A treatise concerning the malignant fever in Barbados, and the neighbouring islands: with an account of the seasons there, from the year 1734 to 1738. In a letter to Dr. Mead / By Henry Warren, M.D.

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TREATISE

Concerning the

MALIGNANT FEVER

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BARBADOS,

AND THE NEIGHBOURING ISLANDS:

WITH

An Account of the SEASONS there, from the Year 1734 to 1738.

LETTER to Dr. MEAD.

By HENRY WARREN, MD.

LONDON, Printed for FLETCHER GYLES against Grays-Inn in Holborn. MDCCXLI.

A T N heeraing that H THAMOUTAN NI I BAR BADO au, au au CHBOURING ISLANDS: HTIW In Account of the Seasons there, fiora the Year 173.4. to 1738. TTER to Dr. 21E AD. By Lignary Veryken, DI D. LONDON Red for FEBTORES

Doctor M E A D, PHYSICIAN TO HIS MAJESTY.

TO

SIR,

THE Character You universally bear, of being as much distinguished by your Humanity and Benevolence, as You are by your Learning and Skill in our Profession, has induced me to take the Liberty of Sending You the following Short Treatife, and of desiring your Perusal of it. I have not the Vanity to think, that such a Performance as This can stand the Test of your accurate Judgment: But as it is founded on Observation and the Experience of many Years Practice, and confequently may be of Service in the Cure of a MALIGNANT FEVER, the

DEDICATION.

the Nature of which (though it has now for feveral Years raged in This and the Neighbouring Iflands) has not yet been rightly understood; I flatter myself, that, though it may not perhaps in every Particular merit your Approbation, yet it will, upon the Account of my good Intentions, meet with Pardon. Such as it is, I submit it intirely to your Censure, that it may, if you shall think it will be useful to the Public, be committed to the Press; but, if you shall judge otherwise, to the Flames. I am, with true Respect,

SIR, sets

Your most Obedient,

oroging there Treatife, and of

And most Humble Servant,

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and confequently may be of Service in

the Cove of a MALIGNANT FEVER,

BARBADOS, May 29, 1739.

HENRY WARREN.



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TREATISE of the Malignant Fever in

BARBADOS, Sec.



T has been often very juftly obferved, that we have no Malignant Diftempers truly Indigenous, or Natives of this Ifland; and that fuch have always been

brought in among us from fome other infected Places: However, it is certain, that this, and the other Sugar Iflands, have feveral times been vifited by these unwelcome Guests, at uncertain Intervals and no stated Periods of Time.

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Of the MALIGNANT FFVER

'Tis not my prefent Purpose to treat of those more common contagious Diseases, as Small-Pox, Meafles, Scarlet-Fever, and the like; but I shall confine myself wholly to the prefent reigning MALIGNANT FEVER, which has hitherto unhappily been fo little underftood, and no just appropriate Method of Cure yet found out for it; having been most commonly mistaken for a Bilious Fever, and that fpecious Name efpoufed and affixed to it by fome Perfons of Judgment and Reputation; particularly in a Treatife published a few Years ago, concerning the Diftempers of Barbados; which, I fear, has misled many unwary Practitioners into a false Notion of the Distemper, and fo into a wrong Method of Practice, full of Danger and pregnant of Errors: For in that Difcourfe, whoever will be at the pains of obferving, will foon perceive, that the Author (being perhaps deceived by fome Phænomena that are common to all Acute Fevers) has blended together two most different Maladies, I mean the Malignant and the Ardent Fever of Barbados, in one and the fame Description, without any Discrimination of the Symptoms that are proper and congenial to each, and plainly diffinguish one from the other, comprehending or rather confounding both under the general Title of Febris Ardens Bilio/a; and I am perfuaded, that where he fucceeded in his boafted

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boafted Method of Cure, the Fever has frequently been of the ordinary Inflammatory Clafs. A long and follicitous Attention to the Rife, Nature, Symptoms, Progrefs, and Iffue of this fatal Difeafe, has (I flatter myfelf) furnifhed me with fuch Lights and Obfervations, as may be of fome Importance and Service to my Fellow-fubjects; and I have, from my own Experience, juft Reafon to believe, that a conformable Practice will feldom fail of being attended with Succefs, provided the Phyfician be called very early, and no Adminiftrations offered before he comes, particularly, Bleeding, Bliftering, Vomiting, Purging, or Anodynes.

I am of opinion, that this Fever is truly of the Pestilential Kind, and ought properly to be called by no other Denomination. It refembles, very nearly (except that the Condition of the Blood is not the fame) the Pestilential Fever described by Dr. Sydenham, which continued for fome time after the Plague of London; and it is attended with many Appearances, peculiar to the Plague itfelf; the Plague-boil and the Rapidity and Ferocity of the Symptoms only excepted; fo that it feems to differ from it only in Degree, but not in Species. The French call it fometimes, La Maladie de Siam, from a Country of that Name in the East-Indies, where it is a constant Inhabitant; fometimes they call it, La Fieure Mate-A 2

Matelotte, becaufe Sea-faring People and New-comers are chiefly obnoxious to it; and probably it is the very fame Fever, which the Spaniards call Vomito Preto, or the Black Vomiting, from one of its most dire Symptoms.

It has made two Vifits to this Ifland, within the Space of thefe laft fixteen Years: The firft was fomewhat above fifteen Years ago; and it was, at that Time, generally thought to be introduced among us from *Martinique*, in the Lynn Man of War, and committed much Ravage here for two Years or more.

The fecond Appearance it made was in the Year 1733, towards the latter End, or about the *Christmas* Holy-Days; fince which Time we have never been totally free from it, tho' it has fometimes feemed to lie dormant for a Month or two together. This laft Invafion was likewife from *Martinique*, from whence it was brought to us by an *English* Surgeon, who died of it here in a few Days after his Arrival.

I fhall now endeavour to give fome Acount of its Origine : and, as I am confcious to myfelf that nothing fways me but an honeft Candor and a fincere Love of Truth, I am not at all afraid of Cenfure, in pretending to derive it from a Country very remote, tho' what I advance may poffibly be new to many, and confequently may occafion Surprize Surprize in those, who have hitherto been fixed in a Belief that it was a mere Native of *America*. I apprehend this Distemper to be really of an *Asiatic* Extract, as far as I am able to discover upon the most strict Enquiry. To support this Opinion, I shall offer the following Reasons.

Some fmall Time before Mr. Nelfon (for that is the Name of the English Surgeon above mentioned) left Martinique, this Fever broke out there with very great Malignity, and foon fwept away a Multitude of People, efpecially New-comers, and Seafaring Perfons, fuch as had purer Blood, and probably lefs aduft than that of the Natives; or of those, whose Constitutions had been for many Years fitted and habituated to the Climate.

The Occafion of this Calamity was thus: A Provençale Fleet came in, about that Time, to Port St. Pierre from Marfeilles, on board of which were feveral Bales of Levant Goods, which were taken in by fome Veffels of the Fleet in the Road of Marfeilles, for the American Market, out of a French Ship that had juft arrived from St. Jean D' Acre (probably the Ptolemais of the Ancients) where the French drive a confiderable Trade, tho' the Place is feldom free from Peftilential Infections. Upon opening thefe Bales at Port St. Pierre, this Diftemper immediately fhewed itfelf, many

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many of the People employed were instantly seized, some died almost suddenly, others in a few Days, and fome linger'd longer; and the Contagion still spreading, made great Havock at the Beginning. This Account I had from the Mouth of the faid Nelfon a few Days before he died. As this raifed my Curiofity very much, I was very follicitous in endeavouring to get further and more certain Intelligence; and within five or fix Months afterwards, the fame Detail was confirmed to me by a Gentleman of Understanding and Veracity, who at that Time refided at Martinique; with these further Circumstances, that the Distemper for some Time had abated there fo confiderably, that it was thought entirely to have left the Ifland, when fuddenly another Marfeilles Veffel arriving, brought it back a fecond Time, with more Rage and Violence than before. It is not improbable, that the fame Fever, or one of very near Refemblance and Affinity, might first have been carried among the American Spaniards (among whom it is now Endemic) in fomewhat a like Manner; and that poffibly fome peculiar Qualities of the Air and Climate might have foftered and maintained it there ever fince: For I never learned that the Indians, or old Natives, were ever troubled with it, until their new Oppreffors came amongst them. And I am apt to believe, that

that the Nearness of Jamaica to those Parts, with which there is a constant Trade and Correspondence, has been not a little injurious to the Health of its Inhabitants, besides a bad Air and Vapours from the Mountains.

I am not ignorant, that immenfe Tracts of uncultivated Lands, abounding in Woods, Lakes and Marshes, about which a corrupt stagnating Air perpetually lies brooding; or vast Mountains, whose Bowels are replete with divers Mineral Substances, may produce often Epidemical Malignant Difeafes; but it feems to me very evident, that this is no way applicable to the prefent Cafe, nor can this Fever I am treating of, be reafonably attributed to any fuch Caufes. For, First, the Air of Barbados is in general remarkably fresh and pure, and probably more falubrious than that of any other Sugar Colony. Secondly, The Land here, in respect of the other Islands, is the beft cultivated, and entirely free from Lakes or Marshes; it lies to low as not to be feen by Mariners at any confiderable Distance at Sea, and yet is agreeably diverfified with Rifings and Hills, on the very Tops of which the best Canes grow; and, unfortunately for the People, there are now no Woods at all, or what remains does fcarce fuffice for Fuel: Befides, its Situation is to the Windward of all others, and

and at a greater diftance from any Part of the Northern or Southern Continents of America; and it is well known, that many of the Inhabitants live to very advanced Ages. Thirdly, Neither the Alteration of the Weather or Winds, nor the different Seafons of the Year, have ever, of themfelves, been able to produce this contagious Difease among us: Many Years (I may fafely fay feven, or eight, or more, fucceffively) have, to my certain Knowledge, paffed over, when the fultry Heats and long intolerable Droughts of fome, the almost inceffant Rains of others, or the tempestuous Weather of many, and that from uncommon Points of the Compass too, must furely, in fome degree or other, have given Rife to fuch an Epidemical Malignity, if it could poffibly be derived from fuch Caufes; and yet no Footsteps of this Fever did appear all that Time; we were then fufficiently healthy, no other Diftempers being felt but what all Parts of Europe are always equally fubject to. Fourthly, I have often obferved, and I think with great Certainty, that, even at the Time that this Malignity is actually harboured among us, a Continuation of dry and fultry Weather has been fo far from giving any Aggravation to it, that it has rather feemed to reprefs it, and make it lie more lull'd and dormant, until the returning Rains, and a moift Atmosphere, DAR

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mosphere had set it at liberty to exert its Rage anew.

The Reader may judge as he thinks fit of this Account of the Origin of this Difeafe. I am fatisfied that it was introduced amongft us, thefe two laft Times, in the Manner now defcribed; and that it is not by any means the natural Growth of this Healthy Ifland, but truly a foreign Intruder, let the firft Caufes of it be what or from whence they may. And I think the Violence and Horror of the Symptoms, as well as its contagious Malignity and Mortality, do fufficiently demonstrate its Nature to be Peftilential, which is the chief Matter I wanted to prove.

Upon the first Infult of this Distemper, the Symptoms are, for the most part, as follow; viz. a fudden Faintnefs, and frequently a Giddinefs too, then a Chillinefs and Horror, which are immediately fucceeded by an Ardent Fever, with fevere darting Pains in the Head and Small of the Back; the Face intenfely flush'd, Redness and Burning in the Eyes, high-coloured crude Urine, the Pulfe in fome quick, high, and throbbing; in others, quick, low, and vacillating; the Skin fometimes (tho' rarely) parched and dry, but oftner, and indeed generally, moift and disposed for Sweat; early Deliria, great Tightnefs, Anxiety, and Oppreffion about the Præcordia; Diffi-R

Difficulty of Respiration, Sickness of the Stomach, with Reachings to vomit: The Blood now drawn is florid and rarified, with evident Marks of Colliquation, and without the leaft Sign of Size, that I could ever once observe; the Infula or Crasfamentum (even when cool) upon moving it, undulates like Water in a Bason, and has fometimes blackish Spots here and there upon its Surface, with much yellowish Serum, upon which it extends itself wide and thin: Soon after, all these Symptoms are aggravated with almost perpetual Reaching and Vomiting, great Inquietude, inceffant Jactations, no Ease in any Posture, fcarce any Reft or Sleep, or that at beft disturbed and unrefreshing.

This is the first Stage of the Difease, which I call the *Colliquative State*: It lasts fometimes only one Day, and fometimes two or three, or even more, according to the Degree of Infection, Constitution of the Patient, or the different Manner of Treatment; but the fooner it is fucceeded by the next Stage, the more unhappy Situation the fick Person is in.

Now comes on an univerfal Yellownefs all over the Surface of the Body, generally firft difcoverable in the Coats of the Eyes, with dark or blackifh Circles round their Orbits, the Fever abates, the Pulfe flags, the Skin all over moift and clammy, often with

with a very fenfible Chillinefs, and the Urine of a dark, deep, croceous Hue: The Tongue at this Time appears generally moifter and cleaner than in the former Stage, the Tip and Edges of it, as well as the Lips and Gums, of a more florid Red than usual, as if Blood was ready to start through them. Now frequently the Patient has a Heavinefs to doze, and grows comatofe, shewing Signs of much Confusion and want of Memory, whenever awakened from his unavailing Slumbers. However, it often happens about this Time, that (without a Coma) he shall receive fome comfortable Reft and Sleep, which is often miftaken for a joyful Profpect of Recovery; but this flattering Scene is of very fhort Continuance. This Stage lasts fometimes only for the Space of fome Hours, though fometimes it extends itfelf to the length of a Day or two, and fometimes a good deal longer, but very rarely.

This is the fecond Stage of the Diftemper, which I chufe to call by the plain Name of the Yellow State; for the Words Bilious, or IEteritious, I take to be very improper and inadequate Terms. This Yellownefs, I am perfuaded, chiefly arifes from a more compleat Colliquation or Diffolution of the red Globules of the Blood into a yellowifh Serum, which will naturally foon give that Tincture to the whole B 2 Skin.

Skin. The fame is often observable on human Bodies foon after the Bites of fome poifonous Serpents, or other venomous Animals; and in fuch Cafe it cannot with any reason be supposed to proceed from a Suffusion of Bile, but rather from a Colliquation, and perhaps a gangrenous Diathefis of the fanguineous Mais, occasioned by the Force of the Deleterious Venom that had been infufed into it. What is obferved every Day in all common Bruises of the Flesh, may ferve somewhat farther to illustrate this Matter; for here when the Texture of the extravafated Blood begins to loofen and diffolve into a liquid ferous Confistence (in order to acquire a proper Fluor and Permeability for paffing on, and being received again into the Mass of circulating Juices) a very visible Yellowness does always appear in and about the Part; but this foon goes off again, when the Matter is fully abforbed back into the Veffels, where it commits no Hurt, but is readily overcome by the Force of Nature, as the Quantity of fuch diffolved Blood is fmall, and at the fame time very innoxious. I do not however deny, but that through a great Propenfity and Straining to vomit, fome Quantity of Bile may be thrown into the Blood; but then I must observe, that the Yellowness of this Diftemper I am fpeaking of, very frequently shews itself, when

when there has been no Vomiting or Reaching at all, or fcarce any fenfible Sicknefs of the Stomach; for the Truth of which I can appeal to many: I must own likewife that the Bile, both that reposited in the Cyftis Fellea, and that perpetually flowing through the Porus Biliarius, is the most alcalescent or putrescent Humour in the human Body, and may eafily, if by any means grown more rancid, and fo thrown largely into the Blood, give violent Difturbance to the Animal Spirits and whole Oeconomy, and even occafion dangerous putrid Fevers; but this I cannot believe to be the prefent Cafe: For then how comes it that Strangers and New-comers, whole Blood is pureft and least impregnated with exalted Oils and Salts, should be most liable to this Difease? How comes it that the Natives of the Torrid Zone, whole Juices we may reafonably fuppofe to be more acrid and alcalefcent, are however much lefs obnoxious to it, if the malignant Symptoms proceeded merely from a Suffufion of Bile? How comes it that all Sorts and Conditions of the People, who live in the fame Island, nay, in the fame Town and Air, shall never receive the Infection, provided they keep themfelves a little out of its Reach, and at a fufficient Diftance from infected Perfons and Places? How comes it that the Negroes, whofe Food is moftly

mostly rancid Fish or Flesh, nay often the Flesh of Dogs, Cats, Asses, Horses, Rats, &c. who mostly lead very intemperate Lives, and who are always worfe clad, and most exposed to Surfeits, Heats, Colds, and all the Injuries of the Air, are fo little fubject to this Danger? Nay, fuppofing the Bile were ever fo alcalefcent, or even corrupted, or mixed ever fo plentifully with the Blood, I cannot comprehend (without fome Peftilential Labes were really added to it) that it should be able to act fo cruel a Tragedy in fo fhort a Time, as that of inducing an universal Mortification all over the Body and its Juices, and as it were caufing a total Syderation of the Animal Spirits in the Space of Twenty-four Hours, as has fometimes been obferved. I have only this to add farther, that it is notorious, every Acute Fever of any confiderable Continuance does commonly leave fome Sort of yellow Discoloration on the Skin, and yet this is never imputed to any Fault in the Bile, but rather to the Attrition or Diffolution of the globular Blood through the continued Force and Rapidity of its Circulation; and feveral Inftances might be brought to fhew how by this Means, efpecially where large Evacuations have been made at the fame Time, the Blood has been rendered fo thin, poor, and difpirited, that fome of the extreme Parts have mor. tified,

tified, and even required Amputation. In Obstinate Agues, and in many Cronical Cases, the Skin is often discoloured in the fame Manner; and so it is in Beggars and the poorest of the People, whose Blood is weakest and most depauperated.

I should not have dwelt so long upon this Point, but in order to obviate some egregious Errors of a late ingenious *Phyfician* of this Island, which, as his Treatife is got into many Hands, may possibly missed many People in these Parts in their Practice and Judgments: Indeed I had the Pleasure of convincing him of those Mistakes, and I muss do him the Justice to declare, that he frankly retracted his Opinion before he died, and would willingly have called in the Copies, could he have found Means of doing it.

This Condition of Things is feldom of any Permanency, the Scene is again foon fhifted, and now many terrible Harbingers of the expected Catastrophe appear: Blood flowing out by the Nose and Mouth; large Quantities of black mortified Blood voided both by Vomit and Stool; the Urine almost quite black, the Pulse low, tottering, unequal, and intermittent; most difficult and laborious Breathing, Startings, horrible Anxieties, with almost constant Deliria, Faintings, Hiccups, cold Sweats, Death-like Coldness in all the Extremities, though at the fame

fame time an intenfe burning Heat, with torturing Labour and Oppreffion about the Heart; now an intire Lofs of Reafon and all the outward Senfes too, with livid Spots in many Parts of the Body, principally about the vital Region, which Symptoms are foon fucceeded by Death dreadful to the Beholders.

This is the third Stage of the Diftemper, which I think I may juftly call the Gangrenous State. Soon after Death, the Body appears much fuller than before of livid Blotches, efpecially about the Region of the Præcordia, which from the Beginning feemed to be the chief Seat or Throne of the furious Conqueror.

In this Manner and Order the Difeafe invades and proceeds in its middle or most ordinary Form. But there are fome extraordinary Shapes of it too: For in fome Inftances, the Violence of it from the first Hour is fo intractable, rapid, and precipitant, and it bears fo very great a Likenefs to the Plague itself, that it gives no room at all to difcriminate its different Stages, the whole Tragedy being finished in the Space of twenty-four, thirty, or forty Hours, with the most direful Symptoms, and a purple Hue, much inclining to black, covering almost the whole Body, even before the Article of Dying, or at least immediately afterwards.

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And on the contrary it happens fometimes, that this Fever, both at the Beginning, and throughout its whole Courfe, is attended with lefs Danger, and fewer and milder Symptoms, than those enumerated above in the ordinary Form, and is most easy to be overcome; but yet even in this Case of Serenity and seeming Security, Danger is readily invited or brought on by over-hasty, bold, and improvident Administrations.

It is proper here likewife to mention another Observation of very fingular Moment. I have feen fometimes (tho' I muft own but feldom) when there was great feeming Danger and Diftrefs, that the fick Perfon has been fuddenly and unexpectedly relieved by a large critical Eruption of Boils or fmall Absceffes all over his Body. To explain how and from whence this favourable Phænomenon arifes, it will be neceffary to give a fhort View of the Natural Tendencies of Inflammation in general. There are three principal Ways, by which Inflammation is usually determined; viz. Refolution, Suppuration, and Mortification or Sphacelus: The first, which is the commonest and fafest, may every Day be observed in all light Inflammations, and even in most Fevers, where, by Evacuations, and the Use of Attenuant Medicines, the Obstructions are removed, and the Ob-Aruent

struent Particles rendered fo thin, as to be capable of paffing forward and being received again into the Laws of Circulation : The fecond (which is applicable to the Cafe I have just mentioned) happens, when the inflamed obstructing Matter, being of a large Quantity, and yet of a mild Nature, is maturated and digefted along with fome of the tenderest obstructed Vessels into a whitish, thick, fat, glutinous Humour, called Pus: This is observable in Boils, Buboes, and in all Abfceffes or Impofthumations, fome degree of Fever being required to ripen and perfect it; and it is attended with little Danger, unless the suppurated Matter be unluckily translated upon fome of the Noble Viscera. The third happens through a malignant Acrimony of the Humours, by which they tend to be changed into a thin, corrofive, gangrenous Ichor or Sanies, efpecially when accompanied by a great Loss or Depression of Spirits, or too fudden a Sinking and Abating of the Fever: This is most commonly the Cafe in the Plague, and in all Peftilential Infections; but even in the Plague itself, when the Boil or Carbo happens to be right-Iy inflamed, and then to suppurate kindly, without finking or growing foft and livid, the infected Perfon often escapes with Life.

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I have now defcribed this Diftemper as well in its commonest and most ordinary, as in its extraordinary Shapes: As to its extraordinary Appearances, it is no hard matter to forefee foon, what Event may reasonably be expected. But when it appears in its most common Form (though God knows that is dreadful enough) I can fafely, without Offence to Truth, declare, from my own repeated Observation and Experience, that it is not at all infuperable, but may be happily overcome by a just and prudent Conduct; to which, even the Jactations, Deliria, Vomitings, Sighings, Anxiety, and Oppreffion, Bleeding at the Nofe and Mouth, &c. will readily fubmit; provided due Care be taken, and that early at the Beginning, to divert the acrimonious infected ferous Particles from the vital Parts, and extrude them out of the Body by the proper Organs of Sweat and Perfpiration. It has been mentioned before, that New-comers and Sea-faring People are most liable to this Contagion; but it must be observed, that it sometimes (though more rarely) invades the Natives too, of whom at Times I have had many under my Care. Indeed, had the Inftances of its destructive Rage been so frequent among the Natives, especially those of Opulence and Diftinction, as among Strangers and this lower Class of poor Mariners, it

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it would, without doubt, have made much more Noife, and raifed much more frightful Alarms, than it has hitherto done.

I have, in general, remarked, that it feizes the unfortunate Perfon moft commonly, 1/t, After hard Drinking and fitting up late o' Nights, and then expofing the Body to the damp, chilly, Night Air; 2*dly*, Upon any too violent Exercifes of the Body, by Labour, Walking, Running, Dancing, and the like, and then cooling in the Air, too fuddenly, without fufficiently defending the open Pores; 3*dly*, Upon drinking large Draughts of cool Liquors, particularly cold Water, upon the aforefaid Occafions.

The poor common Sailors, who notorioufly fuffer most of any, while they remain in our Ports, have perhaps lefs Conduct in their Way of living than any Sett of People in the World, drinking ever hard of the vileft and cheapeft ftrong Liquors when ashoar, and then going off upon the Water with Breafts open, and their Bodies poorly covered, even in the Night: Befides, if there be any Impurity in the Air of our Island at all, it must be only about the Wharfs, where always is the chief Refort of Sailors, either for Bufinefs or Pleafure; and it is not unlikely, that those may be the most proper Places for harbouring, improving, and fpreading the

the Contagion, when once it has got Footing amongst us.

It will be readily granted, that the Peft, Pestilential Fevers, and other Contagious Distempers, operate upon our Bodies by poisonous Qualities, destructive of the human Oeconomy; and that their Virulence confifts of Particles truly material, though halituous or volatile, and no ways to be perceived by any outward Senfe. These Particles, being by any means infused into and mixing with our Juices, do foon change fuch Liquids as they first meet with, into their own Likeness and Nature, and these again infect others in a fort of proliferous Manner, until the whole Mafs becomes contaminated; and this happens more quickly or flowly, according to the different Force of the peculiar Venom, or its different Mode of acting, as appears plainly by transiently comparing the Plague, Spotted Fever, Small-Pox, Leprofy, Lues Venerea, &c. It is certain, that almost all Poifons have a diffinct fpecific Power, each operating conftantly in its own Way and with great Regularity, though all with a wonderful Disparity of Effects : And this appears still more manifestly in the Symptoms arifing from any fuch Poifons as are received from noxious Animals or Vegetables, &c. whose Venom is more gross and material, and confequently more evident

dent to the outward Senfes. Of thefe, fome produce furprizingly very different Distempers; so the Bite of the Viper and Sting of the Scorpion, do in a very few Hours deform the whole Surface of the Body, by a most filthy Sort of Jaundice; the Cicuta Aquatica creates Convulsions, Madnefs, and Epilepfy; the Solanum Somniferum affects by Narcofis and Stupefaction; the Bite of the Afp gives a gentle though fatal Lethargy; and of late Years the distilled Water of Laurel Leaves has been found to deftroy almost instantly, by blasting as it were at once all the Animal Spirits, without leaving any visible Marks on the Body or Bowels; Vapour of Lead brings on the Palfy; the Dipsas kills by an enormous Thirst; the Amphisbana or Hæmorrhous, by occasioning a Bleeding out of the Ends of all the Capillary Arteries; the Seps, by Putrefaction and Gangrene; the Physeter, by inflating or blowing up the cellulous Membranes all the Body over, fo that the wounded Perfon shall in a fmall Time be fuffocated, and as it were buried within his own Skin. Some do chiefly affect particular Parts of the Body, as Cantharides the Bladder; Opium the Brain; the Solanum Furiofum the Eyes, by taking away the Sight; the Apium Rifus or Herba Sardoa, the Diaphragm, by throwing it into tremulous Concuffions, and

and fo imitating Laughter. Others, again, are highly noxious to many Creatures, and yet are the Food of others; fo Goats eat Hemlock; Hogs, Henbane and Mandrake; Storks and Oftriches eat Serpents and Toads; Hens and Marmofets devour Spiders greedily; and Swallows have been, in fome Parts, obferved to feed upon *Cantharides*.

Many more Inftances of this wonderful and inexplicable Variety of the diffinct Powers of Poifons might eafily be brought; but none fo intirely eludes our Search or baffles our Reason, as the Virus of Pestilent Fevers; infomuch, that no Writer has been fo weak or fo hardy, as to undertake an Explanation of the peculiar Indoles or conftitutive Principles of their Miasmata, any other Way, than by making loofe and vain Conjectures; the Ancients attributing the Caufe to Forms and occult Qualities, and fome of the Moderns to yenomous Volatile Salts and Ferments, others to imperceptible pestiferous Infects, &c. fo that the Matter is still left as abstrufe and mysterious as before. But this is certain, that there must be fit Conditions in the Air to foment and propagate fuch Particles, befides an Aptitude and pre-difpofing Crafis in the Juices of the Body to receive and entertain them, for which fome Men are more qualified than others.

However,

However, this or any other Halituous Infection may be communicated many Ways, and principally by the three following; viz. 1/t, By immediate Contact of the diftempered Subject, either living or dead, his Clothes, Spittle, or the like; 2dly, By infpiring the Contagious Effluvia into the Lungs along with the Air, or by fwallowing them down into the Stomach along with the Spittle or Food; thefe two Ways are prefumed to be the most ordinary; and 3 dly, By being from the ambient Air infinuated or imbibed into the Abforbent Pores of the Skin, and fo mixing foon with the Lympha, and then with the Venous Blood, along with which it is directly carried to the Heart; for the whole exterior Surface of our Bodies is immenfely full of Abforbent Pores and Veffels, that arife from a fine Net-work or Intertexture of fubcutaneous Veins: This has been observed by Ruysch and Eustachius, and the Truth of it is confirmed by many undeniable Experiments: But the Danger of being feized this Way is very different, according to the Diftance from, or Nearness and Vicinity to the infected Perfon or Place. It has, of old, been a popular Remark, that Contagious Difeafes are caught frequently, not only after great Debauches with ftrong Liquors, by which the Spirits are the next Day much prostrated, but even upon any Dejections of Mind,

Mind, Frights, and the like, particularly in the Cafe of the Small-Pox; and this is vulgarly imputed to the Animal Spirits retiring to the Center, and gathering about the Heart, and fo leaving the Out-lets or Avenues unguarded: Let the Reafoning be how it will, the Obfervation is of good Weight; and I have often had fome Grounds to think, that it might take place in This MALIGNANT FEVER too, having feen it lay hold on moft of thofe, who were under the greateft Uncafinefs and Apprehenfions about it *.

The Nature of this Diftemper might long ago have been much better underftood, and a more certain Method of Practice found out for it, if fome difcreet and ingenious Practitioners, who were equal to fuch a Tafk (of whom I am perfuaded there have been feveral here at Times) had only waited calmly and leifurely at the Beginning of its firft Appearance, and weighed with due Attention the regular Courfe of the Fever, obferving carefully the Rife, the Increafe, the gradual Succeffions, and the Recefs of its Symptoms, neither diffurbing their Conftancy, nor inverting their Order, by Bleeding, Bliftering, Purging, $\mathfrak{Sc.}$ and

* Multi ex folo timore & imaginatione inciderunt in Febrem Pestilentialem. NICHOL. MASSA.

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only giving proper Diluents and Refolvents, and (if Circnmftances required) a few of the eafieft and mildeft Medicines: By this means, both the Safety of the Community, and poffibly the Health of the individual Patient, might be better confulted, and the Method of Practice reduced to a very great Exactnefs and Certainty. But unluckily, either too much Impatience on the Side of the Sick, or too great Haftinefs, Sufficiency, or Prepoffeffion on the other, has hitherto prevented the World's being obliged with any eftablished Rules. In this Posture then, not only of Uncertainty, but even of almost utter Ignorance, how is it poffible to devife and prefcribe any fafe and falutary Remedies, or to be able to distinguish between the Juvantia and the Lædentia? Surely, without a competent previous Knowledge of the Difeafe, no Method of Cure can be fixed at all; and in fuch a Cafe, it must be acknowledged, that the most able Physicians are mere Adventurers, and unfair ones too, in a Matter of no lefs Concern than the Lives of their Fellow-creatures: If the Patient has the good Fortune to recover from his Illnefs, and out of their Hands, it is affuredly more owing to his own Strength of Nature, and happy Temperament of Body, than to their Art or Advice.

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I fcorn to fpeak this with a Defign of giving the least Offence to any of the Fa-culty, even in its inferior Branches, but purely out of Love to Truth, and with a Candor becoming an honeft Mind.

However, for the Unfuccefsfulnefs of the common Practice, there may be feveral more immediate Caufes very juftly affigned. The first is, either the mistaking this Malignant Difeafe for a common Inflammatory Fever, and treating it as fuch, even when evident Signs have been difcovered of an uncommon Malignity; or the being inadvertently overfwayed by the vulgar Opinions, that these Sort of Fevers are truly Bilious. The fecond is, giving precipitately too many and too great a Variety of Medicines, when it is certain, that Nature in all her Diftreffes and Complaints, as a good Oeconomist, requires but a few, and is fure to be hurt by Numbers, the Cure depending always on the right Choice, and not on the Multiplicity or Quantity. The third is (befides an almost invincible Prepoffestion in favour of an old deeprooted Opinion) a strong vulgar Prejudice against any Politions that are new: The ignorant Many never fail to raife early Clamours, when they find Feverish Indifpolitions treated in a Manner very different from what they may have feen used in their own Famlies on common Occa-D 2

Occafions, and perhaps attended with Succefs; and as they are weak enough to imagine all Fevers to be alike, and of one and the fame Species, a Phyfician muft undergo their Cenfure, if he neglects or difcourages Bleeding, Bliftering, Vomits, &c. Fourthly, the obstructing or preventing Nature's own Way of operating by the Evacuations just mentioned, and fo throwing all the Symptoms into a perfect Anomaly and Confusion; that often there is a meer Impoffibility to affwage the Hurry, or repair the Mifchiefs committed by them. There are many Practitioners in this Island, (exclusive of a few Graduate Physicians) and fome among them Men of good Understanding and Abilities; these are generally first sent for, before a Physician is called upon: To fuch I have many times explained my Thoughts on this Subject, and convinced them by my Reafons : Yet I have often lamented, that they had not been able to withstand the Solicitations and Importunities of the fick Perfon, or of his Relations and Friends, but were prevailed upon to Bleed, and perhaps Vomit and Blifter too before I came,

By what I have already advanced, it may be eafily perceived, that I do, in a great measure, forbid the ordinary Evacuations, by Blood-letting, Emetics, Veficatories, or Purgatives, in this Pestilential Fever,

Fever, in which, from long and attentive Observation, I declare them to be generally pernicious and destructive in their Confequences, I mean, in the Manner that has been ufually practifed. Vomits and Blifters I do utterly difcard; but Bleeding and Purging, with proper Reftrictions and Cautions, may fometimes be allowed of in certain Cafes, and at certain Times, when they may not only fafely, but must neceffarily be done, as shall be shewn hereafter in a proper Place: However, the Phyfician must be exceedingly wary, and very diligently weigh, how far, when, and on what Occafions, they may be of Ufe. For what I have afferted I shall offer my Reafons, which I hope will appear fufficiently cogent and convincing to every Rational Man, as well as to Judges in Phyfic.

Firft, As to Bleeding: I have already fhewn the Texture of the Blood to be here over thin, rarified, and diffolute, with a plain Tendency to Mortification, which it is well known that Bleeding will promote, by giving more Room for Expanfion and Rarefaction, and fo occafioning a further Liquefaction of the circulating Fluid, as well as by producing Weaknefs and Proftration of Spirits: This Lofs of Spirits is very feverely felt in the Courfe of the Difeafe; and much more fo, when the

the Operation had been performed with a liberal Hand, or repeated two or three Times, as has been too often practifed. For the Truth of this Observation, I appeal to all who have been converfant in the Bufinefs of Medicine here during this reigning Conftitution, who I am perfuaded will readily own, that taking away Blood in a large Quantity or often, and efpecially after the first Day, has always aggravated the Difease, and exasperated all the Symptoms, and laid a fure Foundation for inevitable Ruin. I must acknowledge, that when I am very early called, if the Patient has been a very hard Drinker, or großs Feeder, or is of a fanguine Complexion and full Habit, or the like, I order a Vein to be opened, and take away fome Ounces of Blood, more or lefs as Circumstances feem to me to require : But I am for the most part sparing, and always cautious of repeating it again; having ever found, that even this one Operation has certainly given a manifest Exacerbation to all the Febrile Phænomena. In phlegmatic Conftitutions I feldom allow it to be performed at all, and I am fure I have feen many fuch fuffer for admitting it. One main Inducement to Bleeding, befides those above set forth, is, that it gives an Opportunity of examining the Blood's Confiftence, and the Colour and Nature

Nature of the Serum, whereby a more diftinct Idea of the Diftemper may be formed. However, I aver, that I have often very happily fucceeded, where the Perfons have not been bled at all, tho' of the groffeft and most plethoric Habits.

'Tis true indeed, that common Fevers, in these hot and Sun-burnt Parts of the Globe, do generally make a much quicker Progrefs than in colder Climates, and confequently require large and fpeedy Evacuations at the Beginning; for which Reafon Recourfe is had here to Venefection almost upon every little Heat that exceeds the Natural, and often both idly and ignorantly: Nay, the Vogue for it is fo great, and the Cuftom fo common, that every raw unexperienced Practitioner (perhaps just emancipated from an Apprenticeship) will immediately use the Lancet, when he does not know the Diforder, or what elfe to do: Of thefe abfurd Proceedings there are too frequent Instances. By fuch Dabblers in Practice, I have known Blood to be drawn in the Dropfy, in a Palfy, even in the Paralytic Member, on which a Gangrene has fometime enfued, in deplorable Tabid, and in low Hysterical Cafes : By fuch, I have known Blifters applied to the Small of the Back for the Pains of Gravel, to the Throat for a Quinfey, (fach

Quinfey, and to the Pit of the Stomach for the Cardialgia : By fuch I have known Emetics administred in the Iliac Paffion, in Angina's, in Confumptions, &c. in the very Agonies of Death itself, when all poffible Hopes of Relief were abfolutely over. By fuch, likewife, I have known Anodynes given in the worft Apoplectic and Lethargic Cafes; and Purges ordered during the Eruption of the Small-Pox, early after Child-bed Labour, in the loweft State of Confumptions, and in the Beginning, or even the Height of the Colica Pictavorum; in which laft Cafe there often enfues, either a Lofs of Limbs and Speech, or a Mortification of the Ileum, in that Part where the Spafmodick Conftriction is feated.

By the way, as I have juft mentioned the Dry Belly-ach, I beg Leave (though 'tis not to my prefent Purpofe) to obferve, that it is a Diforder as eafily to be managed, and as fafely to be cured, as any of the whole Tribe of Difeafes incident to the human Body, and that merely by *A*nodynes mixed with *Antibyfterics*, given carefully at proper Intervals, and in fufficient Dofes, viz. two or three Times in the Space of every twenty-four Hours, until, by an intire Abfence of Pain, the Conftriction or Spafm appears to be quite gone over; and then any mild Purgative (fuch

(fuch as is not of too windy a Nature, as Manna, or the like) will be useful to compleat the Cure.

I cannot avoid likewife taking notice here (though it is out of my Way) that a very odd and unwarrantable Practice has obtained for many Years among feveral of the Plantation Practitioners in this Island, of giving Calomel in Inflammatory Fevers, when the Blood appears to be much loaded with Size, in order, as is pretended, to remove its Sizinefs, by rendering its Particles thinner, or lefs vifcid and cohefive. This Practice is much condemned by all judicious Phylicians at Home: And if these Gentlemen did but thoroughly understand the true Nature of the Size, and the inward Operation of Mercury, I am perfuaded they would be more cautious of playing with fo dangerous a Weapon. The Thickness or Lentor of the Blood cannot be removed at once, or of a fudden; but many Days are required to reduce it to a due Fluidity; and this End is to be gained chiefly by Evacuations, and a plentiful Ufe of Refolvent Diluters. The Serum of the human Blood, in all Chymical Proceffes, does exactly refemble and answer to the White of an Egg, and is coagulable by the Heat of Fire, or in rectified Spirits of Wine: Now let us fuppose the Heat of the Body and the circulating Fluids

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to be by any Means (particularly by a Fever) fo much increased, as greatly to exceed the Natural; it will follow, that many ferous Particles will receive fome Degree of Coagulation, and fo form themfelves into Sizy Ramenta or Filaments, as the Albumen is foon observed to do, when put into hot Water, though many Degrees below that of Ebullition. Befides, it is known to every one who has been but a little conversant in Physic, that Blood drawn immediately at the Beginning of a Fever, shall most commonly be very free from Size, and of a fine florid Complexion; and yet, after twenty-four Hours, take more Blood from the fame Perfon, its Surface shall be covered over with a blueish or whitish glutinous Substance, the Serum having then undergone a fort of Coction (if the Boldnefs of the Expression may be excused) from the intense, unnatural Heat of the Body, and Ardency of the Fever. I pafs over many other Physical Reasons, and fhall only mention, that the fame may indeed be caufed likewife by a large Ingurgitation of Spiritous Liquors, or by over-violent Motion and Exercife, of Riding, Dancing, Running, Wreftling, Boxing, and the like. Can it now, with any Shew of Good Senfe, be imagined, that * Dose of Sweet Mercury or Calomel can loofen

loofen and diffolve fuch Concrefcencies and Cohefions? As to Mercury's operating inwardly, it is granted, that, when mixed with the Blood, and paffing along with it through the Heart, it affects to take its Course almost in a direct Line through the Ascending Trunk of the Aorta up to the Head and fuperior Parts; for by the Laws of Hydraulics, the weightiest Particles, of equal Minuteness and Sphericity, will always flow quickeft and in the Araightest Lines; and every Anatomist can tell, that this upper Paffage from the Heart is much more direct than that through the Curve of the Descending Trunk. Indeed where there is no Fever, and the Velocity of the Blood is not extraordinary, the Mercurial Globules pafs along eafily enough, and without Danger, or are fometimes invifcated in the Salival Glands, and fo raife a Ptyalismus; but when the Velocity of the Blood is exceedingly increafed, as in Ardent Fevers, what Ruin and Devastation must this active Medicine commit in the foft Substance of the Brain, among Veffels of inconceivable Exility and Tenderness? I have been, on some Occafions, Witnefs of its fevere Effects, and I then observed, that in some Time after the Dofe was taken, the Perfon has grown Delirious, and foon after died in a miferable raving Condition. Some, 'tis true, E 2 may

may happily efcape; but I am certain, that if only one in fifty perifhed by that Means, it were enough to deter a wife Man from ever giving it again on the like Occafions. I have never yet heard of *Mercury* being given in this Malady I am treating of, and I hope I never fhall, as no doubt it would here act an uncommon mifchievous Part. Perhaps this Digreffion may carry its own Apology with it, as being a Monitory or Warning againft fuch Miftakes.

Secondly, As to Emetics: These come ufually next in Order, and the unfortunate Patient must immediately after Bleeding have a Vomit cramm'd down his Throat, especially if he shews any Signs of Sickness of the Stomach, or Oppression about his Breaft; even the By-ftanders will ufually folicit hard for it; and a modeft Man may not always have Firmnefs enough to refift their clamorous Inftances. I have too often by Experience found, that Vomitives enrage the Distemper, raife an unappeafable Hurry and Tumult in the Spirits, grievoully affect and irritate the Nerves of the Plexus Cardiacus, and all the Nervous Membranes about the Pracordia, give a further Diffolution to the Blood, and in short (if I may use the Phrase) raise a Dæmon that is fcarce ever after to be laid, but by the Death of the Patient. I have indeed

indeed fometimes feen the fick Man efcape with much Difficulty through this Danger; but, generally speaking, the Effects of such an Administration in this Distemper are fo dismal and surprizing, that the Stomach will receive neither Medicine nor Sustenance for the future, until after the most laborious and painful Concussions, Hiccups, and almost Convulsive Contractions of the Parts, Signs of inward Gangrene discover themfelves, and Nature's Strength is at length quite spent and worn away.

Thirdly, As to Veficatories: After Vomiting premifed, this is ordinarily the next Step taken by the unwary Practitioner; which Cuftom has made almost facred, and the Fear of Reproach almost unavoidable, at least in these Parts; for I am fully fatisfied that more Blifters are made use of yearly in this and the other Sugar Colonies, than in the united Kingdoms of Great Britain. It is well known, that the Salts of Cantharides do thin and attenuate the Blood, and therefore in Intercurrent Fevers they are very commonly applied to rectify the Thickness and Viscidity of it, and frequently are of remarkable Advantage and Ufe; but in this State of Colliquation, it is easy to perceive, that fuch Applications can be of no Service, but on the contrary must be highly detrimental: They caufe a greater Solution and Commi-

Comminution of the red Globules, exalt the Acrimony, and fuperadd a quicker Force, Poignancy, and Activity to the Infectious Particles; befides, by inflaming the Bladder, stopping the Secretion and Excretion of Urine, and by the other Torments they produce, they increase the Reftleffnefs of the Body, and the tumultuous and inordinate Motion of the Spirits: It is notorious too, that in this Fever, when the Blifters are first cut, so deep a Rednefs is usually feen in the naked Flesh. that some Degree of Mortification may juftly be dreaded and foon expected, unless happily prevented; the Colour many times changing into purple, plumbeous, livid, and at length almost perfect black, with a Quantity of Sanious Blood oozing through the bliftered Part, even when the Body is still alive, and often after Death.

Fourthly, As to Purgatives: I can with Truth affirm, that there is very little Occafion for this Administration, provided copious Sweating has been provoked and continued for a fufficient Time at the Beginning of this Difeafe: And, in particular, I can aver, that the unwary giving of ftrong Purges after plentiful Difcharges by Sweat, especially if often repeated, are exceedingly noxious; fo likewife, when they are given too early, and during the Height of

of the first Feverish Tumult, or in such large and full Dofes, as the Body might have been accustomed to in a better State of Health: I have observed them very apt, in this diffolute Condition, to occafion either an Hypercatharsis or a Diarrhæa, by means of which, the Patient's Strength is foon fo proftrated and exhausted, that he wants Spirits to fupport him through the Remainder of his Illnefs; and confequently, the Disposition to Mortification is remarkably promoted, and a deadly Coldnefs comes on in the extreme Parts; infomuch that the Tragedy foon ends in black bloody Stools and Vomits, Fainting, Syncope, and Death.

In fome Conflictutions I have met with a natural Pronenefs to Alvine Dejections: And here I think it requires the Phyfician's beft Art and Diligence, either to reprefs them feafonably, or to manage them fo dextroufly, as to make them of real Service to the Patient. In others, I have known a fudden Flurry of feveral Stools unexpectedly arife, which have fo furprizingly funk the Forces of the fick Perfon in a very few Hours, that the moft fpeedy and fludious Endeavours were required to prevent the impending Horrors, and that frequently too without Succefs.

I ought to obferve here, that the fatal black Stools and Vomitings are vulgarly fuppofed

fuppofed to be only large Quantities of black Bile or Choler; which falfe Notion feems to be owing to that fixed unhappy Prejudice, that the Fever is purely *Bilious*. But let any one only dip in a Bit of white Linen Cloth, he will be foon undeceived, and convinced that fcarce any thing but mortified Blood is then voided; for the Cloth will appear tinged with a deep bloody Red or Purple, of which I have made many Experiments.

Notwithstanding what has been faid, I do readily acknowledge, that there may be fometimes just and fure Indications for the prefcribing of light Lenitive Purges, fuch as Manna, Caffia, Lenitive Electuary, or the like; which, for greater Security, I recommend to be given diffolved in Sack-whey, in fmall Dofes, with convenient Intervals between each Dofe, until fome Tokens are felt of approaching Purgation. But there are certain enough Rules, if duly attended to, whereby to judge, when and how far the Use of them may be fafe, advantageous, or neceffary: The great Rule, in my Opinion, should be this, that the Sudorific Method has been unhappily rejected, or the true and proper Seafon for it fuffered to elapfe; to which may be added these others; viz. a Costiveness of Body, full Bowels, Uneafinefs from the Retention of Excrements, Abatement of firft

first Feverish Impetus, Sufficiency of Spirits and Strength, Obstinacy of the Yellownefs, and the like. In this Manner, on fuch fure Indications, and with fuch Cautions, I think the fame Lenitives may be repeated two or three Days running, as the Circumstances of the Patient concur to require them, or fhew him capable of bearing them: Nor need the Practitioner be deterred, though the Vomitings do still remain, or even the Yellow State is come on; provided the Yellownefs does not fhew itfelf within the first two or three Days, nor is very deep, plentiful, and univerfal; for in fuch a Cafe it never fails to be a mortal Prefage, as even all the old Women and Nurfes that tend the Sick can vouch; fo far is it from being the Happy Crifis that fome have imprudently alledged. When the Bowels are kindly opened by these Means, I have with Satisfaction observed, that very putrid Fæces were expelled, the Secretion of Urine enlarged, the Inteftinal Glands cleanfed, much of the corrupt and infected Serum carried off, and confequently the Yellowness either prevented or fenfibly leffened, and in fome meafure removed. But great Care should be had to keep up Nature's Strength and Spirits, by giving now and then a little warm Madera Wine, Canary, or fuch Cardiacs F

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Cardiacs as are not too inflaming. However, I muft give this Notice once more, that the Purging I have here recommended, is for the moft part rather from Neceffity than Choice, there being no other practicable Way of Safety now left; and this principally from having unadvifedly omitted the feafonable Extrusion of the Morbific Matter by Sweat, while the shortlived Opportunity prefented itself.

I flatter myself that I have now given fatisfactory Reasons for what I had fo ftrenuoufly advanced concerning the Danger, and against the improvident Use of the above-cited Evacuations. And I call upon every candid Practitioner, who is capable of judging right, and has had Occafions of long Experience in this Difeafe, to declare, whether he has not found thefe Obfervations to be agreeable to Truth, as well as his own Reafon; or whether he has ever once feen the fick Perfon receive real apparent Relief or Advantage from any of the aforefaid Administrations, except in the Manner, and with the Cautions I have now advised, but rather (indeed almost ever) exactly the Reverse; though poffibly here and there a lucky Patient might have paffed with Life through that Ordeal Trial.

As I am now upon the Subject of the Lædentia, 'tis proper, before I proceed to the

the Method of Cure, to give fome neceffary Cautions concerning the Ufe of Anodynes. That Anodynes contribute to expand and rarefy the Blood, as well as often to induce Gangrene, No-body, I believe, will be hardy enough to deny; and fo far they must in this Disease be undoubtedly hurtful: But, befides the phyfical Reafons, what I have principally to offer from my own certain and constant Observation is this, that upon taking an Anodyne (which the Patient himfelf often fues hard for to obtain a little Reft, or to ftop his wearifom Reachings) the Yellowness thews itself generally the next Morning all over the Surface of the Body and the Whites of the Eyes: Indeed the Fever will thereupon feem fomewhat to abate; but I have demonstrated before, how unhappy and almost deplorable his Condition then is. But if there should be any Cafe at all that will any wife admit of an Anodyne, it is only when a Diarrhæa or Hypercatharsis calls loudly for inftant Relief; and even then, I am of Opinion, that the Dofe ought to be light, and of the rich Alexipharmac Kind, fuch as the Confection of Andromachus, or the like.

I must here subjoin another Remark, which I think is of no fmall Confequence. Almost all the best Writers in Physic have F 2 ftrongly

strongly recommended a free Use of nitrous and subacid Medicines and Liquors in all Inflammatory Fevers of the Intercurrent Kind, and with good Reafon too, as they flake the Thirst, affift in attenuating the thick Blood, and kindly move both by Urine and Perfpiration: But in this peculiar Fever I have had many Opportunities of being perfuaded that they offend the Stomach, and create a Nausea and Vomiturition, perhaps by their too chilling and refrigerating Qualities: It is certain, that Nitre here in any Form has these Effects; either in its pure Salt, or made into Sal Prunellæ or Polychreft: I have even found, that fweet Spirit of Nitre (tho' corrected by an equal Quantity of Sal Vol. Oleof. or Spirit of Hartfhorn, by which it is changed into a Sal Neutrum or Compositum, and so rendred a gentle Diaphoretic) fits very ill here on the Stomach, and is foon loathed by the fick Perfon. The very vegetable Acids, as Lime or Lemon Juice (I have often remarked) feem to give offenfive Irritations to that Bowel, though only used to acidulate Sage Tea.

When an accurate Knowledge of the Nature and Hiftory of the Diftemper is obtained, and the Phyfician is now able to form a just Idea of the true Causes that diftres and difturb all the vital

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tal, natural, and animal Actions of the Body, he will foon difcover the *Caufa Proxima*, and by attentively confidering and comparing the Remedies that have hitherto been found either nocent or beneficial, he cannot well be at a lofs in pitching upon the right Method of Cure, or in the Choice of proper Means and Inftruments of compaffing that defirable End *.

Whoever has been converfant with Authors who have treated of the Plague, must have found among them (Bottallus and a few others excepted) an universal Confent, that all Evacuations, by which the Tone of the Blood is broken, and the Spirits exhausted, are attended for the most part with fatal and calamitous Effects; and that no Remedies give fuch fafe and fure Relief as generous Alexipharmacs, Diaphoretics, and Sudorifics. The Distemper now reigning is certainly of the Pestilential Kind, or at least of the neareft Affinity and Proximity to it. It is demonstratively made more Malign and Mortal by freely using Evacuations, and it fubmits without Difficulty to the right Ufe of Alexipharmacs, fo given as to open the

* Medicus, fi quidem suffecerit ad cognoscendum, sufficiet etiam ad fanandum. HIPP. De Arte.

Pores

Pores without inflaming the Body. And it really feems very ftrange to me, that this rational Method of throwing out the morbid Matter from the Vitals by Sweat, should be fo long despised or overlooked, fince Nature herfelf appears, from the Beginning, very ftrongly to indicate and endeavour to relieve herfelf this Way, the Skin being then generally moift, and the Pores open and well disposed for the Purpose. The Poison here is Spirituous and Volatile, and to be expelled from the noble Parts only by Effluvia, through the Chanels and Pores of the Skin that the whole Circumference of the Body is most plentifully furnished with, along with the infected ferous Particles. When thefe acrimonious and noxious Particles are caft off by a large and continued Diaphorefis and Sweat, the remaining Serum becomes better and purer, and the red difunited Globules are now at more Liberty to attract one another and come into fresh Cohefions; by which Means, the Tone of the Blood begins to be mended, its Texture ftrengthened, and a firmer Foundation laid for Recovery. But this should be attempted (generally speaking) within the first twelve Hours from the Invation, before the Infectious Labes has made too great a Progress, and given too deep an Inquination to the Juices; and I ought to inculcate

culcate this Remark with great Earnestnefs, as I have with Certainty found, that nothing is more detrimental to the Patient than Lofs of Time, nor more apt to frustrate all our Services and Endeavours.

I must here give Notice, that when I mention the Words Sweat and Perspiration promiscuoufly, in Compliance with the more gross Use and vulgar Acceptation of those Terms, I am well aware, that in a physical Exactness they are two different Things that are performed in a very different Manner, and by different Organs. And indeed nothing is more common, than to express onefelf by a commodious Phrafe or Term, whofe Senfe may be at once apprehended by an impartial Perfon, though it be not strictly justifiable; as when by the Word Nature, we mean either the Vis Vitæ, or the Laws of the Animal Oeconomy, or even the whole Creation; and fo of many others: Scarce any one has ever wrote but might incur Cenfure without this Licence given him, and every Man of Candor will allow the Benefit of it, when the Defign of the Author is honeft and benevolent.

But, however, it may be requisite for my prefent Purpofe, and for the more fully informing those who in these Parts may poffibly have wanted the Opportunities of

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of receiving proper Lights, to give fome fhort Explanation of the Diffinction I have made of these two Cutaneous Evacuations; and to fhew how great a Quantity of Humours usually passes by the Vessels of the Skin, and how eafily any noxious Matter may be protruded through them. There is an infinite Number of fmall Emissary Ducts arising from the Miliary Glands under the Cutis throughout the whole Periphery of the Body, that have each of them their Orifices opening under the Scales of the Epidermis, in the Bottom of its Furrows, and each endowed with a proper Valve to open or shut, as Occasion requires: These are the true Sudorific Veffels. But befides thefe, there are two other Sorts that fometimes emit Sweat; viz. one Sort called the Vafa Ruyfchiana, from the Discoverer Dr. Ruysch, that arife in most minute Tubes from the fine Intertexture of the Subcutaneous Arteries, and open likewife outwardly; the other Sort are large, perpendicular, hollow Cylinders, through whofe Sides or Walls inwardly a great Number of Sudorific Pipes exhale their Contents into the Cylindrical Cavities, where the Matter is fometimes fo condenfed and indurated into a darkish Paste, as to be mistaken for Worms in the Skin, efpecially in the Face; upon which, People are apt (igno-

(ignorantly enough) to fqueeze those tender Veffels between their Nails, in order to prefs out the imaginary Worms, and often do much Mischief thereby. The Perspiratory Veffels open obliquely in the Area or Sides of the Furrows of the Scarf-Skin (for the Tops of the Ridges, observable to the Eye in the Ends of the Fingers, confift merely of fmall Nervous Papillæ for the more exquisite Sense of Feeling) and are of fo great Subtilty, that Leeuwenboek has computed a common Grain of Sand will cover One hundred twenty-five Thousand of their exhaling Mouths: Thefe are perpetually (except in cafe of Sweat) transpiring, in an invisible and infenfible Vapour, fuch Particles of the Solids, as are by the Force of Circulation abraded from the Sides or Ends of the fmallest Vessels, or fuch Particles of the Fluids, as are, by their too great Minuteness and Volatility, rendred unfit for the Nourishment and Repairs of the folid Parts, and have perhaps acquired fome degree of Acrimony by their great Attrition and Comminution; and it is taken for granted, that a Quantity of volatilized Oils and Salts, which it might be dangerous to retain longer, are thus conftantly thrown out of the Blood. These Organs of Perspiration are fo different from G thofe

those of Sweat, that 'tis now become a well known Maxim, the more a Man fweats the lefs he perfpires, and vice versa, the more he perfpires the lefs he fweats; for when by a large and ftrong Appulse of Humours the Sudorific Veffels are enlarged in their Diameters, the Perfpiratory are thereby neceffarily fo compressed, as not to be able to transmit much Vapour; and, on the contrary, when the Diaphoretic are most open and free, the others must have their Sides collapse, or be preffed together fo clofe, that little or nothing can transude through them. Either of thefe Evacuations is very great and expenfive, though more or lefs, according to the Seafon of the Year, the Climate of the Country, the Age, Sex, Temperament, Exercife, Regimen, Health, or Sickness of the Perfon: The old Difeafe called Sudor Anglicanus may evince, that all the Juices of the Body might be exhausted in a little Time by the former; and Sanctorius has demonstrated, that by the latter Five Eighths of all that is eat and drank are imperceptibly carried off, and that it exceeds all the other Excretions of the Body put together; and it is found to be always largeft, when the Atmosphere is most cold, dry, and heavy, or the Air leaft impregnated with Moisture and Vapours, which

in BARBADOS, &c. 51 which remarkably intercept the Atmosphere's incumbent Weight.

A Contemplation of this wife and wonderful Mechanism (of which what has been now hinted of the exterior and fuperficial Parts, will ferve at least to give fome imperfect Idea) and a Confideration of the conftant Wafte of the human Frame, by infenfible Perfpiration and otherwife, will, I hope, excuse my adding here a few curfory Remarks: 1/t, That the very Vis Vitæ would soon destroy us, were not the Lofs of the Fluids perpetually fupplied, and the Detritions of the folid Particles immediately repaired at the fame Time, and by the fame Force exactly: 2dly, That the true Nutrition of the Body (for I do not mean the fudden Refection from Meat and Drink) is not performed in the large Chanels, nor by the groffer Parts of our Aliment, or even of our Blood, but in the most exquisitely fine and tendereft Veffels, and by Juices that must have passed through innumerable Degrees of Fluidity, before they become perfect and duly fitted for the aforefaid Supplies and Repairs: 3dly, That in the State of Infancy, our Veffels are by much the most numerous, and confequently the Fluids do then vaftly exceed the Solids; in full Maturity, there is as

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it were a fort of Æquilibrium, many of the Vasa minima being by that Time changed into Fibrous Elastic Stamina, for the due Strength and Firmnefs of the Frame: In Old Age, the Veffels are by much the feweft, and confequently the Solids do then greatly exfuperate the Fluids: 4thly, That the Decrement or gradual Decay of Old Age is owing to nothing elfe than to a daily Lofs of fome of these finest Vessels (as well the internal as the cutaneous) through Compression, Concrefcence, and Coalition, to which the refisting Weight of the Atmosphere, Mufcular Motion, the very Circuition of the Humours, and the never-ceasing Pulsations of Myriads of Arteries, do chiefly and conftantly contribute; until at length there is fcarce any Circulation but in the Vafa Majora, the Skin grows all over withered and imperspirable, the greatest Veffels (whofe Sides are made up only of an Infinitude of smaller ones) becoming hard and compact; the Tendons turning into meer Cartilages, and the Cartilages into Bones. 'Tis probable fuch Obfervations may not be intirely useless to many of the Barbados Practitioners, though there is Danger of their being unprofitable to the very unlearned Reader, and perhaps impertinent to the learned.

I come

I come now to defcribe my own Method of Practice, which Experience and uncommon Succefs have fufficiently juftified, where-ever my Affiftance has been fought for in Time.

When I am called to a Patient, I first examine if he is fenfible of acute fhooting Pains in his Head and Small of his Back, and of Oppreffion about the Vital Region. If I find he has those Complaints along with the other early obvious Symptoms above fet forth, I acknowledge the Prefence of the Malignant Gueft, provided there can be no reasonable Apprehensions of the Small-Pox. My next Enquiry is, if he has been Bled; if not, I then frequently order one moderate Draught to be taken from his Arm or Jugular, proportionable to the Conftitution and other Circumstances of the fick Person, as has been before mentioned on the Subject of Bleeding: But if I find he has been already over largely bled, or often, and efpecially if he has been haraffed with an Emetic too, I judge him to be at the best in a very Lubricous Situation, the Stomach generally at that Time receiving Medicines with Reluctancy, or with great Averfation rejecting them back, which makes it exceedingly difficult to extort fuch constant and diffluent Sweats as are required: But if, fortunately, nothing at all »

all has been done to throw fuch fhocking Impediments in the Way; and if the happy early Opportunity is ftill fubfifting, I have Encouragement enough to hope and expect the beft, and fo proceed in the following Manner.

I order the fick Perfon to keep carefully his Feet, Arms, and Shoulders under the Bed-clothes, and his Body to be all over well covered with the Sheet, and a warm Coverlet or Blanket; and this I give strictly in Charge to the Nurfe who is employed about him, with thefe further Directions, that during the Time of Sweating, the Patient be not fuffered to lie too fupine, but with his Body fomewhat raifed, and his Head more elevated than ufual, upon a Pillow that is not over foft or finking; let his Head be covered only with a thin Cap, and not kept too warm; it would not be amifs if it were shaved too, if such a thing in this Hurry could be readily and conveniently done: When the Sweat is fufficiently over, let him endeavour to fit up as much as he is able, or be now and then supported in such an erect Pofture, if the Giddiness which frequently attends all the Stages of this Diftemper will permit: By thefe Cautions, too forcible an Appulfe of Blood may be warded off from the Brain, and the Coma and

and *Phrenitis* either prevented, or at leaft mitigated confiderably. Then I immediately (after these general Orders given) prescribe this, or the like *Alexipharmac* Julep; viz.

R Aq. Lact. Alexiter. Zv. Theriacal. Ziii. Spir. Lavend. Comp. Ziii. pulv. è Chel. Cancror. comp. Zi S. Lap. Contrayervæ Đi. vel ZS. Syr. de Croco q. f. ut f. Julep. cujus fumat cochl. ii. omni bihorio fuperbihendo copiosè Thæam ex foliis Salviæ confectam, vel liquorem poffeticum cum Vino Canarienfi alteratum, vel decoctum radicis Chinæ.

Sometimes, if the Patient does not readily fweat, I order the following Powder to be given every Four Hours; viz.

B Pul. Gasconic. gr. xii. Lap. Contrayervæ & Croc. Angl. ana gr. iv. Cochinill. gr. vi. Camphor. gr. ii. m. f. Pulv. pro unâ dosi, sumend. ex haustulo Vin. Maderens. meracioris cum aromatibus calefact. calidê superbibendo ut priùs liquores quosvis fudorem moventes.

The Tea or Poffet-drink I direct likewife to be often given him at other Times. Venice Treacle, Mithridate, and the like, are recommended by many Writers of Note on these Occasions; but, with Submissi-

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on to fuch great Authorities, I apprehend their Opiate Ingredients and Narcotic Qualities are fufficient to forbid the Ufe of them in this Difease, at least unless a Number of finking Stools make it neceffary. When the Eruption of Sweat is by thefe Means continued in a copious and profuse Manner for Twenty-four Hours or more, it feldom fails to affwage the Fury of the Fever, gives a sensible Relief to the Anxiety, and ufually prevents or overcomes the great Propenfity to Reaching and Vomiting, Jactations, Yellownefs, Sicknefs, &c. But I generally endeavour to keep up the Sweat or Moisture of the Skin (though in a much more moderate Manner) for two or three Days longer, and a good Diaphorefis during the whole remaining Courfe; which is eafily done by frequent Supplies of the aforefaid Liquors. After the first Day, I freely allow the Patient thin Chicken Broth as often as he defires it; and I always found it ufeful and neceffary thus to fupport Nature's Strength, by a Nourishment so fafe, smooth, and digeftible, and of fuch ready Affimilation with the Blood; befides, he might poffibly fink under those expensive Sweats, if his Forces were not duly fuftained : And for the fame Reafon too, at this Time, I allow him now and then a Glafs of Canary or Madera Wine a little diluted, befides

befides Gruels and Panada's with Wine added to them, Sack-whey made richer than ordinary, and fuch Kinds of light refectory Nourishment, which now prove to be of great Emolument and Service. If there has been no Stool voided for two or three Days, I admit of a Clyfter of New Milk and brown Sugar being applied, particularly when there is an apparent Uneafinefs in the Bowels from the Hardness of the Excrement, or by retaining it too long: On this Occafion too, and fometimes upon other cogent Confiderations, fuch as obstinate Perseverance of the Symptoms, some Degree of Vomiting still remaining, or Yellownefs not eafily receding, it is cuftomary with me to order a Lenitive Purge, divided into fmall Dofes; viz.

Rhubarb. elect. pulv. 3i. Mann. purisf.35. infund. calidè in Aq. Cinamon. hord. 3iii. Dividatur colatura in tres quatuorve doses sumend. per vices & intervalla, prout opus est. Vel,

Be Mann. optim. Zi. vel Ziß. dividatur in quatuor doses, quarum una propinetur ægro ex liquore possetico prius descripto, quâlibet horâ vel sesquihorâ, donec incipiat turbari alvus.

This perhaps I repeat again more than once, as I fee Occasion, if no evident De-H ficiency

ficiency of Strength and Spirits forbid it. If in the Midft of the Difeafe, but moft peculiarly in its Decline, any Number of loofe Stools fhould fuddenly burft away, as is now and then obferved, I put a Check to them immediately by the following Cordial Clyfter; viz.

Be Diascord. Ziii. vel iv. Terebinth. Venet. Zii. Vitell. Ov. Nº 1. LaEt. Vaccin. rec. Ziii. vel iv. m. f. Cl. statim injiciend. & per aliquod tempus retinend.

It is of the highest Confequence to supprefs this dangerous fupervening Symptom, as foon as poffible; for otherwife, the Body will quickly be reduced to fo low and feeble a Condition, that no Art afterwards can prevent it from falling into cold Sweats, cadaverous Coldness of all the extreme Parts, black bloody Stools and Vomits, and fo into the Arms of Death: And therefore if the Cordial Clyfter (tho' repeated) has not fully obtained the defired End, the Neceffity of speedy Relief is fo urgent and important, that it encourages me fometimes to order a light but warm Cordial Anodyne, fuch as a Dofe of Venice-Treacle, or the like, diffolved in a Glafs of burnt Wine, or even in a Dram of burnt Brandy; which at this great Juncture, and this only, may be repeated again, if it be found still wanting. As

As to the accidental Symptom of Bleeding at the Nose, Lips, Gums, Tongue, or Palate, though 'tis apt to alarm the Bystanders, and frighten the Person himself, yet I have often found it rather to relieve than hurt, provided the Quantity fo lost be not too great or too fudden; for I take this Blood that burfts and forces itself a Paffage through the finest Capillaries, to be fo thin, colliquate, and acrid, that it is rather an Happiness that it thus difcharges and feparates itself from the remaining Mass: Of the great Danger of very large Hæmorrhages from these Parts, I have taken Notice before. The Yellowness ('tis true) will fometimes shew itfelf, at least in some Degree, notwithftanding all the Means that have been used to prevent it: But if the Sudorific Method has been opportunely followed, it generally comes on late, if at all, and the Degree of it is fo light, that 'tis no more than what Nature herfelf (almost unaffisted) can eafily mafter; or if it should be more heavy or obftinate than what was expected, a feafonable Lenitive or two may relieve and remove it. It happens very frequently that the Patient has little or no Refreshment of Sleep for some Nights fucceflively in the Beginning of his Illnefs; but this does in no wife induce me (for Reasons above fet forth) to offer an Anodyne, H 2

Anodyne, or deter me from purfuing my Method with Exactness and Care: For as foon as the Rage of the Diftemper is, by the Means of Sweat and Diaphorefis, overcome, and the Hurry of Nature fenfibly affwaged, as it feldom fails to be by this Treatment, the Patient himfelf begins to reft with Comfort and Satisfaction; his Pains then go over, his Spirits begin to be raifed, a visible Amendment is felt in every Part, and all the Functions of Life return gradually to their natural Order and Conftancy, tho' a fenfible Weaknefs must remain for fome Time. As foon as the Strength is fomewhat repaired, a Lenitive Purge is to be taken, which will compleat the whole Cure, by cleanfing the Body of the Impurities or Feculencies that the putrid Diftemper may have left behind it. This last Purging is so highly necessary, that through the Neglect of it, I have known the Patient fome Time after to be fuddenly furprized with a fevere torminous Diarrhæa, attended with Fever and Deliria; and fo (though happily ftill efcaping) pay dearly enough for his Folly and Obftinacy. During this whole Courfe, I keep the fick Perfon in a Perfpiratory Condition; but as foon as the just Seafon of Sweating is past, I then (besides the Directions before given in Charge) order fome Part of his Covering to be removed, and the Room by

by Degrees to be made fomewhat more cool; for which End, I choofe for him, if poffible, a large Chamber, and not exposed to the hot Beams of the Afternoon's Sun; and I allow fome Air to pafs through, yet without fuffering it to blow upon the Bed; for I have feen the Admiffion of too much (particularly upon a Body uncovered and almost naked, as Patients often choose to lie in this hot Climate) attended with the worst Confequences: In very hot Weather it may be requisite, about the Meridian Hours, to fprinkle the Floor with Rose-water and Vinegar.

I must now earnestly defire due Notice may be taken, that though the Method I use may be faid to be Alexipharmac, yet it is by no means hot, parching, or inflaming; and that this Moisture or Sweat I endeavour to extrude, is rather to be attributed to the Quantity of Tepid Diluents, as Sage-tea, Sack-whey, &c. than to the real Heat of the Medicines themfelves. And I have often thought, that in Malignant Fevers the Alexipharmac Practice has fometimes been brought into Difreputation, either by the Phyfician's over-doing through too abundant Zeal for it, or by using it at an improper Seafon, or for want of Advertence to the great Neceffity of copious Diluters : And perhaps this other Reafon may be properly enough affigned for the

the prefent great Difuse of this Practice amongst most Physicians. In the ordinary Intercurrent Fevers, where the Blood is for the most part Viscous and Pleuritical, the forcible extorting of early Sweat is found evidently to be hurtful, as the hot Cardiac Regimen, which is used for that Purpose, only adds fresh Fuel to the Flame, and often brings on Coma's, Phrenhes, and other dangerous Symptoms, instead of throwing off the Materia Febrilis, which is not yet concocted or duly prepared for Expulsion. The ignorant common People indeed are of themfelves too apt, upon every flight Indifposition, to swallow down a Dose of Venice-Treacle or Mithridate, and fo procure (as they imagine) a cheap Sweat, which no doubt proves fatal to many. It may not be improper to mention here, that the great Observator Doctor Sydenham first attempted to cure the Pefilential Fever by Bleeding, and imagined for fome Time, that he had fufficient Succefs in this Way; but he afterwards thought fit to change this Method for the Alexipharmac, and had the Integrity to own that it proved the more fuccefsful *, as it

* Quin & Febris Pestilentialis causa, cum tenuissima sit, & perquam subtilis, vel in primis morbi diebus, sudoribus difflari potest, suffragante ubique experientia.

SYDENH. De Feb. cont. Ann. 1673. certainly

certainly was the most reasonable; the peccant Particles being in this Cafe fo thin, fubtil, and fugacious, as to be able to pafs nimbly away through the Pores along with the Sweat. However, I ought to observe, that the Administrations which were fo wifely contrived, and fucceeded fo happily in that Peftilential Fever in England, would not quadrate exactly with ours of Barbados; for though they have in many Points a near Refemblance to one another, yet there is this effential Difference between them, that the Blood in the former is described to be Pleuritical or Rheumatical, but in this latter it is exceedingly loofe, thin, and free from Size: And therefore, I apprehend, for Reafons already mentioned, that the Opiate Quality of Sydenham's Sudorific, and the Strength and Largeness of his Purgative Potion, would really be of mischievous Consequence in the Fever I am defcribing; fo that tho' the chief Indications are the fame in both, yet the practical Inftruments must be fomewhat different.

I must acknowledge, that I was formerly misled by the prevailing popular Herefy in my Opinion concerning this Fever, and I treated it for fome Time accordingly; until meer practical Observation (the only true Guide) had convinced me of the Faithless and Insecurity of that Method,

Method, and obliged me to make a clofer and feverer Scrutiny, by examining every Symptom, natural or accidental, with more ferious Attention than what I found had been done to my Hands, and by comparing or balancing the Mifchiefs and Benefits of the common Administrations, still watching Nature's own Biafs and the Indications the fuggested : Upon which I foon found (or imagined I had found) very justifiable Grounds for altering my Practice in the Manner here defcribed. But I can folemnly declare, that (befides the Suffrage of Reafon, which feems to plead ftrongly on my Side) I have fince had the faithful Testimony of many Years Experience. Notwithstanding, I dare not alledge, that this Way will abfolutely never fail of Succefs; for it is eafily perceivable, that the Diftemper itself is of the most dangerous Kind, and a fmall Inadvertency in the Practitioner, or Error in the Patient, may prove equally deftructive, as it often happens even in Diseases of inferior Note: But I can fafely promise, that this Method, under the Management of a prudent Conductor, will always be found much the best and furest of any that have been yet attempted.

I have already pretty fully explained myfelf, how (when the true Seafon of employing this Method has been loft or overlook'd too long) the Ufe of Lenitive Purges,

Purges, under due Cautions and Restrictions, must be called in; and therefore I refer now to what has been faid before on the Subject of *Purgatives*.

But nothing furely could be more beneficial to the Poor (among whom common Sailors, who are the greatest Sufferers, have a Right to be included) than to devife fome Remedy of eafy Purchafe and ready Ufe, which might be at hand upon all Occafions; for the Suddenness of their Seizure, and the urgent Neceflity of fpeedy Affistance, for the most part give very little Time to wait for officinal Compofitions. In fuch Cafes I imagine, that giving immediately, upon the first Invafion of the Symptoms, a good Dofe of warm * Snake-root-wine, then covering the Body well in Bed, and provoking plentiful Sweats for the Space of a Day and Night, by large and frequent Draughts of Sage-Tea, or any other Sudorific Liquids, might be greatly ferviceable, and contribute not a little to overlay the Difease in its Infancy. I own I have never yet tried it myfelf, having generally found other Medicines in Readinefs enough, and likewife through Fear, that if a copious Sweat

* NB. Since the writing of the above, this has been tried with very good Success.

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fhould not quickly flow, the great Warmth of fuch a Draught fhould augment the Fever, and ufher in the whole Train of its difmal Attendants. However, the Practice appears to me reafonable; it has been fometimes advantageous even in the more common Feverifh Cafes, and I leave it to be determined by future Experience.

Nor can I at prefent undertake to write my Sentiments definitively in regard to the Use of the Peruvian Bark, in the Declenfion of this Fever. The Cortex is certainly of known Efficacy in preventing Difpofitions to Mortification, and in ftopping its further Progress when actually begun, as well as in fortifying a weak Tone of Blood; and therefore it is probable, that when the Heat begins to abate, and the Pulse is lowered, this might be the proper Time for administring it, either in Tincture, Infusion, or Decoction: But I declare I could never yet meet a fair and fafe Opportunity of offering it, the Stomach being on these Occasions generally fo tender and delicate, and fo apt to be thrown into Irritations by fuch an harfh unpalatable Drug, that I have not dared to venture upon it. Notwithstanding the Use of it is highly commended by those who have frequented the Guinea Coast, where they are often attacked by ill-natured and irregular Fevers, that are perhaps fui generis,

neris, and peculiar to that unhealthy Maroon Country. This Difeafe may poffibly be changed into an Intermittent after large Evacuations, if the Patient happen luckily not to die under them, before this Scene can be brought about, which good Fortune is much to be doubted, and I am fure he would be very unwife that fhould depend upon fuch a dubious Chance: But fhould the Matter really prove fo, the Service of the Bark is then felf-evident.

It should have been observed before, that the apparent Danger of catching the Infection by diffecting the Bodies of the Dead, joined with the intolerable Stench, that almost immediately issues from them, gives fuch a general Impression of Fear and Horror, that we have hitherto wanted the Advantage of the many Lights that might be obtained by fuch Examinations. But I am credibly informed by an ingenious young Gentleman, Surgeon to one of His Majesty's Ships, that he ventured to open the Body of one who died of this Illnefs under his Hands; upon which (tho' the Operation was hafty, and confequently his Enquiry not over curious) he found the Stomach, Diaphragm, and many of the adjacent Parts, feized with a deep Mortification. Helmont, speaking of the Plague itself, has these Words, "Plerum-" que notavi Pestem circa stomachum prima « fedi-I 2

" sedilia locasse." And Paræus has likewise observed a Pestilential Anthrax in the Stomach.

The History of this Difease requires, that a Description should be given of the Seafons and Weather, and their fucceffive Alterations, in order to fhew how far they might have had an Influence in producing the Epidemical Contagion. Hippocrates gives Authority and Rules for doing this; and indeed the frequent Neglect of it, is the only fair Objection or Imputation that can be justly laid to the Charge of the accurate and judicious Sydenham. But as I am fully convinced, that the prefent Malignity does not owe its Birth to any different Temperatures of our Atmosphere, nor to any Vapours or Exhalations from the Surface or Bowels of our little Spot of Earth (however it might have been fince nourifhed or fupported by any fuch Means) I need only make this general Observation: From the Beginning of this last Introduction of the Peftilential Fever among us (which happened in the Winter Seafon of the Year 1733, as was hinted before) the Weather, and the Air in respect of its primary Qualities of Heat, Cold, Drought, and Moisture, suffered no other fignal Variations, than what were usual here in the healthieft Times; we had alternately dry and rainy Seafons, each continuing often for

for fome Months fucceffively, but the dry did certainly prevail most; no Hurricane has been felt (I mean in this Ifland) during that whole Space; we enjoy almost the Year round conftant refreshing Breezes of the Trade-Wind, which only varies a little between the East and North Points. except that in the Months of July and August (which we call the Hurricane Months) and fometimes later, the Wind frequently blows from the South or Weft, or the Points between them; nor has there been the least Appearance of any uncommon Meteors in the Sky from that Time to this: What the hidden Influxes of Calestial Bodies may have done, we are not capable of knowing.

During the Tyranny of this Fever, common Sporadic Diftempers appeared now and then as usual, such as Angina's, Peripneumonies, Afthma's, Pleurifies, Rheumatisms, Colds, Coughs, Diarrhæa's, Dysenteries, &c. which however were not fo general as to deferve the Name of Epidemics, nor did feem to have any Relation to the predominant Conftitution of the Year; but (as it mostly happens in these Parts) shewed themselves chiefly upon the fetting in of rainy Weather, of which they feemed to be in fome Measure the immediate Offspring; though, no doubt, the foregoing Droughts might have difposed the

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the Body and Humours for their Production; the Heats and Droughts bracing the Fibres and occasioning an Inflammatory Diathefis in the Blood, and the Rains giving Rife to Viscofities of the Humours, Stoppage of Perspiration, and Relaxation of the Fibres. In almost all these, the Blood, when drawn, had an Inflammatory Cruft refembling that of Pleuritical or Rheumatical Cafes, and exceedingly different from what is conftantly observed in the Fever now fpoken of; as has already been shewn. As to the Intermittent Tribe, either Autumnal Quartans, or Vernal Tertians and Quotidians, it is certain they are rarely (if ever) the genuine Growth of Barbados, let the Weather vary ever fo much: Indeed Continued Fevers do fometimes here, as in Europe, upon their going off put on the Genius of Intermittents, and Patients labouring under Agues are often brought up here from other Parts: But it is notorious, that all the uninhabited Iflands, which are not many Leagues diftant from us, and lie ftill covered with thick Woods, as Tabago, Saint Lucy, Saint Vincent, Dominique, &c. are fubject to them in a very eminent Degree, for Reafons too obvious to be now related, which both King's Ships and Traders are fenfible of to their Coft, if they only remain a Fortnight or Three Weeks in those Harbours;

Harbours; and these are frequently obstinate and irregular, often refembling double Tertians, though with due Preparation and Precautions they fubmit, at length, to the Use of the Bark. The Freedom we enjoy in this Place from fuch importunate Vifiters, I take to be chiefly owing to the great Purity and Freshness of our Air: But yet there are other Caufes of it too that well deferve Notice; for, 1/2, All the different Stages of the Year are fcarce diftinguishable from one another by the Heat of the Day, except that in the Winter (if Winter it may be called) the Evenings and Mornings are fenfibly cooler: 2dly, Our Rainy Seafons are mostly in the Summer Months of June, July, and August, and the Moisture that then falls is foon fucked up again both by the hot Beams of the Sun, which is at that Time almost perpendicular in its Meridian Height, and by the Fanning of our constant Breezes: And, 3dly, our Autumns and Winters are generally tempered with the drieft Weather; fo that there is hardly any Opportunity for Intermittents to erect their Heads.

How it may be in the Leeward Colonies I cannot precifely fay, but it is to be prefumed, that Antigua, St. Kitts, Nevis, Montferat, &c. (as they are now well cultivated) perceive no very effential Differences any Way; and for that Reafon I fufpect, that their

their MALIGNANT FEVER is much the fame as ours, and that it was derived to them from this or fome other Place, but is by no means the natural Produce of their own Climate, though it is reported to have been much more fatal there than here: Whether their Air or Earth may have any peculiar Properties, more apt to encourage, or more agreeable to the Nature of fuch an Infection, is utterly a Mystery to me. I likewife do much fuspect, that the Opinion which has lately prevailed there, of the Distemper's being originally occafioned by fome corrupted Ponds, is not very just; for in fuch Cafe, they would fcarce ever be free from it, the fame Caufe ever fubfifting in all long Courfes of dry and hot Weather; befides, they are bleffed with the fame Winds and fresh Breezes as we are, by which the Vapours are perpetually blown away from off the Face of fuch narrow Tracts of Lands, and cannot poffibly stagnate over fuch Ponds, fo as to fill the Air with Infectious Miasmata of the most horrible and most venomous Sort: Were their Grounds still overspread with Woods, or remarkably covered with unwholefome Lakes or Marshes, fomething might be faid in Favour of fuch an Opinion : But, I am perfuaded, had exact Enquiries been made upon the first Appearance of this Difease among them, it would have been

been found to have proceeded from fome other Quarter.

In this Space of Time there arose here a few other Diseases, that were really Epidemical and of the Contagious Kind too, few efcaping them in Families where they had once got a Footing. The first was an obstinate and ill-favour'd Erysipelatous Quinfey. The fecond, a very Anomalous Scarlet Fever, in which almost all the Skin, even of the Hands and Feet peeled off. The third, a Suffocating Cough, that in the Year 1737, and Part of 1738, fpread itfelf over all Parts of the Island, and was fometimes Convulfive in Children and young People, upon whom it exerted its Anger most. The fourth, the Small-Pox, which has continued longer than ever it was known to do before, and is not yet quite departed from us. Of these I need not give any particular Description at present; but there is great Room to apprehend, that their spreading so far and wide, was in some meafure influenced and forwarded by the Conflitution now reigning, and that fome of them were Creatures of it.

It is no unjustifiable Boldness to affert, that within these last fix Years, or thereabouts, His Majesty has lost, by means of this MALIGNITY, in and about his Sugar-Colonies, upwards of Twenty Thousand very useful Subjects, the much greatest Part of

of whom were Sea-faring People; which abundantly fhews the Neceffity of making the moft faithful and diligent Searches into the Caufes, Nature, and Cure of this dire Diftemper. Some honeft and fair Attempts towards the obtaining a more perfect Knowledge of it are now offered, which poffibly may not be unacceptable to any who have the Prefervation of their Fellow-Citizens at Heart; efpecially, as Endeavours of this fort are highly wanted, and have been unfortunately too long neglected.

I have, I think (without omitting any thing material) given a brief Account of this reigning Conftitution; in doing which, I have rather studied Weight of Matter than Elegancy of Stile, and Usefulness rather than Ornaments : I have endeavoured to make my Reafons plain and obvioufly intelligible, and the Inferences eafy and natural: I have avoided using Technical Words, or Terms of Art, as much as the Nature of the Subject would bear, or the Significancy of the Senfe required; and I have been fly of embellishing my Remarks with Quotations (as might readily have been done) out of the learned Languages, which indeed would only fhew Oftentation, and could be of very little Service to those, for whofe Use this Treatife is principally defigned.

I have no fond Pretence of obtruding my Opinions, or any other View, but to explain and enforce my own Obfervations, which I have Ground to believe are founded upon Truth and Matters of Fact, and which I hope will prove of Advantage to many, when more generally known and brought into Practice. For Apology, I beg Leave to use the Words of a Great Man already mentioned; Illam tantum mibi veniam peto, quod minùs accurate, quàm proposueram, morbi bistoriam ac curationem descripsero; cùm non tam metam figam, quam animos iis addam, qui feliciori ingenio præditi ad hoc opus postea se accingent, quod jam ego imperfecte molior.

FINIS.



