntary motion, or of what are called the animal functions. These are indeed usually suspended in the time of natural fleep : But of all the difeases to be comprehended under our title, fleep, or even the appearance of it, is not constantly a symptom. Of such difeases I can mark and properly explain two genera only, which come under the titles of Apoplexy and Palfy.

0 2

Q C I

CHAP.

PRACTICE

304

CHAP. I.

OF APOPLEXY.

MXCIV.

APOPLEXY is that difeafe in which the whole of the external and internal fenses, and the whole of the voluntary motions, are in fome degree abolifhed ; while respiration and the action of the heart continue to be performed. By its being an affection of the whole of the powers of fense and of voluntary motion, we diftinguish it from Palfy ; and by its being with the continuance of respiration and the action of the heart, it is diftinguished from Syncope. I have further added to the ordinary definition of apoplexy, that the abolition of the powers of fenfe and motion is in fome degree only; meaning by this to imply, that, under the title of Apoplexy, are here comprehended those difeafes which, as differing from it in degree only, cannot, with a view either to pathology or practice, be properly diffinguished from it : Such

OF PHYSIC.

Such are the difeases sometimes treated of under the names of Carus, Cataphora, Coma, and Lethargus.

MXCV.

Apoplexy, in all its different degrees, most commonly affects perfons advanced in life, and efpecially those above fixty years of age. It most usually affects perfons of large heads and short necks, perfons of a corpulent habit, perfons who have passed an indolent life and used a full diet, and especially those who have indulged in frequent intoxication. Men who have long laboured under a frequent and copious discharge of blood from the hemorrhoidal vessels, upon either the suppression or spontaneous ceasing of that discharge, are particularly liable to be affected with apoplexy.

MXCVI.

This difeafe frequently comes on very fuddenly : But in many cafes it is preceded by various fymptoms, fuch as frequent fits of giddinefs, frequent headachs, a hemorrhagy from the nofe, fome transitory interruptions of feeing and hearing, fome falle vision and hearing, fome transitory degree of numbnefs or lofs of motion in the extremities, fome faltering of the tongue in speaking, a loss of memory, a frequent drowfinefs, and frequent fits of incubus.

MXCVII:

MXCVII.

An attention to thefe fymptoms, and to the predifponent circumstances (MXCV), will often enable us to forefee the more violent attacks of this difease.

MXCVIII.

When the difeafe comes on fuddenly to a confiderable degree, it has been frequently obferved to have been immediately induced by violent exercife ; by a full and long continued infpiration ; by a fit of anger ; by much external heat, efpecially that arifing from a crowded affembly of people ; by warm bathing ; by intoxication ; by long flooping with the head down ; and by a tight ligature about the neck. The difeafe has been remarked to make its attacks moft frequently in the fpring feafon, and efpecially when the vernal heat fuddenly fucceeds to the winter cold.

MXCIX.

The fymptoms denoting the prefence of this difeafe will be fufficiently known from the definition given MXCIV. Although the whole of the body is affected with the lofs of fenfe and motion, it fometimes takes place more upon one fide of the body than the other; and, in that cafe, the fide leaft affected with with palfy is fometimes affected with convulfions. In this difeafe there is often a ftertorous breathing ; and this has been faid to be a mark of the most violent state of the difeafe : But it is not always prefent even in the most complete form or most violent degree of the difeafe.

MC.

The proximate caufe of this difeafe may be, in general, whatever interrupts the motion of the nervous power from the brain to the mufcles of voluntary motion; or, in fo far as fenfe is affected, whatever interrupts the motion of the nervous power from the fentient extremities of the nerves to the brain.

MCI.

Such an interruption of the motions of the nervous power may be occafioned, either by fome compression of the origin of the nerves, or by fomething destroying the mobility of the nervous power. Both these causes we must treat of more particularly; and, first, of that of compression, seemingly the most frequent occasion of apoplexy, and perhaps the occafion of all those apoplexies arising from internal causes.

MCII.

The lofs of fenfe and motion in particular parts of the body, may be occafioned by a compreffion, either of the origin of certain nerves only, or of the fame nerves in fome part of their courfe from the brain to the organs of fenfe and motion. Such cafes of partial compreffion will be more properly confidered hereafter ; and the affection I am now to treat of being general, it must depend upon a very general compression of the origin of the nerves, or medullary portion of the brain ; and therefore, this more general compression only is to be confidered here.

MCIII.

This compression of the origin of the nerves, or medullary portion of the brain, may be produced in different ways; as,

1. By external violence fracturing and preffing in a part of the cranium.

2. By tumours, fometimes foft, fometimes bony, formed in different parts of the brain, or in its membranes, and becoming of fuch a bulk as to compress the medullary fubflance of the brain.

3. By the blood accumulated in the bloodveffels of the brain, and diffending them to fuch a degree as to compress the medullary portion of the same.

4. By

OF PHYSIC.

4. By fluids effused in different parts of the brain, or into the cavity of the cranium, and accumulated in fuch quantity as to occafion the compression we treat of.

And, as to this last, it is to be remarked here, that the fluids effused may be of two kinds; that is, they may be either a portion of the common mass of blood, poured out from red veffels; or a portion of ferum or colourles fluid, poured out chiefly by exha-lants.

MCIV.

Of these feveral causes of compression, the first is not to be confidered here, because the removing it does not belong to our province; and the confideration of the fecond may be omitted, as in most inftances it is neither to be different nor cured by any means yet known. The third and fourth causes of compression, as they are the most frequent, and are also most properly the subjects of our art, fo they are those which deferve our particular attention; and we shall therefore endeavour to trace them further back in the feries of causes which may produce them.

MCV:

Both the ftates of over diftention and of effusion, may be produced by whatever increases the afflux and impetus of the blood in Vol. 2. 05 the

310

the arteries of the head; fuch as violent exercife, a violent fit of anger, external heat applied, or any flrong preffure upon the defcending aorta.

MCVI.

But both these ftates of over differition and of effusion, may also and seem to be more frequently produced by causes that operate by preventing the free return of the venous blood from the vessels of the head to the right ventricle of the heart.

MCVII.

The venous veffels of the brain are of a conformation and distribution fo peculiar, as lead us to believe, that Nature intended to retard the motion of the blood, and accumulate it in these veffels; and therefore, even very finall additional refiftances to the motion of the blood from these towards the right ventricle of the heart, may still more readily accumulate the blood in them. Such accumulation will most readily happen in advanced life, when the venous system in general is in a plethoric state, and when this plethora takes place especially in the venous veffels of the brain. It will, in like manner, be most apt to occur in perfons whole heads are large with respect to the rest of the body ; and in perfons of a short neck, which is unfavourable to the return of the venous blood from the head. The accumulation of blood in the venous veffels of the brain, will also be most likely to occur in perfons of a corpulent habit, either because these may be confidered to be in a plethoric state, or because obesity, by occasioning a compression of the bloodvessels in other parts of the body, more readily fills those of the brain, which are entirely free from any such compression.

MCVIII.

Thefe are the circumftances in the conflitution of the body, which, producing a flower motion and return of the venous blood from the veffels of the head, favour an accumulation and diftention in them; and we now proceed to mention the feveral occafional caufes, which, in every perfon, may directly prevent the free return of the blood from the veffels of the head towards the heart. Such are,

1. Stooping down with the head, or other fituations of the body in which the head is long kept in a depending flate, and in which the gravity of the blood increases the afflux of it by the arteries, and opposes the return of it by the veins.

2. A tight ligature about the neck, which compresses the veins more strongly than the arteries. 3. Any obstruction of a confiderable number of the veins carrying the blood from the head, and more effectially any confiderable obstruction of the alcending vena cava.

4. Any confiderable impediment of the free paffage of the blood from the veins into the right ventricle of the heart; and it is commonly by this, and the immediately preceding circumftance, that polypous concretions in the cava, or right ventricle, are found to occafion apoplexy.

5. The return of blood from the veins of the head towards the heart, is especially interrupted by every circumftance that produces a more difficult transmission of the blood through the veffels of the lungs. It is well known, that, at the end of every expiration, fome interruption is given to the free transmission of the blood through the lungs; and that this at the fame time gives an interruption to the motion of the blood from the veins into the right ventricle of the heart. This clearly appears from that regurgitation of the blood in the veins which occasions the alternate heaving and fubfiding that is perceived in the brain of living animals when the cranium is removed, and which is observed to be fynchronous with the alternate motions of respiration. From this we readily perceive, that whatever occasions a difficulty in the tranfmiffion of the blood through the lungs, muft alfo interrupt the free return of the venous blood from the veffels of the head; and muft therefore

therefore favour, and perhaps produce, an accumulation of blood, and an over differition in these vessels.

It is further to be observed, that as a very full infpiration, continued for any length of time, occasions fuch an interruption of the free transmission of the blood through the lungs, as produces a fuffution of face, and a manifest turgescence of the blood veffels of the head and neck; fo every full and long continued infpiration may occafion an accumulation of blood in the veffels of the head, to a very confiderable degree. Thus, as every ftrong exertion of the mulcular force of the body requires, and is attended with, a very full and long continued infpiration, we thence learn why the violent exertions of muscular force have been so often the immediate or exciting caufes of apoplexy.

It may alfo be remarked, that corpulency and obefity feem to operate very much, by occafioning a more difficult transmission of the blood through the veffels of the lungs. It appears, that in fat perfons, from the compreffion of the bloodveffels in many parts of the body, the veffels of the lungs are thereby kept very full; fo that upon the least increase of bodily motion, which fends the blood fasterinto the lungs, a more frequent and laborious respiration becomes in such perfons immediately necessary. This shows, that, in such perfons, the blood is not freely transmitted through the lungs; a circumstance which, as in in other inflances, must give a constant refist. ance to the return of blood from the vessels. of the head, and therefore favour or occasion an accumulation of blood in them.

Is the motion of the blood in the veffels of the head rendered flower by fludy, care, and anxiety?

MCIX.

It is to be observed further, that these feveral causes (MCV-MCVIII) of a preternatural fulness in the bloodvessels of the brain, may produce apoplexy in different ways, according as the fulness takes place in the arteries or in the veins.

MCX.

Accordingly, first, the increased afflux of blood into the arteries of the brain, and an increased action in these, may either occasion a rupture of their extremities, and thereby an effusion of red blood producing compression; or the same afflux and increased action may occasion an increased exhalation from their extremities, of a serous fluid, which, if not as quickly reabsorbed, may soon accumulate in fuch quantity as to produce compression.

MCXI.

Secondly, The plethoric state of the venous vessels of the brain, may operate in three different ways.

1. The fulnefs of the veins may give fuch refiftance to the blood flowing into them from the arteries, as to determine the impetus of the blood to be fo much greater upon the extremities of the arteries as to occafion a rupture of thefe, and confequently an effusion of red blood, or the *Hæmorrhagia cerebri*, which HOFFMAN confiders as a frequent caufe of apoplexy, and which we have before explained in DCCLXXII.

2. Whilft the fame refiftance to the blood flowing from the arteries into the veins, increafes the impetus of the blood in the former, this may, without occasioning rupture, increafe the exhalation from their exhalant extremities, and produce an effusion of a ferous fluid ; in the fame manner as fuch refiftance in the veins produces hydropic effusions in other parts of the body.

3. If we may suppose, as no lymphatics have been yet discovered in the brain, that the ordinary absorbents are not present there, and that the exhaled fluids are absorbed or taken up by the extremities of the veins; this will show still more clearly that a resultance to the motion of the blood in the veins of the brain, may readily produce an accumulation

PRACTICE

316

lation of ferous fluid in its cavities, and confequently a compression producing apoplexy.

MCXII.

Befides thefe cafes of apoplexy from afflux in the arteries, or refiftance in the veins, an effution of ferum may happen from two other caufes. The one is a relaxation of the exhalants, as in other cafes of hydropic diathefis prevailing in the body; and it is not unufual for a general dropfy to end in apoplexy. The fecond is an over proportion of watery parts in the mafs of blood, which is therefore ready to run off by the exhalants, as in the cafe of an ifchuria renalis; which when it proves incurable, very commonly terminates in apoplexy.

MCXIII.

We have now mentioned the feveral caufes of apoplexy depending upon compression; and from the whole it will appear, that the most frequent of all these causes is a plethoric flate, or an accumulation and congession of blood in the venous vessels of the head, operating, according to its degree, in producing over distention or effusion. The frequent operation of such a cause will especially appear from a consideration of the predisponent circumstances (MXCV), and from the antecedent symptoms (MXCVI).

MCXIV.

MCXIV.

From the view I have now given of the causes of apoplexy arising from compression, it will readily appear that there is a foundation for the common diffinction of this difeafe into the two kinds of Sanguine and Serous. But this diffinction cannot be very usefully applied in practice, as both kinds may often depend on the fame cause, that is, a venous plethora, and therefore requiring very nearly the fame method of cure. The only diffinction that can be properly made of apoplexies from compression, is perhaps the distinction of serous apoplexy, into that depending on the plethora mentioned MCXIII, and that depending upon hydropic diathefis or an over proportion of water in the blood (MCXII); the former caufes giving a proper idiopathic, the latter only a fymptomatic, difease.

MCXV.

Befide the caufes now mentioned, occafioning apoplexy by compression, I allege there are other causes producing the fame difease, by directly destroying the mobility of the nervous power. Such causes feem to be the mephitic air arising from fermenting liquors, and from many other sources; the fumes arising from burning charcoal; the fumes. fumes of mercury, of lead, and of fome other metallic fubftances; opium, alcohol, and many other narcotic poifons: To all which I would add the power of cold, of concuffion, of electricity, and of certain paffions of the mind.

MCXVI.

None of thefe poifons or noxious powers feem to kill by acting firft upon the organs of refpiration, or upon the fanguiferous fyftem; and I believe their immediate and direct action to be upon the nervous power, deftroying its mobility, becaufe the fame poifons fhow their power in deftroying the irritability of mufcles and of the nerves connected with them, when both thefe are entirely feparated from the reft of the body.

MCXVII.

It appears to me probable, that the apoplectic flate in fome degree accompanying, and almost always fucceeding, an epileptic paroxyfm, does not depend upon compreffion, but upon a certain flate of immobility of the nervous power, produced by certain circumflances in the nervous fystem itfelf, which fometimes feem to be communicated from one part of the body to another, and at length to the brain.

318

MCXVIII.

The fame obfervation may be made with refpect to many inftances of hyfteric paroxyfm; and the circumftances, both of epileptic and hyfteric paroxyfms, ending in coma, or a degree of apoplexy, lead me to think, that alfo the apoplexy proceeding from retrocedent or atonic gout is of the fame kind, or that it depends upon an immobility of the nervous power, rather than upon compression.

MCXIX.

It may indeed happen, that as the apoplectic and gouty predifpositions do often concur in the fame perfon; fo it may confequently happen, that the apoplexy coming upon gouty perfons, may fometimes depend upon compression; and diffections may, accordingly, difcover that the circumstances of fuch a cause had preceded.

But, in many cafes of apoplexy following a retrocedent or atonic gout, no fuch antecedent or concomitant circumftances, as commonly occur in cafes of compression, do distinctly or clearly appear; while others present themfelves, which point out an affection of the nervous power alone.

HIVX DI

319

MCXX.

With refpect, however, to the circumflances which may appear upon the diffection of perfons dead of apoplexy, there may be fome fallacy in judging, from those circumstances, of the cause of the difease. Whatever takes off or diminishes the mobility of the nervous power, may very much retard the motion of the blood in the veffels of the brain; and that perhaps to the degree of increafing exhalation, or even of occasioning rupture and effusion; fo that, in fuch cafes, the marks of compression may appear, upon diffection, though the difease had truly depended on causes deftroying the mobility of the nervous power. This feems to be illuftrated and confirmed from what occurs in many cafes of epilepfy. In fome of thefe, after a repetition of fits, recovered from in the ufual manner, a fatuity is induced, which commonly depends upon a watery inundation of the brain : And in other cafes of epilepfy, when fits have been often repeated without any permanent confequence, there happens at length a fatal paroxylm; and upon diffection it appears, that an effusion of blood had happened. This, I think, is to be confidered as a caufe of death, not as a caufe of the difeafe; for in fuch cafes, I suppose that the difease had diminished the action of the veffels of the brain, and thereby given occasion to a stagnation, which which produced the appearances mentioned. And I apprehend the fame reafoning will apply to the cafes of retrocedent gout, which, by deftroying the energy of the brain, may occafion fuch a ftagnation as will produce rupture, effufion, and death ; and in fuch a cafe, the appearances upon diffection might lead us to think that the apoplexy had depended entirely upon comprefion.

MCXXI.

The feveral caufes mentioned in MCXV, are often of fuch power as to occafion immediate death ; and therefore have not commonly been taken notice of as affording inflances of apoplexy ; but, as the operation of the whole of thefe caufes is fimilar and analogous, and as in moft inflances of the operation of thefe caufes an apoplectic flate is manifeftly produced, there can be little doubt in confidering moft of the inflances of their effects as cafes of apoplexy, and therefore fuch as fall properly under our confideration here,

MCXXII.

This difease of apoplexy is sometimes entirely recovered from; but more frequently it ends in death, or in a hemiplegia. Even when an attack of the difease is recovered from, we generally find it disposed to return; and the repeated attacks of it almost always, fooner

322 PRACTICE

fooner or later, bring on the events we have mentioned.

MCXXIII.

The feveral events of this difeafe, in health, death, or another difeafe, may be expected and forefeen from a confideration of the predifponent circumftances (MXCV); of the antecedent fymptoms (MXCVI); of the exciting caufes (MXCVIII); of the violence and degree of the fymptoms when the difeafe has come on (MXCIV); of the duration of the difeafe; and of the effects of the remedies employed.

MCXXIV.

From the great danger attending this difeafe when it has come on (MCXXII), it will readily appear, that our care should be chiefly directed to the prevention of it. This, I think, may be often done by avoiding the remote and exciting caufes; and how this may be accomplished, will be obvious from the enumeration of those causes given above (MXCVIII.) But it will also appear from what is faid above, that the prevention of this difease will especially depend upon obviating the predisponent cause ; which, in most cases, feems to be a plethoric state of the bloodveffels of the brain. This, I think, may be obviated by different means; and, in the first place,

place, by a proper management of exercife and diet.

MCXXV.

The exercife ought to be fuch as may fupport the perfpiration, without heating the body or hurrying refpiration; and, therefore, commonly by fome mode of geftation. In perfons not liable to frequent fits of giddinefs, and who are accuftomed to riding on horfeback, this exercife is, of all others, the beft. Walking, and fome other modes of bodily exercife, may be employed with the reftrictions juft now mentioned; but in old men, and in men of corpulent habits, bodily exercife ought always to be very moderate.

MCXXVI.

In perfons who pretty early in life flow the predifpofition to apoplexy, it is probable that a low diet, with a good deal of exercife, might entirely prevent the difeafe; but, in perfons who are advanced in life before they think of taking precautions, and are at the fame time of a corpulent habit, which generally fuppofes their having been accuftomed to full living, it might not be fafe to put them upon a low diet; and it may be enough that their diet be rendered more moderate than ufual, efpecially with refpect to animal food;

324

PRACTICE

food; and that, at supper, such food should be abstained from altogether.

In drinking, all heating liquors are to be abstained from, as much as former habits will allow; and the fmallest approach to intoxication is to be carefully fhunned. For ordinary draught, fmall beer is to be preferred to plain water, as the latter is more ready to occafion coftiveness, which in apoplectic habits is to be carefully avoided. The large use of tobacco in any shape, may be hurtful; and except in cafes where it has been accustomed to occasion a copious excretion from the head, the interruption of which might not be fafe, the use of tobacco should be avoided; and even in the circumstance mentioned, where it may be in some measure necessary, the use of it should at least be rendered as moderate as poffible.

MCXXVII.

Evacuations by flool may certainly contribute to relieve the plethoric state of the veffels of the head ; and, upon an appearance of any unufual furgescence in these, purging will be very properly employed: But, when no fuch turgescence appears, the frequent repetition of large purging might weaken the body too much ; and, for preventing apoplexy, it may for the most part be enough to keep the belly regular, and rather open, by gentle laxatives. In the fummer

fummer seafon, it may be useful to drink, every morning, of a gentle laxative mineral water, but never in large quantity.

MCXXVIII.

In the cafe of a plethoric state of the syltem, it might be fupposed that bloodletting would be the most effectual means of diminishing the plethora, and of preventing its confequences : And, when an attack of apoplexy is immediately threatened, bloodletting is certainly the remedy to be depended upon ; and blood should be taken largely, if it can be done, from the jugular vein, or temporal artery. But, when no threatening turgescence appears, the obviating plethora is not judicioufly attempted by bloodletting, as we have endeavoured to demonstrate above, DCCLXXXVII. In doubtful circumstances, leeches applied to the temples, or fcarifications of the hind head, may be more fafe than general bleedings.

MCXXIX.

When there are manifest fymptoms of a plethoric state in the vessels of the head, a feton, or pea issue, near the head, may be very useful in obviating any turgescence of the blood.

Vol. II.

P

MCXXX

325

MCXXX.

These are the means to be employed for preventing the apoplexy which might arise from a plethoric state of the vessels of the brain; and if, at the same time, great care is taken to avoid the exciting causes (MXCVIII), these means will be generally successful.

In the cafes proceeding from other caufes (MCXV), as their application is fo immediately fucceeded by the difeafe, they hardly allow any opportunity for prevention.

MCXXXI.

For the CURE of apoplexies from internal caufes, and which I fuppole to be chiefly those from compression, the usual violence and fatality of it require that the proper remedies be immediately and largely employed.

The patient is to be kept as much as poffible in fomewhat of an creft pofture, and in cool air; and therefore neither in a warm chamber, nor covered with bed clothes, nor furrounded with a crowd of people.

MCXXXII.

In all cafes of a full habit, and where the difeafe has been preceded by marks of a plethoric ftate, bloodletting is to be immediately employed, and very largely. In my opinion,

ion, it will be most effectual when the blood is taken from the jugular vein; but, if that cannot be properly done, it may be taken from the arm. The opening of the temporal artery, when a large branch can be opened, fo as fuddenly to pour out a confiderable quantity of blood, may also be an effectual remedy; but, in execution, it is more uncertain, and may be inconvenient. It may be in some measure supplied, by cupping and scarifying on the temples or hind head. This, indeed, should seldom be omitted; and these fcarifications are always preferable to the application of leeches.

With refpect to every mode of bloodletting, this is to be obferved, that when in any cafe of apoplexy, it can be perceived that one fide of the body is more affected with the lofs of motion than the other, the bloodletting, if poffible, fhould be made on the fide oppofite to that most affected.

MCXXXIII.

hed blothes nor

Another remedy to be employed is purging, to be immediately attempted by acrid glyfters; and at the fame time, if any power of fwallowing remain, by draftic purgatives given by the mouth, Thefe, however, left they may excite vomiting, fhould be given in divided portions at proper intervals. 328

MCXXXIV.

Vomiting has been commended by fome practitioners and writers : But, apprehending that this might impel the blood with too much violence into the veffels of the head, I have never employed it.

MCXXXV.

Another remedy to be immediately employed is bliftering; and I judge that this is more effectual when applied to the head, or near to it, than when it is applied to the lower extremities. This remedy I do not confider as a ftimulant, or capable of making any confiderable revultion : But, applied to the head, I fuppofe it ufeful in taking off the hemorrhagic difpolition fo often prevailing there.

MCXXXVI.

It has been ufual with practitioners, together with the remedies already mentioned, to employ flimulants of various kinds: But I am disposed to think them generally hurtful; and they must be so, wherever the fulness of the vessels, and the impetus of the blood in these, is to be diminissed. Upon this principle it is therefore agreed, that flimulants are absolutely improper in what is supposed

poled to be a fanguine apoplexy; but they are commonly supposed to be proper in the If, however, we be right in alleging ferous. that this also commonly depends upon a plethoric state of the bloodvessels of the brain, stimulants must be equally improper in the one cafe as in the other.

MCXXXVII

It may be argued from the almost universal employment of flimulants, and fometimes with feeming advantage, that they may not be fo hurtful as my notions of the caufes of apoplexy lead me to suppose. But this argument is, in feveral respects, fallacious; and particularly in this, that in a difease which, under every management, often proceeds fo quickly to a fatal termination, the effects of remedies are not to be eafily ascertained.

MCXXXVIII.

I have now mentioned the feveral remedies which I think adapted to the cure of apoplexy arifing from compression, and should next proceed to treat of the cure of apoplexy. arifing from those causes that directly deftroy the mobility of the nervous power. But many of those causes are often so powerful, and thereby fo fuddenly fatal in their effects, as hardly to allow of time for the use of remedies; and fuch cafes therefore have been fofeldom P 3

329

palar,

PRACTICE

330

feldom the fubjects of practice, that the proper remedies are not fo well afcertained as to enable me to fay much of them here.

MCXXXIX.

When, however, the application of the causes (MCXV) is not fo powerful as immediately to kill, and induces only an apoplectic flate, fome efforts are to be made to obviate the confequences, and to recover the patient; and even in some cases where the causes referred to, from the ceafing of the pulle and of refpiration, and from a coldness coming upon the body, have induced an appearance of death; yet, if these appearances have not continued long, there may be means of recovering the perfons to life and health. I cannot, indeed, treat this fubject completely; but for the cure of apoplexy from feveral of the caufes mentioned MCXV, fhall offer the following general directions.

1. When a poifon capable of producing apoplexy has been recently taken into the ftomach, if a vomiting fpontaneoufly arifes, it is to be encouraged; or, if it does not fpontaneoufly come on, a vomiting is to be immediately excited by art, in order that the poifon may be thrown out as quickly as poffible. If, however, the poifon has been taken into the ftomach long before its effects have appeared, we judge that, upon their appearance,

ance, the exciting of vomiting will be ufelefs, and may perhaps be hurtful.

2. When the poilon taken into the flomach, or otherwife applied to the body, has already induced an apoplectic flate, 'as those causes do commonly at the same time occafion a stagnation or flower motion of the blood in the vessels of the brain and of the lungs, so it will generally be proper to relieve this congession by taking some blood from the jugular vein, or from the veins of the arm.

3. Upon the fame fupposition of a congestion in the brain or lungs, it will generally be proper to relieve it by means of acrid glysters producing some evacuation from the intestines.

4. When these evacuations by bloodletting and purging have been made, the various stimulants which have been commonly proposed in other cases of apoplexy, may be employed here with more probability and safety. One of the most effectual means of rousing apoplectics of this kind seems to be throwing cold water on several parts of the body, or washing the body all over with it.

5: Although the poifon producing apoplexy happens to be fo powerful as very foon to occafion the appearances of death above mentioned; yet if this ftate has not continued long, the patient may often be recoverable; and the recovery is to be attempted P_4 by

PRACTICE

332

by the fame means that are directed to be employed for the recovery of drowned perfons, and which are now commonly known

then the veries of the brance and the in

tonet mond and the tone blown tents

vilens for an and as hand a far and a sold of the property of the orthogon an analy of

Stort Strate States States The state State of the

with 'defit has had a set and a the had been the lange and an entry that to manage the

had the state of the state of a paper of the state salah pan ani and and owner all a arrest hand

THE PARTY OF THE PARTY STREET, STREET,

the tellinesting could water mail leveral matter of

Applique inter molican producing mon

and share have the second and the second

WHITE THE PARTY OF THE WAR WITH THE PARTY IN THE PARTY OF THE

- TATER AND THE THE THE THE THE CARE AND A THE AND A THE

13454

- Hittory Fred Line Part And the Cart Strate and

the raise of from the vine vine

THE ROAD AND THE ARE CONDING.

F PHYSIC.

C H A P: II,

OF PALSY.

MCXL ...

PALSY is a difease confisting in a loss of the power of voluntary motion, but affecting certain parts of the body only, and by this it is diffinguished from apoplexy (MXCIV). One of the most frequent forms of palfy is when it affects the whole of the muscles on one fide of the body; and then the difease is named a Hemiplegia.

MCXLI.

The lofs of the power of voluntary motion may be owing either to a morbid affection of the mufcles or organs of motion, by which they are rendered unfit for motion; or to an interruption of the influx of the nervous power in-Vol. 2. P 5 to 334

to them, which is always neceffary to the motions of those that are under the power of the will. The difease, from the first of these causes, as confisting in an organic and local affection, we refer entirely to the class of local difeafes. I am here to confider that difeafe only which depends upon the interrupted influx of the nervous power; and it is to this difease alone I would give the appellation of Palfy. A difease depending on an interrupted influx of the nervous power, may indeed often appear as merely a local affection ; but as it depends upon an affection of the most general powers of the fystem, it cannot be properly separated from the systematic affections.

MCXLII.

was soot bolly to stand

In palfy, the lofs of motion is often accompanied with a lofs of fenfe: But as this is not conftantly the cafe, and as therefore the lofs of fenfe is not an effential fymptom of palfy, I have not taken it into my definition (MCXL); and I fhall not think it neceffary to take any further notice of it in this treatife; becaufe, in fo far as it is in any cafe a part of the paralytic affection, it must depend upon the fame caufes, and will be cured alfo by the very fame remedies, as the lofs of motion.

the the secon (ht sec. +) cand is preceded by the

MCXLIII.

MCXLIII.

The pally then, or loss of motion, which is to be treated of here, may be diffinguished as of two kinds; one of them depending upon an affection of the origin of the nerves in the brain, and the other depending upon an affection of the nerves in fome part of their course between the brain and the organs of motion. Of the latter, as appearing in a very partial affection, I am not to fpeak particularly here; I fhall only treat of the more general paralytic affections, and especially of the hemiplegia (MCXL). At the fame time I expect, that what I shall fay upon this fubject will readily apply to both the pathology and practice in the cafes of affections more. limited.

MCXLIV.

The hemiplegia (MCXL) ufually begins with, or follows, a paroxylm of apoplexy; and when the hemiplegia, after fubfifting for fome time, becomes fatal, it is commonly by paffing again into the flate of apoplexy. The relation therefore or affinity between the two difeafes, is fufficiently evident; and is further ftrongly confirmed by this, that the hemiplegia comes upon perfons of the fame conflitution (MXCV), and is preceded by the P 6 fame

336 PRACTICE

fame fymptoms (MXCVIII), that have been taken notice of with refpect to apoplexy.

MCXLV.

When a fit of apoplexy has gone off, and there remains a flate of palfy appearing as a partial affection only, it might perhaps be fuppofed that the origin of the nerves is in a great meafure relieved; but in fo far as commonly there ftill remain the fymptoms of the lofs of memory, and of fome degree of fatuity, thefe, I think, fhow that the organ of intellect, or the common origin of the nerves, is ftill confiderably affected.

MCXLVI.

Thus, the hemiplegia, from its evident connexion with, and near relation to apoplexy, may be properly confidered as depending upon like caufes; and confequently, either upon a compression preventing the flow of the nervous power from the brain into the organs of motion, or upon the application of narcotic or other powers (MCXV) rendering the nervous power unfit to flow in the usual and proper manner.

MCXLVII.

We begin with confidering the cafes depending upon compression.

The

The compression occasioning hemiplegia may be of the same kind, and of all the different kinds that produce apoplexy; and therefore either from tumour, over distention, or effusion. The existence of tumour giving compression, may often be better discerned in the case of palsy than in that of apoplexy, as its effects often appear at first in a very partial affection.

MCXLVIII.

The other modes of compression, that is, of over distention and effusion, may, and commonly do, take place, in hemiplegia; and when they do, their operation here differs from that producing apoplexy, by its effects being partial, and on one fide of the body only.

It may feem difficult to conceive that an over diffention can take place in the veffels on one fide of the brain only; but it may be underftood : And in the cafe of a palfy which is both partial and transitory, it is perhaps the only condition of the veffels of the brain that can be fuppofed. In a hemiplegia, indeed, which fubfifts for any length of time, there is probably always an effusion, either fanguine or ferous : But it is likely that even the latter must be fupported by a remaining congestion in the bloodveffels.

1. Ball

337

Live and the state and an an and the state

338

MCXLIX.

That a fanguine effusion can happen without becoming very foon general, and thereby occasioning apoplexy and death, may also feem doubtful: But diffections prove that in fact it does happen occasioning palfy only; though it is true, that this more commonly depends upon an effusion of ferous fluid, and of this only.

MCL.

The solid modes of an prelivery dubie to co

Can a palfy occasioned by a compress fion remain, though the compression be removed?

MCLI.

From what has been faid MCXLIV, it will be obvious, that the hemiplegia may be prevented by all the feveral means proposed MCXXV et feq. for the prevention of apoplexy.

MCLII.

Upon the fame grounds, the CURE of palfy must be very much the fame with that of apoplexy (MCXXX et feq.); and when palfy has begun as an apoplexy, it is prefumed, that, before it is to be confidered as palfy, all

all those several remedies have been employed. Indeed, even when it happens that on the first attack of the difease the apoplectic state is not very complete, and that the very first appearance of the difease is as a hemiplegia, the affinity between the two difeafes. (MCXLIV) is fuch as to lead to the fame remedies in both cafes. This is certainly proper in all those cases in which we can with much probability impute the difease to compreffion ; and it is indeed feldom that a hemiplegia from internal causes comes on but with a confiderable affection of the internal, and even of the external fenses, together with other marks of a compression of the origin of the nerves.

MCLIII.

Not only, however, where the difeafe can be imputed to compression, but even where it can be imputed to the application of narcotic powers, if the difease come on with the appearances mentioned at the end of last paragraph, it is to be treated in the same manner as an apoplexy by MCXXXI— MCXXXIX.

MCLIV.

The cure of hemiplegia, therefore, on its first attack, is the fame, or very nearly the fame, 340

fame, with that of apoplexy: And it feems requifite that it fliould be different only, 1. When the difeafe has fubfifted for fome time; 2. When the apoplectic fymptoms, or thofe marking a confiderable compression of the origin of the nerves, are removed; and particularly, 3. When there are no evident marks of compression, and it is at the fame time known that narcotic powers have been applied.

MCLV.

In all these cases, the question arifes, Whether ftimulants may be employed, or how far the cure may be entirely trufted to. fuch remedies? Upon this question, with respect to apoplexy, I have offered my opinion in MCXXXVI. And, with respect to hemiplegia, I am of opinion, that flimulants are almost always equally dangerous as in the cafes of complete apoplexy ; and particularly, 1. In all the cafes of hemiplegia fucceeding to a paroxyim of complete apoplexy; 2. In all the cafes coming upon perfons of the temperament mentioned in MXCV, and after the fame antecedents as those of apoplexy (MCXVI); and, 3. In all the cafes coming on with symptoms of apoplexy from compreffion.

MCLVI.

It is, therefore, in the cafes MCLIV only, that flimulants are properly admiffible : And even in the two first of these cases, in which a plethoric state of the bloodvesses of the brain may have brought on the disease, in which a disposition to that state may still continue, and in which even some degree of congession may ftill remain, the use of stimulants must be an ambiguous remedy ; so that perhaps it is in the third of these cases only that stimulants are clearly indicated and admisses.

MCLVII.

These doubts with respect to the use of ftimulants, may perhaps be overlooked or disregarded by those who allege that ftimulants have been employed with advantage, even in those cases (MCLV) in which I have faid they ought to be avoided.

MCLVIII.

To compromife this contrariety of opinion, I must observe, that even in the cases of hemiplegia depending upon compression, although the origin of the nerves be so much compressed as to prevent so full a flow of the nervous power as is necessary to muscular motion, yet it it appears from the power of fenfe ftill remaining, that the nerves are, to a certain degree, ftill pervious ; and therefore it is poffible that ftimulants applied, may excite the energy of the brain fo much, as in fome meafure to force open the compressed nerves, and to show fome return of motion in paralytic muscles. Nay, further, it may be allowed, that if these stimulants be such as allowed, that if these stimulants be fuch as allowed, that if these stimulants be such as allowed, that if these stimulants be such as allowed, upon the nervous than upon the fanguiserous fystem, they may possibly be employed without any very hurtful consequence.

MCLIX.

But still it will be obvious, that although certain stimulants act chiefly upon the nervous system, yet they also act always in some measure upon the sanguiferous; so that, when they happen to have the latter effect in any confiderable degree, they may certainly do much harm; and in a disease which they do not entirely cure, the mischief arising from them may not be discerned.

MCLX.

I. TIVIDI

Whilft the employment of ftimulants is fooften an ambiguous practice, we may perhaps go fome length towards afcertaining the matter, by confidering the nature of the feveral ftimulants which may be employed, and fome of

of the circumstances of their administration. With this view, therefore, I shall now mention the several stimulants that have been commonly employed, and offer some remarks upon their nature and use.

MCLXI.

They are in the first place to be distinguished as external or internal. Of the first kind, we again distinguish them as they are applied to particular parts of the body only, or as they are more generally applied to the whole system. Of the first kind are,

1. The concentrated acids of vitriol or nitre; involved, however, in oily or uncluous fubftances, which may obviate their corrofive, without deftroying their flimulant power.

2. The volatile alkaline fpirits, especially in their caustic state; but involved also in oils, for the purpose just now mentioned.

3. The fame volatile fpirits are frequently employed by being held to the nofe, when they prove a powerful ftimulus to the nervous fyftem; but it is at the fame time probable, that they may also prove a ftrong ftimulant to the bloodveffels of the brain.

4. A brine, or ftrong folution of fea falt.

5. The effential oils of aromatic plants, or of their parts.

6. The effential oils of turpentine, or of other fuch refinous substances. 7. The 344

7. The diffilled oils of amber, or of other bituminous foffils.

8. The rectified empyreumatic oils of animal or vegetable substances.

9. Various vegetable acrids, particularly muftard.

10. The acrid matter found in feveral infects, particularly cantharides.

Some of these ftimulants may be either applied in substance; or may be diffolved in ardent spirits, by which their stimulant power may be increased, or more conveniently applied.

MCLXII.

The greater part of the fubftances now enumerated flow their flimulant power by inflaming the fkin of the part to which they are applied; and when their application is fo long continued as to produce this effect, it interrupts the continuance of their ufe; and the inflammation of the part does not feem to do fo much good as the frequent. repetition of a more moderate flimulus.

MCLXIII.

Analogous to these stimulants is the stinging of nettles, which has been frequently commended.

Among the external ftimulants, the mechanical one of friction with the naked hand, the

the flesh brush, or flannel, is justly to be reckoned. Can the impregnation of the flannels to be employed, with the fumes of burning massic, olibanum, &c. be of any fervice?

MCLXIV.

With refpect to the whole of these external flimulants, it is to be observed, that they affect the part to which they are applied much more than they do the whole system, and they are therefore indeed faser in ambiguous cases; but, for the same reason, they are of less efficacy in curing a general affection.

MCLXV.

The external applications which may be applied to affect the whole fystem, are the powers of heat and cold, and of electricity.

Heat, as one of the moft powerful fiimulants of the animal economy, has been often employed in palfies, efpecially by warm bathing. But as, both by flimulating the folids and rarefying the fluids, this proves a flrong flimulus to the fanguiferous fyftem, it is often an ambiguous remedy; and has frequently been manifeftly hurtful in palfies depending upon a congestion of blood in the vessels of the brain. The most certain, and therefore the most proper use of warm bathing in palfies, feems to be in those that have been occasioned cafioned by the application of narcotic powers. Are the natural baths more useful by the matters with which they may be naturally impregnated ?

MCLXVI.

Cold applied to the body for any length of time, is always hurtful to paralytic perfons; but if it be not very intenfe, nor the application long continued, and if at the fame time the body be capable of a brifk reaction, fuch an application of cold is a powerful ftimulant of the whole fystem, and has often been useful in curing palfy. But, if the power of reaction in the body be weak, any application of cold may prove very hurtful.

MCLXVII.

Electricity, in a certain manner applied, is certainly one of the moft powerful flimulants that can be employed to act upon the nervous fyftem of animals; and therefore much has been expected from it in the cure of palfy. But, as it flimulates the fanguiferous as well as the nervous fyftem, it has been often hurtful in palfies depending upon a compreffion of the brain; and efpecially when it has been fo applied as to act upon the veffels of the head. It is fafer when its operation is confined to particular parts fomewhat remote from the head; and, further, as the operation

of electricity, when very firong, can deftroy the mobility of the nervous power, I am of opinion, that it is always to be employed with caution, and that it is only fafe when applied with moderate force, and when confined to certain parts of the body remote from the head. It is alfo my opinion, that its good effects are to be expected from its repetition rather than from its force, and that it is particularly fuited to the cure of those palfies which have been produced by the application of narcotic powers.

MCLXVIII. I Manualumet

Amongft the remedies of palfy, the ufe of exercife is not to be omitted. In a hemiplegia, bodily exercife cannot be employed; and in a more limited affection, if depending upon a compression of some part of the brain, it would be an ambiguous remedy: But, in all cafes where the exercises of gestation can be employed, they are proper; as, even in cafes of compression, the stimulus of such exercise is moderate, and therefore safe; and, as it always determines to the surface of the body, it is a remedy in all cases of internal congestion.

MCLXIX.

The internal stimulants employed in palfy are various, but chiefly the following. 1. The

347

DECESSION.

DENTIS INC. MARKENI

1. The volatile alkaline falts, or fpirits, as they are called, are very powerful and diffufive flimulants, operating efpecially on the nervous fyftem; and even although they operate on the fanguiferous, yet, if given in frequently repeated fmall rather than in large dofes, their operation being transitory, is tolerably fafe.

2. The vegetables of the clafs named Tetradynamia, are many of them powerful diffufive flimulants; and at the fame time, as quickly paffing out of the body, and therefore of transitory operation, they are often employed with fafety. As they commonly prove diuretic, they may in this way also be of fervice in fome cases of ferous palfy.

3. The various aromatics, whether employed in fubftance, in tincture, or in their effential oils, are often powerful flimulants; but being more adhefive and inflammatory than those last mentioned, they are therefore, in all ambiguous cases, less fase.

4. Some other acrid vegetables have been employed; but we are not well acquainted with their peculiar virtues, or proper use.

5. Some refinous fubftances, as guaiacum, and the terebinthinate fubftances, or their effential oils, have been, with fome probability, employed; but they are apt to become inflammatory. Decoctions of guaiacum, and fome other fudorifics, have been directed to excite fweating by the application of the fumes of burning fpirit of wine in the laconicum,

348

349

conicum, and have in that way been found uleful.

6. Many of the fetid antifpafmodic medicines have been frequently employed in palfy; but I do not perceive in what manner they are adapted to the cure of this difeafe, and I have not obferved their good effects in any cafes of it.

7. Bitters, and the Peruvian bark, have alfo been employed; but with no propriety or advantage that I can perceive.

MCLXX.

With refpect to the whole of these internal ftimulants, it is to be observed, that they feldom prove very powerful; and wherever there is any doubt concerning the nature or ftate of the disease, they may readily do harm, and are often therefore of ambiguous use.



BOOK II.

it vats it

all here c

OF ADYNAMIÆ, OR DISEASES CON-SISTING IN A WEAKNESS OR LOSS OF MOTION IN EITHER THE VITAL OR NATURAL FUNCTIONS.

CHAP. I.

resided or interestately

es an cradualty : and in the latter

ST SYNCOPE, OR FAINTING.

MCLXXI.

toms, the puile and refugation become

THIS is a difease in which the action of the heart and respiration become confiderably weaker than usual, or in which for a certain time these functions cease altogether.

MCLXXII:

Printy (

MCLXXII.

Phyficians having observed that this affection occurs in different degrees, have endeavoured to diffinguish these by different appellations: But as it is not possible to afcertain these different degrees with any precision, so there can be no first propriety in employing those different names; and I shall here comprehend the whole of the affections of this kind under the title of Syncope,

JATIV BHT MOLXXIII. TOM TO

This difease sometimes comes on fuddenly to a confiderable degree, but fometimes also it comes on gradually; and in the latter cafe, it ufually comes on with a fense of languor, and of anxiety about the heart, accompanied at the fame time, or immediately after, with fome giddinefs, dimnefs of fight, and founding in the ears. Together with these fymptoms, the pulse and respiration become weak ; and often fo weak, that the pulle is fcarcely to be felt, or the refpiration to be perceived ; and fometimes these motions; for a certain time, ceafe altogether. While these fymptoms take place, the face and whole furface of the body become pale, and more or lefs cold alaccording to the degree and duration of the paroxysm. Very commonly, at the beginning of this, and during its continuance, a cold

cold fweat appears, and perhaps continues, on the forehead, as well as on fome other parts of the body. During the paroxyfm, the animal functions, both of fenfe and motion, are always in fome degree impaired, and very often entirely fulpended. A paroxyfm of fyncope is often, after fome time, fpontaneoufly recovered from ; and this recovery is generally attended with a fenfe of much anxiety about the heart.

Fits of fyncope are frequently attended with, or end in, vomiting; and fometimes with convultions, or an epileptic fit.

MCLXXIV.

These are the phenomena in this diseafe : and from every view of the greatest part of them, there cannot be a doubt that the proximate cause of this disease is a very weak or a total ceasing of the action of the heart. But it will be a very difficult matter to explain in what manner the several remote causes operate in producing the proximate cause. This, however, I shall attempt, though with that diffidence which becomes me in attempting a subject that has not hitherto been treated with much succes.

and a minor * MCLXXIV.

The remote caufe of fyncope may, in the first place, be referred to two general heads. The

352

353

The one is, of those causes existing and acting in the brain, or in parts of the body remote from the heart, but acting upon it by the intervention of the brain. The other general head of the remote causes of syncope, is of those existing in the heart itself, or in parts very immediately connected with it, and thereby acting more directly upon it in producing this difease.

with convultonia or an anne the formetanes

of dista wincome and incomently anended

In entering upon the confideration of the first fet of those causes (MCLXXIV), I must affume a proposition which I suppose to be fully eftablished in Physiology. It is this: That, though the mulcular fibres of the heart be endowed with a certain degree of inherent power, they are still, for fuch action as is neceffary to the motion of the blood, very constantly dependent upon a nervous power fent into them from the brain. At least this is evident, that there are certain powers acting primarily, and perhaps only in the brain, which influence and varioufly modify the action of the heart. I suppose, therefore, a force very conftantly during life exerted in the brain, with refpect to the moving fibres of the heart, as well as of every part of the body; which force I shall call the Energy of the Brain; and which I fuppole may be, on different Q 3

PRACTICE

354

different occafions, stronger or weaker with respect to the heart.

by the arteries **IVXXIOM** be return of it by the veins, preferves the modility fainch

Admitting these propositions, it will be obvious, that if I can explain in what manner the first set of remote causes (MCLXXIV) diminish the energy of the brain, I shall at the fame time explain in what manner these causes occasion a syncope.

occation a funce.IIVXXXIOM I explain the

To do this, I observe, that one of the most evident of the remote caufes of fyncope is a hemorrhagy, or an evacuation of blood, whether fpontaneous or artificial. And as it is very manifest that the energy of the brain depends upon a certain fulnels and tenfion of its bloodveffels, for which nature feems to have industrioufly provided by fuch a conformation of those bloodveffels as retards the motion of the blood both in the arteries and veins of the brain; fo we can readily perceive, that evacuations of blood, by taking off the fulnefs and tenfion of the bloodveffels of the brain, and thereby diminishing its energy with refpect to the heart, may occasion a fyncope. In many perfons, a small evacuation of blood will have this effect; and in fuch cafes there is often a clear proof of the manner in which the caufe operates, from this circumstance, cumftance, that the effect can be prevented by laying the body in a horizontal pofture ; which, by favouring the afflux of the blood by the arteries, and retarding the return of it. by the veins, preferves the neceffary fulnefs of the veffels of the brain.

It is farther to be remarked here, that not only an evacuation of blood occasions fyn-. cope, but that even a change in the diffribution of the blood, whereby a larger portion of it flows into one part of the fystem of bloodveffels, and confequently lefs into others, may occasion a syncope. It is thus I explain the fyncope that readily occurs upon the evacuation of hydropic waters, which had before filled the cavities of the abdomen or thorax. It is thus also I explain the fyncope that fometimes happens on bloodletting, but which does not happen till the ligature which had been employed is untied, and admits a larger afflux of blood into the bloodveffels of the arm. Both these cases of fyncope show, that an evacuation of blood does not always occafion the difeafe by any general effect on the whole fystem, but often merely by taking off. the requisite fulness of the bloodvessels of the brain. the futurels and tenfround the bla

MCLXXVIII.

The operation of fome others of the remotecaules of fyncope, may be explained on the following principles. Whilft the energy of Q 4 the: the brain is, upon different occasions, manifeftly fironger or weaker, it feems to be with this condition, that a fironger exertion of it is neceffarily followed by a weaker flate of the fame. It feems to depend upon this law in the conflitution of the nervous power, that the ordinary contraction of a mufcle is always alternated with a relaxation of the fame; that, unlefs a contraction proceeds to the degree of fpafm, the contracted flate cannot be long continued: And it feems to depend upon the fame caufe that the voluntary motions, which always require an unufual increase of exertion, occasion fatigue, debility, and at length irrefisible fleep.

From this law, therefore, of the nervous power, we may understand, why a fudden and violent exertion of the energy of the brain is fometimes followed by fuch a diminution of it as to occasion a fyncope; and it is thus I suppose that a violent fit of joy produces fyncope, and even death. It is upon the fame principle alfo, I fuppofe, that an exquifite pain may fometimes excite the energy of the brain more strongly than can be supported, and is therefore followed by fuch a diminution as must occasion fainting. But the effect of this principle appears more clearly in this, that a fainting readily happens upon the fudden remiffion of a confiderable pain; and thus I have feen a fainting occur upon the reduction of a painful diflocation.

1.6.7

MCLXXXI

356

MCLXXIX:

necedarity for any a new grant to

longth investigation and and

the bear is much will seen oncelicate, mant

It feems to be quite analogous when a fyncope immediately happens on the finishing of any great and long continued effort, whether depending on the will, or upon a propensity; and in this way a fainting fometimes happens to a woman on the bearing of a child. This may be well illustrated by observing, that in perfons already much weakened, even a very moderate effort will fometimes occasion fainting.

monter the man content and when a fidden

and mount excinent of the energy of the

To explain the operation of fome other caufes of fyncope, it may be obferved, that as the exertions of the energy of the brain are especially under the influence of the will, fo it is well known that those modifications of the will which are named Passions and Emotions, have a powerful influence on the energy of the brain in its actions upon the heart, either in increasing or diminishing the force of that energy. Thus, anger has the former, and fear the latter effect; and thence it may be understood how terror often occasions a fyncope fometimes of the most violent kind, named Alphyxia, and fometimes death itself.

VOL. 2.

mart T. Seral

Q.5

MCLXXXI.

TOTA PARTY PALATE

358 PRACTICE

luch may eithe. IXXXJOM in the mals of blood, and thereor communicated to the

tioned, act by a directly fedative power' And

As, from what I have juft mentioned, it appears, that the emotions of defire increase, and those of averfion diminish, the energy of the brain; so it may be understood, how a strong averfion, a horror, or the feeling which arises upon the fight of a very disagreeable object, may occasion fainting. As an example of this, I have known more than one instance of a person's fainting at the fight of a fore in another person.

To this head of horror and difguft, I refer the operation of those odours which in certain perfons occasion fyncope. It may be supposed, that those odours are endowed with a directly sedative power, and may thereby occasion fyncope; but they are, many of them, with respect to other perfons, evidently of a contrary quality: And it appears to me, that those odours occasion fyncope only in those perfons to whom they are extremely difagreeable.

MCLXXXIII.

It is, however, very probable, that among the caufes of fyncope, there are fome which, analogous to all those we have already mentioned,

tioned, act by a directly fedative power : And fuch may either be diffufed in the mafs of blood, and thereby communicated to the brain ; or may be only taken into the ftomach, which fo readily and frequently communicates its affections to the brain.

MCLXXXIV.

Having now enumerated, and, as I hope, explained, the most part of the remote causes of fyncope, that either operate immediately upon the brain, or whose operation upon other parts of the body is communicated to the brain, it is proper to observe, that the most part of these causes operate upon certain perfons more readily and more powerfully than upon others; and this circumstance, which may be confidered as the predisponent cause of fyncope, deferves to be inquired into.

It is, in the first place, obvious, that the operation of fome of those causes depends entirely upon an idiolyncrafy in the perfons upon whom they operate; which, however, I cannot pretend to explain. But, in the next place, with respect to the greater part of the other causes, their effects seem to depend upon a temperament which is in one degree or other in common to many perfons. This temperament feems to confiss in a great degree of fensibility and mobility, arising from a state of debility, fometimes depending upon $Q_1 G_1$

359

360

original conformation, and fometimes produced by accidental occurrences in the courfe of life.

MCLXXXV.

The fecond fet of the remote caufes of fyncope (MCLXXIV), or those acting directly upon the heart itself, are certain organic affections of the heart itself, or of the parts immediately connected with it, particularly the great veffels which pour blood into or immediately receive it from the cavities of the Thus a dilatation or aneurism of the heart. heart, a polypus in its cavities, absceffes or ulcerations in its substance, a close adherence of the pericardium to the furface of the heart, aneurisms of the great veffels near to the heart, polypus in thefe, and offifications in these or in the valves of the heart, are one or other of them conditions which, upon diffection, have been discovered in those persons who had before laboured under frequent fyncope. 11/22230

MCLXXXVI.

It is obvious, that these conditions are all of them, either such as may, upon occasion, disturb the free and regular influx into, or the free egress of the blood from, the cavities of the heart; or such as may otherwise disturb its regular action, by sometimes interrupting

rupting it, or fometimes exciting it to more violent and convulfive action. The latter is what is named the Palpitation of the Heart, and it commonly occurs in the fame perfons who are liable to fyncope.

MCLXXXVII.

It is this, as I judge, that leads us to perceive in what manner thefe organic affections of the heart and great veffels may occafion fyncope : For it may be fuppofed, that the violent exertions made in palpitations may either give occafion to an alternate great relaxation (MCLXXVIII), or to a fpafmodic contraction; and in either way fufpend the action of the heart, and occafion fyncope. It feems to me probable, that it is a fpafmodic contraction of the heart that occafions the intermiffion of the pulfe fo frequently accompanying palpitation and fyncope.

MCLXXXVIII.

Though it frequently happens that palpitation and fyncope arife, as we have faid, from the organic affections above mentioned, it is proper to obferve, that these difeases, even when in a violent degree, do not always depend on such causes acting directly on the heart, but are often dependent on some of those those causes which we have mentioned above as acting primarily on the brain.

362

Stanty.

MCLXXXIX.

I have thus endeavoured to give the pathology of fyncope; and of the cure I can treat very fhortly.

The cafes of fyncope depending on the fecond fet of caufes (MCLXXIV), and fally recited in MCLXXXV, I fuppofe to be generally incurable; as our art, fo far as I know, has not yet taught us to cure any one of those feveral caufes of fyncope (MCLXXXV).

The cafes of fyncope depending on the firft fet of caufes (MCLXXIV), and whofe operation I have endeavoured to explain in MCLXXVII et feq. I hold to be generally curable, either by avoiding the feveral occafional caufes there pointed out, or by correcting the predifponent caufes (MCLXXXIV). The latter, I think, may generally be done by correcting the debility or mobility of the fyftem, by the means which I have already had occafion to point out in another place.

endary and twops has shires (say to the formp-

toms approx meansured are alight rough which

CHAP.

CHAP. II.

OF DYSPEPSIA, OR INDIGESTION.

fecond fei es cautes vie i and fully reented ist MCL. Nor State in the state to be gencrally incurable : .OXOM

A WANT of appetite, a fqueamifhnefs, fometimes a vomiting, fudden and transient distentions of the stomach, eructations of various kinds, heartburn, pains in the region of the stomach, and a bound belly, are symptoms which frequently concur in the fame perfon, and therefore may be prefumed to depend upon one and the same proximate cause. In both views, therefore they may be confidered as forming one and the fame difease, to which we have given the appellation of Dyspepsia, fet at the head of this chapter.

MCXCI.

But as this difeafe is alfo frequently a fecondary and fympathic affection, fo the fymptoms above mentioned are often joined with many 364

many others; and this has given occasion to a very confused and undetermined description of it, under the general title of Nervous Diseases, or under that of Chronic Weakness. It is proper, however, to diftinguish; and I apprehend the symptoms enumerated above are those effential to the idiopathic affection I am now to treat of.

MCXCII.

It is indeed to be particularly obferved, that thefe fymptoms are often truly accompanied with a certain ftate of mind which may be confidered as a part of the idiopathic affection : But I fhall take no further notice of this fymptom in the prefent chapter, as it will be fully and more properly confidered in the next, under the title of Hypochondriafis.

MCXCIII.

That there is a diffinct difeafe attended always with the greater part of the above fymptoms, is rendered very probable by this, that all these feveral fymptoms may arise from one and the fame cause; that is, from an imbecility, loss of tone, and weaker action in the muscular fibres of the stomach: And I conclude therefore, that this imbecility may be confidered as the proximate cause of the difease

365

disease I am'to treat of under the name of Dyspepsia.

MCXCIV.

The imbecility of the ftomach, and the confequent fymptoms (MCXC), may, however, frequently depend upon fome organic affection of the ftomach itself, as tumour, ulcer, or scirrhosity; or upon some affection of other parts of the body communicated to the flomach, as in gout, amenorrhoca, and fome others. In all these cases, however, the dyspeptic symptoms are to be confidered as fecondary or fympathic affections, to be cured only by curing the primary difeafe. Such fecondary and fympathic cafes cannot, indeed, be treated of here : But as I prefume that the imbecility of the ftomach may often take place without either any organic affection of this part, or any more primary affection in any other part of the body; fo I suppose and expect it will appear, from the confideration of the remote caules, that the dyspepsia may be often an idiopathic affection, and that it is therefore properly taken into the fystem of methodical Nofology, and becomes the fubject of our confideration here.

MCXCV.

There can be little doubt, that, in most cases, the weaker action of the muscular fibres of

POR A CIT I CIE)

366

of the ftomach, is the most frequent and chief caufe of the fymptoms mentioned in MCXC; but I dare not maintain it to be the only caufe of idiopathic dyspepfia. There is, pretty certainly, a peculiar fluid in the flomach of animals, or at leaft a peculiar quality in the fluids, that we know to be there, upon which the folution of the aliments taken into the flomach chiefly depends : And it is at the fame time probable, that the peculiar quality of the diffolving or digefting fluids may be varioufly changed, or that their quantity may be, upon occasion, diminished. It is therefore fufficiently probable, that a change in the quality or quantity of thefe fluids may produce a confiderable difference in the phenomena of digeftion, and particularly may give occasion to many of the morbid appearances mentioned in MCXC.

of the florate . MCXCVI. Istante be con-

lidenti under two heads. And field, 15, 01

produce a local of tone in the mulcular bores

This feems to be very well founded, and points out another proximate caufe of dyfpepfia befide that we have already affigned : But, notwithftanding this, as the peculiar nature of the digeftive fluid, the changes which it may undergo, or the caufes by which it may be changed, are all matters fo little known, that I cannot found any practical doctrine upon any fuppofition with refpect to them; and as, at the fame time, the imbecility of the flomach, either as caufing the change

change in the digeftive fluid, or as being induced by that change, feems always to be prefent, and to have a great fhare in occafioning the symptoms of indigeftion ; fo I shall still confider the imbecility of the stomach as the proximate and almost fole cause of dyfpepfia. And I more readily admit of this. manner of proceeding; as, in my opinion, the doctrine applies very fully and clearly to the explaining the whole of the practice which experience has eftablished as the most fuccelsful in this difeafe. And the stand of the st

the quality or governe of the

Confidering this, then, as the proximate caufe of dyspepsia, I proceed to mention the several remote causes of this difease ; as they are fuch, as, on different occasions, feem to produce a loss of tone in the mulcular fibres of the ftomach. They may, I think, be confidered under two heads. The first is, of those which act directly and immediately upon the flomach itself : The second is, of those which act upon the whole body, or particular parts of it, but in confequence of which the ftomach is chiefly or almost only affected. it may and argue or the cauter by which it

obid of area MCXCVIII. and was known, that I cancot toutd, any practical

of the first kind are, to the noor on show

- 1. Certain sedative or narcotic substances taken into the ftomach; fuch as tea, coffee, tobacco,

367

tobacco, ardent spirits, opium, bitters, aromatics, putrids, and acescents.

2. The large and frequent drinking of warm water, or of warm watery liquids.

3. Frequent furfeit, or immoderate repletion of the flomach.

4. Frequent vomiting, whether fpontaneoufly arifing, or excited by art.

5. Very frequent spitting, or rejection of faliva.

MCXCIX.

Those causes which act upon the whole body, or upon particular parts and functions of it, are,

1. An indolent and fedentary life.

2. Vexation of mind, and diforderly paffions of any kind.

3. Intense study, or close application to business too long continued.

4. Excefs in venery.

5. Frequent intoxication ; which partly belongs to this head, partly to the former.

6. The being much exposed to moist and cold air when without exercise.

Though the difeafe, as proceeding from the laft fet of caufes, may be confidered as a fymptomatic affection only; yet as the affection of the ftomach is generally the firft, always the chief, and often the only effect which thefe caufes produce or difcover, I think the affection of the ftomach may be confidered

confidered as the difeafe to be attended to in practice; and the more properly fo, as in many cafes the general debility is only to be cured by reftoring the tone of the ftomach, and by remedies firft applied to this organ.

MCCI.

For the cure of this difeafe, we form three feveral indications; a prefervative, a paliative, and a curative.

The first is, to avoid or remove the remote causes just now enumerated.

The *fecond* is, to remove those fymptoms which especially contribute to aggravate and continue the difease. And,

The third is, to reftore the tone of the ftomach; that is, to correct or remove the proximate cause of the disease.

MCCII.

The propriety and neceffity of the first indication is fufficiently evident, as the continued application, or frequent repetition of those causes, must continue the disease; may defeat the use of remedies; or, in spite of these, may occasion the recurrence of the disease. It is commonly the neglect of this indication which renders this disease so frequently obstinate. How the indication is to be executed, will be sufficiently obvious from the consideration of the several causes: But it it is proper for the practitioner to attend to this, that the execution is often exceedingly difficult, becaufe it is not eafy to engage men to break in upon eftablifhed habits, or to renounce the purfuit of pleafure; and particularly, to perfuade men that these practices are truly hurtful which they have often practifed with feeming impunity.

MCCIII.

The fymptoms of this difeafe which efpecially contribute to aggravate and continue it, and therefore require to be more immediately corrected or removed, are, firft, the crudities of the ftomach already produced by the difeafe, and difcovered by a lofs of appetite, by a fenfe of weight and uneafinefs in the ftomach, and particularly by the eructation of imperfectly digefted matters.

Another fymptom to be immediately corrected, is an unufual quantity, or a higher degree than ufual, of acidity prefent in the ftomach, difcovered by various diforders in digeftion, and by other effects to be mentioned afterwards.

The third fymptom aggravating the difeafe, and otherwife in itfelf urgent, is coffivenefs, and therefore conftantly requiring to be relieved.

MCCIV.

The first of these symptoms is to be relieved by exciting vomiting; and the use of this remedy,

remedy, therefore, ufually and properly begins the cure of this difeafe. The vomiting may be excited by various means, more gentle or more violent. The former may anfiwer the purpofe of evacuating the contents of the ftomach : But emetics, and vomiting, may alfo excite the ordinary action of the ftomach; and both, by varioufly agitating the fyftem, and particularly by determining to the furface of the body, may contribute to remove the caufes of the difeafe. But thefe latter effects can only be obtained by the ufe of emetics of the more powerful kind, fuch as the antimonial emetics effectally are.

MCCV.

ils of appetite

The second symptom to be palliated, is an excels of acidity, either in quantity or quality, in the contents of the flomach. In man there is a quantity of acefcent aliment almost conftantly taken in, and, as I think, always undergoes an acetous fermentation in the ftomach; and it is therefore that, in the human ftomach, and in the ftomachs of all animals using vegetable food, there is always found an acid prefent. This acid, however, is generally innocent, and occasions no diforder, unless either the quantity of it is very large, or the acidity proceeds to a higher degree than usual. But, in either of these cases, the acid occasions various diforders, as flatalency, eructation, heartburn, gnawing pains of

372

of the ftomach, irregular appetites and cravings, loofenefs, griping, emaciation, and debility. To obviate or remove thefe effects aggravating and continuing the difeafe, it is not only neceffary to correct the acid prefent in the ftomach ; but, efpecially as this acid proves a ferment determining and increafing the acefcency of the aliments afterwards taken in, it is proper alfo, as foon as poffible, to correct the difpofition to exceffive acidity.

MCCVI.

The acidity prefent in the ftomach may be corrected by the use of alkaline falts, or abforbent earths ; or by fuch fubstances, containing these, as can be decomposed by the acid of the ftomach. Of the alkalines, the cauftic is more effectual than the mild ; and this accounts for the effects of lime water. By employing abforbents, we avoid the excefs of alkali, which might fometimes take place. The abforbents are different, as they form a neutral more or lefs laxative ; and hence the difference between magnefia alba and other absorbents. It is to be observed, that alkalines and abforbents may be employed to excefs ; as, when employed in large quantity, they may deprive the animal fluids of the acid neceffary to their proper composition.

MCCVII.

The difposition to acidity may be obviated by avoiding acefcent aliments, and using animal animal food little capable of acefcency. This, however, cannot be long continued without corrupting the flate of our blood; and as vegetable food cannot be entirely avoided, the excefs of their acefcency may in fome meafure be avoided, by choofing vegetable food the leaft difpofed to a vinous fermentation, fuch as leavened bread and well fermented liquors, and, inflead of frefh native acids, employing vinegar.

MCCVIII.

The acid arising from acefcent matters in a found flate of the flomach, does not proceed to any high degree, or is again foon involved and made to difappear : But this does not always happen; and a more copious acidity, or a higher degree of it, may be produced, either from a change in the digeftive fluids, become lefs fit to moderate fermentation and to cover acidity, or from their not being fupplied in due quantity. How the former may be occafioned, we do not well understand ; but we can readily perceive that the latter, perhaps the former allo, may proceed from a weaker action of the muscular fibres of the flomach. In certain cases, sedative passions, immediately after they arife, occasion the appearance of acidity in the flomach which did not appear before; and the use of flimulants often corrects or obviates an acidity that would otherwife have appeared. From these confiderations, we conclude, that the production and subfissence of acidity in the stomach, is to be especially VOL. II. R

PRACTICE

874

Thread & T

especially prevented by restoring and exciting the proper action of it, by the several means to be mentioned hereafter.

MCCIX.

But it is allo to be further observed, that though there are certain powers in the flomach for preventing a too copious acidity, or a high degree of it, they are not however always fufficient for preventing acefcency, or for covering the acidity produced ; and therefore, as long as vegetable fubftances remain in the ftomach, their acefcency may go on and increafe. From hence we perceive, that a fpecial cause of the excess of acidity may be, the too long retention of acefcent matters in the ftomach ; whether this may be from these matters being of more difficult folution, or from the weakness of the ftomach more flowly discharging its contents into the duodenum, or from fome impediment to the free evacuation of the Romach by the pylorus. The latter of these causes we are well acquainted with, in the cafe of a scirrhous pylorus, producing commonly the higheft degree of acidity. In all the inftances of this fcirrhofity I have met with, I have found it incurable: But the first of these causes is to be obviated by avoiding fuch aliments as are of difficult folution; and the fecond is to be mended by the feveral remedies for exciting the action of the ftomach, to be mentioned afterwards.

MCCX.

MCCX.

The third fymptom commonly accompanying dyspepfia, which requires to be immediately removed, is coffiveness. There is fo much connexion between the feveral portions of the alimentary canal with respect to the peristaltic motion, that, if accelerated or retarded in any one part, the other parts of it are commonly affected in the fame manner. Thus, as the brifker action of the ftomach must accelerate the action of the inteffines, fo the flower action of the inteffines must in some measure retard that of the ftomach. It is therefore of consequence to the proper action of the ftomach, that the periftaltic motion of the inteffines determining their contents downwards, be regularly continued; and that all coffiveness, or interruption of that determination, be avoided. This may be done by the various means of exciting the action of the intestines : But it is to be observed here, that as every confiderable evacuation of the inteffines weakens their action, and is ready therefore to induce coffiveness when the evacuation is over; fo those purgatives which produce a large evacuation, are unfit for correcting the habit of coffiveness. This, therefore, should be attempted by medicines which do no more than folicit the inteffines to a more ready difcharge of their present contents, without either hurrying their action, or increasing the excretions made into their cavity; either of which effects might produce a purging. There are,

R 2

I think,

PRACTICE

376

I think, certain medicines peculiarly proper on this occasion, as they seem to stimulate efpecially the great guts, and to act little on the higher parts of the intestinal canal.

MCCXI.

We have thus mentioned the feveral means of executing our fecond indication; and I proceed to the *third*, which is, as we have faid, the proper curative; and it is to reftore the tone of the flomach, the lofs of which we confider as the proximate caufe of the difeafe, or at leaft as the chief part of it. The means of fatisfying this indication we refer to two heads. One is, of those means which operate directly and chiefly on the flomach itself; and the other is, of those means which, operating upon the whole fystem, have their tonic effects thereby communicated to the flomach.

MCCXII.

The medicines which operate directly on the flomach, are either flimulants or tonics.

The flimulants are faline or aromatic.

The faline are acids or neutrals.

Acids of all kinds feem to have the power of flimulating the flomach, and therefore often increase appetite: But the native acids, as liable to fermentation, may otherwise do harm, and are therefore of ambiguous use. The acids, therefore, chiefly and successfully employed, are the vitriolic, muriatic, and the distilled acid of vegetables, as it is found in tar water, which are all of them antizymics. The neutral falts answering this intention, are especially those which have the muriatic acid in their composition, though it is prefumed that neutrals of all kinds have more or less of the same virtue.

MCCXIII.

The aromatics, and perhaps fome other acrids, certainly flimulate the flomach, as they obviate the acefcency and flatulency of vegetable food : But their flimulus is tranfitory; and if frequently repeated, and taken in large quantities, they may hurt the tone of the flomach.

MCCXIV.

The tonics employed to ftrengthen the ftomach are bitters, bitters and aftringents combined, and chalybeates.

Bitters are undoubtedly tonic medicines, both with refpect to the ftomach and the whole fystem : But their long continued use has been found to destroy the tone of the stomach, and of the whole fystem; and, whether this is from the mere repetition of their tonic operation, or from some narcotic power joined with the tonic in them, I am uncertain.

MCCXV.

Bitters and aftringents combined, are, probably, more effectual tonics than either of themtaken fingly; and we fuppole fuch a combination to take place in the Peruvian bark; which therefore proves a powerful tonic, both R_3 with

PRACTICE

378

with refpect to the flomach and to the whole fyftem. But I have fome ground to fufpect, that the long continued use of this bark may, like bitters, deftroy both the tone of the flomach and of the whole fyftem.

MCCXVI.

Chalybeates may be employed as tonics in various forms, and in confiderable quantities, with fafety. They have been often employed in the form of mineral waters, and feemingly with fuccefs : But whether this is owing to the chalybeate in the composition of thefe waters, or to fome other circumftances attending their ufe, I dare not positively determine; but the latter opinion feems to me the more probable.

MCCXVII.

The remedies which ftrengthen the ftomach, by being applied to the whole body, are, exercife and the application of cold.

As exercise ftrengthens the whole body, it muft also ftrengthen the ftomach; but it does this also in a particular manner, by promoting perspiration, and exciting the action of the vessels on the furface of the body, which have a particular confent with the muscular fibres of the ftomach. This particularly explains why the exercises of gestation, though not the most powerful in strengthening the whole system, are, however, very powerful in strengthening the ftomach; of which we have a remarkable proof in the effects of failing.

379

In strengthening the general system, as fatigue must be avoided, fo bodily exercise is of ambiguous use; and perhaps it is thereby, that riding on horfeback has been fo often found to be one of the most powerful means of frengthening the flomach, and thereby of euring dyspepsia.

MCCXVIII.

The other general remedy of dyfpepfia, is the application of cold : Which may be in two ways; that is, either by the application of cold air, or of cold water. It is probable, that, in the atmosphere constantly furrounding our bodies, a certain degree of cold, confiderably lefs than the temperature of our bodies themselves, is necessary to the health of the human body. Such a degree of cold feems to firengthen the veffels on the furface of the body, and therefore the mufcular fibres of the flomach. But, further, it is well known, that if the body is in exercise fufficient to support fuch a determination to the furface, as to prevent the cold from producing an entire constriction of the pores; a certain degree of cold in the atmosphere, with fuch exercise, will render the perspiration more confiderable .. From the fharp appetite that in fuch circumstances is commonly produced, we can have no doubt, that by the application of fuch cold, the tone of the ftomach is confiderably strengthened. Cold air, therefore, applied with exercife, is a most powerful tonic with refpect to the flomach; and this explains why, R4

why, for that purpose, no exercises within doors, or in close carriages, are so useful as those in the open air.

MCCXIX.

From the fame reafoning, we can perceive, that the application of cold water, or cold bathing, while it is a tonic with respect to the fystem in general, and especially as exciting the action of the extreme vessels, must in both respects be a powerful means of strengthening the tone of the stomach.

MCCXX.

These are the remedies to be employed towards a radical cure of idiopathic dyfpepfia; and it might be, perhaps, expected here, that 1 should treat also of the various cases of the fympathic difease. But it will be obvious that this cannot be properly done without treating of all the difeafes of which the dyspepsia is a fymptom, which cannot be proper in this place. It has been partly done already, and will be further treated of in the course of this work. In the mean time, it may be proper to observe, that there is not so much occasion for diffinguishing between the idiopathic and fympathic dyspepsia, as there is in many other cases of idiopathic and sympathic diseas. For, as the fympathic cafes of dyfpepfia are owing to a loss of tone in some other part of the fystem, which is from thence communicated to the flomach; fo the tone of the flomach reftored, may be communicated to the part

380

381

part primarily affected; and therefore the remedies of the idiopathic may be often ufefully employed, and are often the remedies chiefly employed, in fympathic dyfpepfia.

MCCXXI.

Another part of our bufinels here might be to fay, how fome other of the urgent lymptoms, befides those above mentioned, are to be palliated. On this fubject, I think it is enough to fay, that the fymptoms chiefly requiring to be immediately relieved, are flatulency, heartburn, other kinds of pain in the region of the ftomach, and vomiting.

The dyfpeptic are ready to fuppole that the whole of their difeafe confifts in a flatulency. In this it will be obvious that they are miftaken; but, although the flatulency is not to be entirely cured, but by mending the imbecility of the flomach by the means above mentioned; yet the flatulent diffention of the flomach may be relieved by carminatives, as they are called, or medicines that produce a difcharge of wind from the flomach; fuch are the various antifpafmodics, of which the moft effectual is the vitriolic æther.

The heartburn may be relieved by abforbents, antifpafmodics, or demulcents.

The other pains of the flomach may be fometimes relieved by carminatives, but most certainly by opiates.

Vomiting is to be cured most effectually by opiates thrown by injection into the anus.

VOL. 2.

C.H.A.P.

PRACTICE

382

C H A P. III.

OF HYPOCHONDRIASIS, OR THE HY-POCHONDRIAC AFFECTION, COM-MONLY CALLED VAPOURS OR LOW SPIRITS.

MCCXXII.

IN certain perfons there is a ftate of mind diffinguished by a concurrence of the following circumstances : A languor, liftleffness, or want of resolution and activity with refpect to all undertakings; a disposition to feriousness, fadness, and timidity; as to all future events, an apprehension of the worst or most unhappy state of them; and therefore, often upon flight grounds, an apprehenfion of great evil. Such perfons are particularly attentive to the flate of their own health, to every the smallest change of feeling in their bodies; and from any unufual feeling, perhaps of the flightest kind, they apprehend great danger, and even death itfelf. In refpect to all these feelings and apprehensions, there is commonly the most obstinate belief and perfuafion.

MCCXXIII.

This state of mind is the Hypochondriasis of medical writers. See Linnæi Genera Morborum, Gen. 76. et Sagari Systema Symptomaticum,

383

tomaticum, Class XIII. Gen. 5. The fame ftate of mind is what has been commonly called Vapours and Low Spirits. Though the term Vapours may be founded on a false theory, and therefore improper, I beg leave, for a purpose that will immediately appear, to. employ it for a little here.

MCCXXIV.

Vapours, then, or the flate of mind defcribed above, is, like every other flate of mind, connected with a certain flate of the body, which must be inquired into in order to its being treated as a difease by the art of physic.

MCCXXV.

This state of the body, however, is not veryeafily ascertained: For we can perceive, that on different occasions it is very different; vapours being combined sometimes with dyspepsia, sometimes with hysteria, and sometimes with melancholia, which are difeases feemingly depending on very different states of the body.

MCCXXVI.

The combination of vapours with dyfpepfia is very frequent, and in feemingly very different circumftances. It is, efpecially, these different circumftances that I would with to afcertain; and I remark, that they are manifestly of two different kinds. First, as the discale occurs in young persons of both R.6 fexes,

h

fexes, in perfons of a fanguine temperament, and of a lax and flaccid habit. Secondly, as it occurs in elderly perfons of both fexes, of a melancholic temperament, and of a firm and rigid habit.

MCCXXVII.

Thefe two different cafes of the combination of vapours and dyfpepfia, I confider as two diffinct difeafes, to be diffinguished chiefly by the temperament prevailing in the perfons affected.

As the dyspepsia of sanguine temperaments is often without vapours; and as the vapours, when joined with dyspepsia in such temperaments, may be confidered as, perhaps, always a symptom of the affection of the stomach; so to this combination of dyspepsia and vapours, I would still apply the appellation of Dyspepsia, and confider it as strictly the disease treated of in the preceding chapter.

But the combination of dyspepsia and vapours in melancholic temperaments, as the vapours or the turn of mind peculiar to the temperament, nearly that described above in MCCXXII, are effential circumstances of the difease; and as this turn of mind is often with few, or only flight symptoms of dyspepsia; and, even though the latter be attending, as they seem to be rather the effects of the general temperament, than of any primary or topical affection of the storact ; I consider this combination as a very different difease from

384

385

from the former, and would apply to it firstly the appellation of Hypochondriafis.

MCCXXVIII.

Having thus pointed out a diffinction between Dyfpepfia and Hypochondriafis, I fhall now, ufing thefe terms in the ftrict fenfe above mentioned, make fome obfervations which may, I think, illustrate the fubject, and more clearly and fully establish the diffinction proposed.

MCCXXIX.

The dyfpepfia often appears early in life, and is frequently much mended as life advances: But the hypochondriafis feldom appears early in life, and more ufually in more advanced years only; and more certainly ftill, when it has once taken place, it goes on increafing as life advances to old age.

This feems to be particularly well illustrated, by our observing the changes in the flate of the mind which usually take place in the course of life. In youth, the mind is cheerful, active, rash, and moveable : But as life advances, the mind by degrees becomes more ferious, flow, cautious, and steady ; till at length, in old age, the gloomy, timid, distrustful, and obstinate state of melancholic temperaments, is more exquisitely formed. In producing these changes, it is true, that moral causes have a state of the state the state time obvious, that the temperament of the body determines the operation of these moral causes, 386.

es, fooner or later, and in a greater or leffer degree, to have their effects. The fanguine temperament retains longer the character of youth, while the melancholic temperament brings on more early the manners of old age.

MCCXXX.

Upon the whole, it appears, that the flate of the mind which attends, and efpecially diftinguishes hypochondriafis, is the effect of that fame rigidity of the folids, torpor of the nervous power, and peculiar balance between the arterial and venous fystems which occur in advanced life, and which at all times take place more or lefs in melancholic tempera-If therefore there be also somewhat ments. of a like flate of mind attending the dyfpepfia which occurs early in life in fanguine temperaments and lax habits, it must depend upon a different flate of the body, and probably. upon a weak and moveable state of the nervous power.

MCCXXXI.

Agreeable to all this, in dyspepsia, there is more of spalmodic affection, and the affection of the mind (MCCXXII) is often absent, and, when present, is perhaps always of a slighter kind: While, in hypochondriafis, the affection of the mind is more constant, and the symptoms of dyspepsia, or the affections of the stomach, are often absent, or, when present, are in a slighter degree.

I believe

I believe the affection of the mind is commonly different in the two difeafes. In dyfpepfia, it is often languor and timidity only, eafily difpelled; while in hypochondriafis, it is generally the gloomy and rivetted apprehenfion of evil.

The two difeafes are alfo diftinguished by fome other circumstances. Dyspepsia, as I have faid, is often a symptomatic affection; while hypochondriafis is, perhaps, always a primary and idiopathic difease.

As debility may be induced by many different causes, dyspepsia is a frequent difease; while hypochondriass, depending upon a peculiar temperament, is more sare.

MCCXXXII.

Having thus endeavoured to diffinguish the two difeases, I suppose the peculiar nature and proximate cause of hypochondrias will be understood; and I proceed therefore to treat of its cure.

So far as the affections of the body, and particularly of the ftomach, are the fame here as in the cafe of *dyfpepfia*, the method of cure might be fuppoled to be alfo the fame; and accordingly the practice has been carried on with little diffinction: But I am perfuaded that a diffinction is often neceffary.

MCCXXXIII.

There may be a foundation here for the fame prefervative indication as first laid down in in the cure of dyfpep fa (MCCII); but I cannot treat this fubject fo clearly or fully as I could with, becaufe I have not yet had fo much opportunity of observation as I think neceffary to afcertain the remote caufes ; and I can hardly make use of the observations of others, who have feldom or never diffinguifhed between the two difeafes. What, indeed, has been faid with respect to the remote caufes of melancholia, will often apply to the hypochondriasis, which I now treat of; but the Inbject of the former has been fo much involved in a doubtful theory, that I find it difficult to select the facts that might properly and strictly apply to the latter. I delay this fubject, therefore, till another occasion; but in the mean time truft, that what I have faid" regarding the nature of the difease, and some remarks I shall have occasion to offer in confidering the method of cure, may in some measure supply my deficiency on this subject of the remote caules.

MCCXXXIV.

The *fecond* indication laid down in the cure of dyfpepfia (MCCI) has properly a place here; but it is flill to be executed with fome diffinction.

MCCXXXV.

An anorexia, and accumulation of crudities in the ftomach, does not fo commonly occur in hypochondriafis as in dyspepsia; and therefore vomiting (MCCIV) is not fo often neceffary in the former as in the latter.

MCCXXXVI.

388

MCCXXXVI.

The fymptom of excels of acidity, from the flow evacuation of the flomach in melancholic temperaments, often arifes to a very high degree in hypochondriafis; and therefore, for the fame reafon as in MCCV, it is to be obviated and corrected with the utmost care. It is upon this account that the feveral antacids, and the other means of obviating acidity, are to be employed in hypochondriafis, and with the fame attentions and confiderations as in MCCVI, and following; with this reflection, however, that the exciting the action of the flomach there mentioned, is to be a little differently underflood, as fhall be hereafter explained.

MCCXXXVII.

As coffiveness, and that commonly to a confiderable degree, is a very constant attendant of hypochondriass, fo it is equally hurtful as in dyspepsia. It may be remedied by the same means in the former as in the latter, and they are to be employed with the same restrictions as in MCCX.

MCCXXXVIII.

It is efpecially with refpect to the *third* indication laid down in the cure of dyfpepfia (MCCI), that there is a difference of practice to be obferved in the cure of hypochondriafis; and that often one directly opposite to that in the case of dyfpepfia, is to be followed.

MCCXXXIX.

MCCXXXIX.

In dyfpepfia, the chief remedies are the tonic medicines, which to me feem neither neceffary nor fafe in hypochondriafis; for in this there is not a lofs of tone, but a want of activity that is to be remedied.

Chalybeate mineral waters have commonly been employed in hypochondriafis, and feemingly with fuccefs. But this is probably to be imputed to the amufement and exercife ufually accompanying the ufe of thefe waters, rather than to the tonic power of the fmall quantity of iron which they contain. Perhaps the elementary water, by favouring the excretions, may have a fhare in relieving the difeafe.

MCCXL.

Cold bathing is often highly useful to the dyspeptic, and, as a general ftimulant, may fometimes seem useful to the hypochondriac; but it is not commonly so to the latter; while, on the other hand, warm bathing, hurtful to the dyspeptic, is often extremely useful to the hypochondriac.

MCCXLI.

Another inftance of a contrary practice neceffary in the two difeafes, and illustrating their respective natures, is, that the drinking tea and coffee is always hurtful to the dyfpeptic,

OF PHYSIC.

peptic, but is commonly extremely useful to the hypochondriac.

MCCXLII.

Exercife, as it ftrengthens the fyftem, and thereby the ftomach, and more efpecially, as, by increafing the perfpiration, it excites the action of the ftomach, it proves one of the moft ufeful remedies in dyfpepfia; and further, as, by increafing the perfpiration, it excites the activity of the ftomach, it likewife proves an ufeful remedy in the hypochondriafis. However, in the latter cafe, as I fhall explain prefently, it is ftill a more ufeful remedy by its operation upon the mind than by that upon the body.

MCCXLIII.

It is now proper that we proceed to confider the moft important article of our practice in this difeate, and which is, to confider the treatment of the mind; an affection of which fometimes attends dyfpepfia, but is always the chief circumftance in hypochondriafis. What I am to fuggeft here, will apply to both difeafes; but it is the hypochondriafis that I am to keep moft conftantly in view.

MCCXLIV.

The management of the mind, in hypochondriacs, is often nice and difficult. The firm 392

firm perfuation that generally prevails in fuch patients, does not allow their feelings to be treated as imaginary, nor their apprehention of danger to be confidered as groundlefs, though the phyfician may be perfuaded that it is the cafe in both respects. Such patients, therefore, are not to be treated either by raillery or by reasoning.

It is faid to be the manner of hypochondriacs to change often their phyfician ; and indeed they often do it confiftently : For a phyfician who does not admit the reality of the difeafe, cannot be fuppofed to take much pains to cure it, or to avert the danger of which he entertains no apprehenfion.

If in any cafe the pious fraud of a placebo be allowable, it feems to be in treating hypochondriacs; who, anxious for relief, are fond of medicines, and, though often difappointed, will ftill take every new drug that can be propofed to them.

MCCXLV.

As it is the nature of man to indulge every prefent emotion, fo the hypochondriac cherishes his fears, and, attentive to every feeling, finds in trifles light as air a ftrong confirmation of his apprehensions. His cure therefore depends especially upon the interruption of his attention, or upon its being diverted to other objects than his own feel-. ings.

MCCXLVI.

MCCXLVI.

Whatever averfion to application of any kind may appear in hypochondriacs, there is nothing more pernicious to them than abfolute idlenefs, or a vacancy from all earneft purfuit. It is owing to wealth admitting of indolence, and leading to the purfuit of tranfitory and unfatisfying amufements, or to that of exhausting pleasures only, that the prefent times exhibit to us fo many inflances of hypochondriacifm.

The occupations of bufinefs fuitable to their circumftances and fituation in life, if neither attended with emotion, anxiety, nor fatigue, are always to be admitted, and perfifted in by hypochondriacs. But occupations upon which a man's fortune depends, and which are always therefore, objects of anxiety to melancholic men; and more particularly where fuch occupations are exposed to accidental interruptions, difappointments, and failures, it is from thefe that the hypochondriac is certainly to be withdrawn.

MCCXLVII.

The hypochondriac who is not neceffarily; by circumftances or habits, engaged in bufinefs, is to be drawn from his attention to his own feelings by fome amufement.

The various kinds of fport and hunting, as purfued with fome ardor, and attended with exercife, 394

exercife, if not too violent, are amongst the most useful.

All those amusements which are in the open air, joined with moderate exercise, and requiring some dexterity, are generally of use.

Within doors, company which engages attention, which is willingly yielded to, and is at the fame time of a cheerful kind, will be always found of great fervice.

Play, in which fome skill is required, and where the stake is not an object of much anxiety, if not too long protracted, may often be admitted.

In dyfpeptics, however, gaming, liable to fudden and confiderable emotions, is dangerous; and the long continuance of it, with night watching, is violently debilitating. But in melancholics, who commonly excel in fkill, and are lefs fufceptible of violent emotions, it is more admiffible, and is often the only amufement that can engage them.

Mufic, to a nice ear, is a hazardous amusement, as long attention to it is very fatiguing.

MCCXLVIII.

It frequently happens, that amufements of every kind are rejected by hypochondriacs; and in that cafe, mechanical means of interrupting thought are the remedies to be fought for.

Such is to be found in brifk exercife, which requires fome attention in the conduct of it. Walking

11101030

Walking is feldom of this kind; though, as gratifying to the reftleffnefs of hypochondriacs, it has fometimes been found uleful.

The required interruption of thought is best obtained by riding on horseback, or in driving a carriage of any kind.

The exercife of failing, except it be in an open boat, engaging fome attention, does very little fervice.

Exercife in an eafy carriage, in the direction of which the traveller takes no part, unlefs it be upon rough roads, or driven pretty quickly, and with long continuance, is of little advantage.

MCCXLIX.

Whatever exercife may be employed, it will be most effectual when employed in the pursuit of a journey; first, because it withdraws a person from many objects of uneasiness and care which might present themselves at home; fecondly, as it engages in more constant exercise, and in a greater degree of it than is commonly taken in airings about home; and, lastly, as it is constantly presenting new objects which call forth a person's attention.

MCCL.

In our fystem of Nosology we have, next to Hypochondriasis, placed the Chlorosis, because 396

1111100

caufe I once thought it might be confidered as a genus, comprehending, befides the Chlorofis of Amenorrhœa, fome fpecies of Cachexy: But, as I cannot find this to be well founded, and cannot diftinctly point out any fuch difeafe, I now omit confidering Chlorofis as a genus here; and, as a fymptom of Amenorrhœa, I have endeavoured before to explain it under that title.

OF VOL. II.

ORCESTER, BY ISA MDCCXC.

