The state of physick: and of diseases; with an inquiry into the causes of the late increases ... particularly of the small-pox. With some considerations upon the new practice of purgeing in that disease. To the whole is premised, an idea of the nature and mechanism of man: of the disorders to which it is obnoxious: and of the method of rectifying them / [John Woodward].

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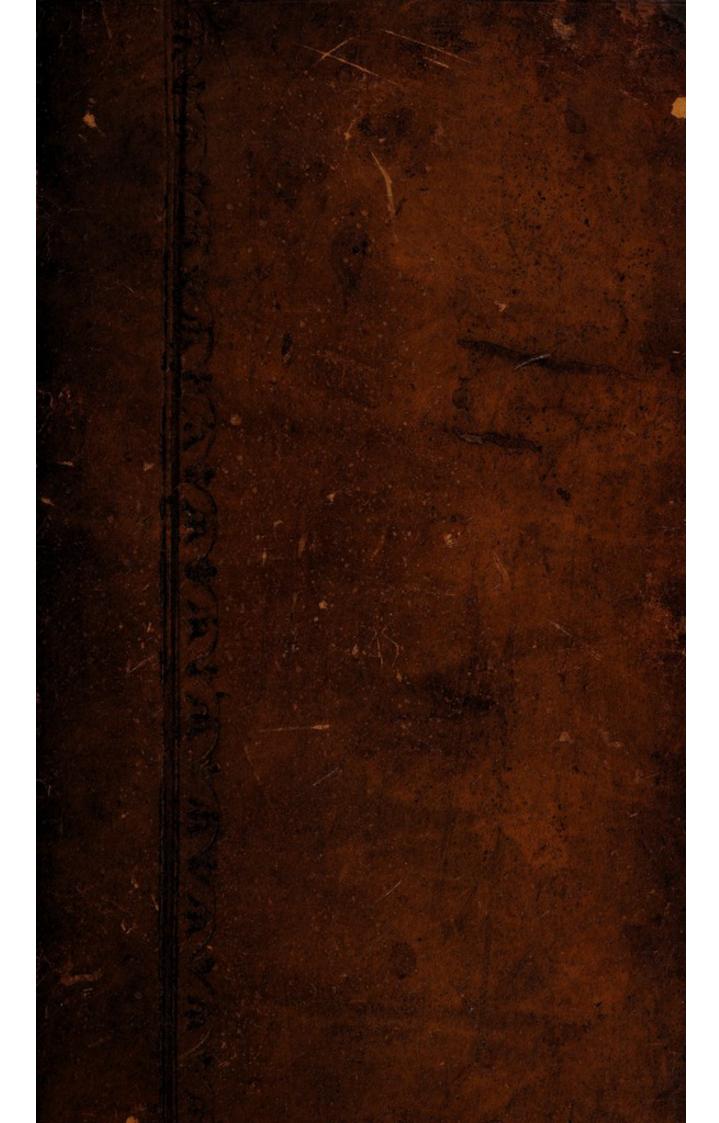
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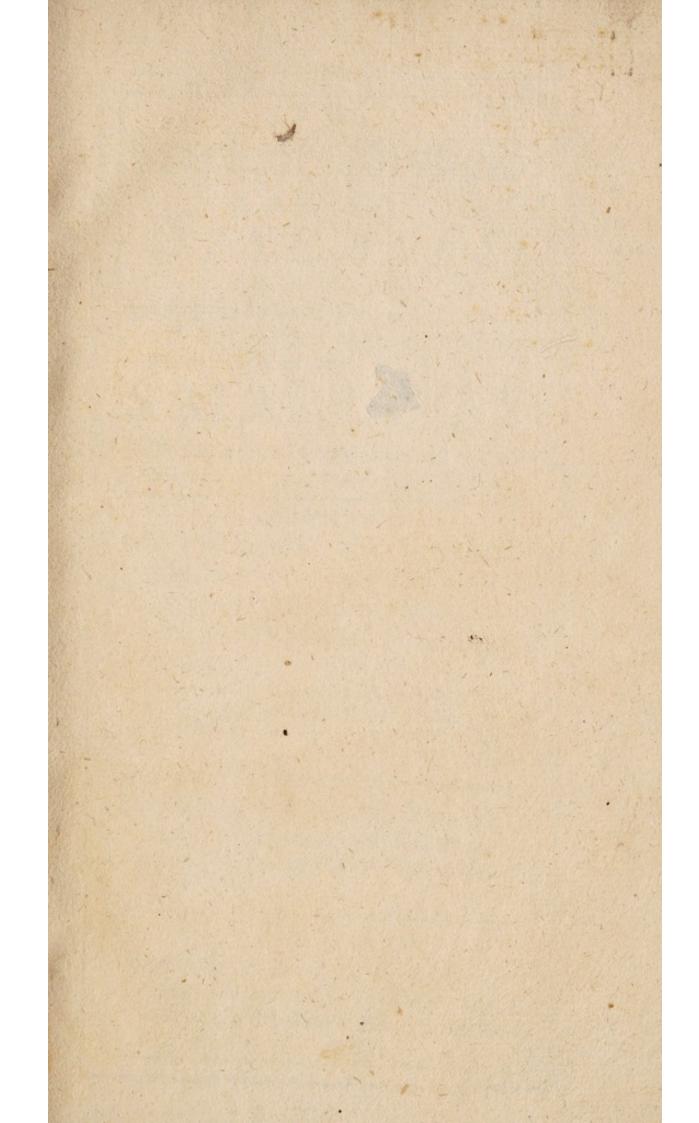


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THE

State of Physick: AND OF

DISEASES;

Inquiry into the CAUSES of the late INCREASE of them: But more particularly of the

SMALL-POX.

With some Considerations upon the new Practice of Purgeing in that Disease.

To the whole is premiled,

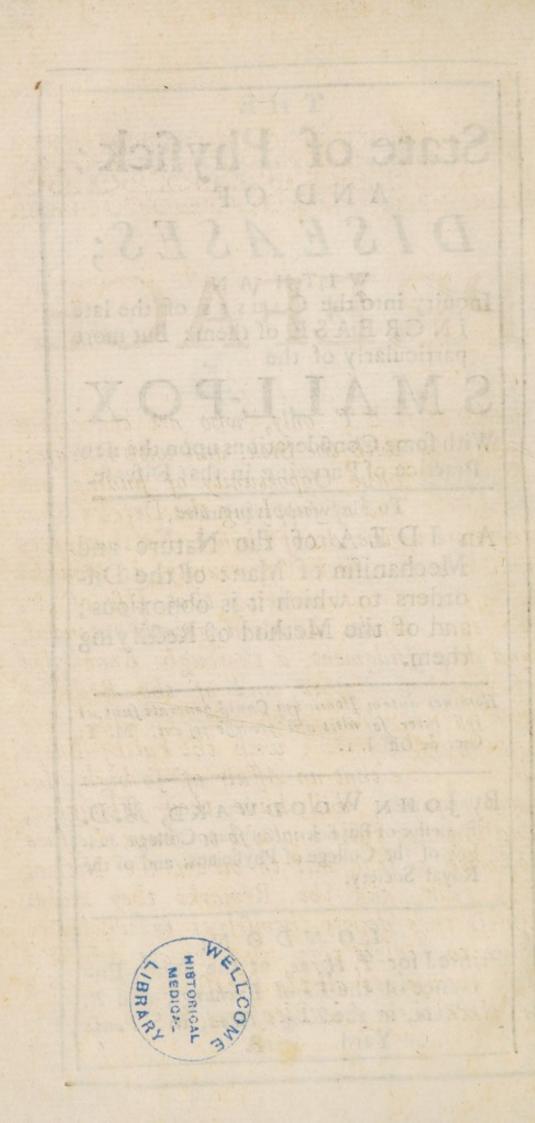
An IDEA of the Nature and Mechanism of Man: of the Disorders to which it is obnoxious: and of the Method of Rectifying them.

Homines autem Hominum Causa generati sunt, ut ipsi inter se aliis alii prodesse possent. M. T. Cic. de Off 1. 1.

By JOHN WOOD WARD, M.D. Protesfor of Physick in Gresbam College, Fellow of the College of Physicians, and of the Royal Society.

LONDON:

Printed for T. Horne, at the South-Entrance of the Royal Exchange, and R. Wilkin, at the King's Head, in S. Paul's Church-Yard. 1718.





HEY only, who are conversant with the Sick, and with Diseases, have Opportunity of finding out and of supplying the Defects that

there are in the Art of Physick. Not that every one, who has such Opportunity, is immediately capable of makeing that Use of it. To that, besides a Mind greatly extended, and deep Judgment, a thorough Knowledge of exteriour Nature, and of the Body of Man, is requisite. But, with all this, they who attend the Sick with the Faithfullness and the Care that an Affair of so high Moment requires, will have their Thoughts, and Time, too fully imploy'd to have Leisure to write, or transmitt to others the Notice's they gain, and the Remarks they makes Unless they devote themselves so wholey to it as to neglett their own private Affairs: deny themselves all the Pleasures of Life: or place their sole Pleasure in Philosophy,

in Humanity and Beneficence to the rest of Mankind. All which duely weigh'd, no one can well be surprized that there is not yet made a greater Progress in Physick than we

fee at this Day.

Besides, when, in this, or any other Science, with great Study, and perhaps the utmost Difficulty, an important Truth is brought to light, it meets ordinaryly with but faint Reception. There are not Many that are not byafs'd: or that have not taken up their Opinions, generaly without over narrow Scrutiny, or close Examination. Nor is any Thing so hardly practicable to weak Minds as to disposes themselves of those: or exchange them for others, how great Evidence and Certainty Soever these may earry along with them. Nay, in an Age wherein many set up for Judges, Nothing will be allowed that happens not to have their Sanction; especially if they have wrote themselves: and above all, if their Notions, when brought to it, will not abide the Test of Nature. None ordinaryly are so clamorous, or so vehement in their Opposition, as these. Nor bath Science found, in all Ages, and in every Country, Patrons and Protectors so thick and numerous as it claims, and justly merits.

Under these so great Discouragements it cannot well be any Surprize that some should, instead

instead of real Philosophy, give themselves up wholey to Fiction and Invention; while others consult their Ease and Quiet, and persue their Pleasures; choosing rather to Spare their Labour, their Time, and their Fortunes, than venture all in a Bottom so bazardous, end steer a Course wherein they are certain to meet with such Storms and Distress. Nor are there many of so Stoical a Temper and Genius as easyly and rightly to comport with Censure, Cavil, and Misrepresentation, from those whose real Happyness they are all the while promoteing, sincerely, and with the highest Zeal and Application. Not but that some such there certainly are: and a Mind truely great, fill'd with the Love of Vertue, and of Good, is vastly superior to all those Obstacles. Then the Pleasure, that attends the Persuit and Discovery of usefull Truth, is greater than can ever be imagin'd by those who have not felt it. And this, with the Acknowledgements and the Approbation that it will not fail to meet with from the Wise and the Honest Part of the World, is much an Over-Balance to all the Toils and Perplexityes that are sure to bappen in the Way.

As to the Work now before me, it will, I hope, speak for it self more clearly than to need any Explication here. This I can

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very truly say, how mean so ever my own Abilityes may be, I have done my utmost to Supply their Defect by my so much greater Diligence and Care; haveing conducted my self wholey by Observations, kept close to Nature, and founded what I advance intirely on Reflections woon the Mechanism of the Body of Man. But this will more largely appear when I shall come to set forth those Observations themselves, along with the Cases and Historyes of several that have pass'd my Care, in the Small-Pox, and most other Diseases: as also several Diffections and Anatomical Administrations; all which are in Readyness, and shall be publish'd as fast as my other Affairs will

give Leave.

That, for Several Years past, I have changed some of the Medicines that are in great Vogue, and particularly Steel, for Others, was because I had Reason to think these more natural: and not out of any Affectation of Singularity, or Study of Innovation. Motives so very slight could have little Effect where I so well foresaw this Change, interfereing, not only with establist'd Notions, but with some very considerable Interests, must give great Offense, and create me some Difficulties. The Thing fell out as I expected: and those, who are not vers'd in such Affairs, will not be easy ? and list tire the same

brought to believe what Pains have been taken, and what Arts us'd, to possess the World to the Prejudice of what I was proposeing to bring into Practise without any other View than merely the Relief of the Sick and Afflicted. Had there, along with that Opposition, appear'd something of Argument, and of Reasoning: or some Instances of Error, and want of Success, in what I attempted, this would not have fail'd to bave bad its full Weight with me. The Case truely was, I could not, either with any Honour, or Satisfaction to my own Mind, go on with the giveing of Medicines that, as my Reason, and Consideration of their Nature, from the Beginning, prompted me to Suspect, my Experience, afterwards, and all the Tryals that I observed made by others, confirm'd, were of little if any good Use, and generally offensive and injurious.

Nor will it be thought strange that, in the Course of my Practise, for some Years, I have made so great and frequent Use of Oyls, and Unctuous Remedyes, when it shall be evinced, as I hope it is sufficiently in the following Papers, that they happyly answer several great Ends and Exigencies of Nature: and are of Constitution directly contrary to the main Principle and Cause of Diseases. The Reasons, and Inducements to so much

as is enter'd upon here, are too strong to suffer any One to judge me easyly drawn into Controversy. Not that those of Dr. Freind, and the Gentlemen that have joyn'd him, in the Commentaryes that he has set forth on Hippocrates's first and third Book of Popular Difeases, are the only Methods that I have had Reason to call in Question. I am well aware what a Force and Power I incounter. But I have a firm and great Relyance upon the Goodness of my Cause: and am forward to persuade my self All will readily allow my Views in this Undertaking are equaly good, and center wholey in the Benefit of others. Private Design, or Interest of my own, must bave been carryed on in a very different Way; in which a too general and long Experience. bath shewn there would be both great Security, and Advantage. For the Gentlemen I bere differ with, they will have less Cause to Suspect my Candor when they are made senfible how many more Instances I have, yet reserved, in Objection to what they have now publifi'd: and besides, I have purposely declin'd Produceing here any of their other Practife; confineing my self, for the Present, wholey to what they have deliver'd in those Commentaryes.

What is here offer'd, being levell'd against the Distempers and Calamityes of England, could not so fitly be set forth in any other Language

as English. Nor can any thing be more improper than to render abstruse, and a Mystery to the Body of the Nation, what is of so common and indeed universal Concern. Thus likewise I, some Time ago, set forth my Essay toward a Natural History of the Earth, in English. Tis true a very learned Gentleman + abroad baveing printed some Objections, against that Treatise, in Latin, I was obliged to return an Answer in the same Language. Which yet I will take Care, at my first Leisure, shall be made English; the rather because, in this Discourse, I have Supply'd the main Defects and Omissions of that Essay. I the more readyly took the Opportunity to do that briefly there, for the Use of the few that are curious and Judges, because this Age gives so little Incouragement to Studyes of that Kind that no One can well wonder that I have not yet ventured to set forth any Thing more at large upon that Subject.

The following Papers, together with Remarks upon some of the other Heads treated of by Dr. Freind in his Commentaryes, have lain by, now, some Time; being drawn up in the Winter of the Year 1716, soon after those Commentaryes came out. I am obli-

[†] D. El. Camerarius Med. Prof. Tubing. la Differtationib. Taurinent. Tubingæ editis. 8°, 1712.

ged to take Notice of this, because the Calculations *, relateing to the Increase of Difeases, were brought down no farther than that Time. Some Additions there have indeed been made since; but very few. I deferr'd publishing these Papers, thus long, partly that I might get the Judgement of the more eminent of the Professors abroad, as well as of some very learned Men here, concerning them; which I have done: and partly in Hopes of Leisure and Opportunity of first Finishing, and Fitting for the Press, what I have collected, from Observations, and Experiments, relateing to the Animal OEconomy. That would have given much Light, and contributed greatly to the Confirmation of what is bere deliver'd. But, since I now finaly see I cannot be so fortunate: and my Affairs will not permitt That, I must deferr it: and shall, in some Measure to supply that Defect, pre-mise a brief Idea of the more considerable Action and Operation in the Animal Œconomy: the Discomposure of it under Diseases: and its Re-establishment by the Art of Phy-sick; such an Idea being needfull, at least to common Readers, before they enter upon this Discourse.

^{*} P. 189. & Seqq. infra.



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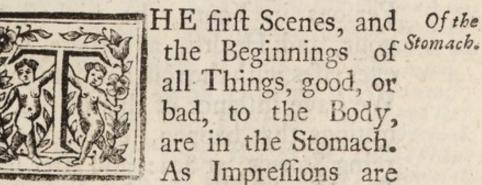
IDEA

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Nature of Man: of the Disorders to which it is obnoxious: and the Method of Rectifying them.

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Of the Body of Man in Health.



made there, and Things transacted, rightly, or wrongly, the Body, barring exterior Accidents, is well, or

ill: and the Health firm, or interrupted. While the Stomach prepares and dispenses down into the Blood an Aliment, that is wholey good and right, every Thing must be fo over all the Habit: and the Organs supplyd, and inabled to do their Duty rightly, in Passion, Exercife, Labour, and all other Exigences of Life. But, when the Fountain is puddled, the Streams must be so too: and Matter, vitious, and erroneous, in the Stomach, must unavoidably be diffused over and incommode the whole Frame. that our first and chief Aims, either for the Preferving of Health, or for the Restoreing of it, ought to be directed to the Stomach. When, by any Means whatever, the Contents of this Organ are cast up, as well in Persons in Youth, the highest Vigour, and Health, as others, there ever rifes, with the rest, a Biliofe Juice. We have instance of this in the Vomitings that happen, especially dureing Storms, at Sea: and after hard Drinking.'Twill not easyly be believd how great Quantities of this Juice are frequently thus discharged: and this

this rifeing likewise on all other Occasions, in which the Vomiting is free and effectual, 'tis evident this Juice must be natural, and more or less of it ordinarily resident in the Stomach. The Meat, sent down of Dia into the Stomach, is there reciev'd and the by this Juice; which contains in it Salts that Salts of differing Nature, sweet, are the muriatic, Ammoniac, bitter, acid. ments of These, when rightly constituted,". and each in due Proportion, act upon the Meat, particularly the Flesh eaten, dissolve, digest, and reduce it to a thin Gelly. By their Action, natural and Conflicts, a Heat is excited: Heat in Thefe the Ston Fumes and Steams rais'd. huff up the Stomach: and keep it "of the on a moderate Tension and Infla-natural tion. By this Means it is made Inflation somewhat to bear, and press, on the mach: its Parts all round: and, in particular, Pressure on the descending Trunk of the cending great Artery; which, being rais'd Aorta, up thither for the Purpose, is so and the placed, on the very Ridge of the Diffribu-Back-Bone, behind the Stomach, as Blood to be subject directly to its Impulse, that fol-Action, and Modulation. In Pro-lows portion as the Stomach bears, on this thereupon. B 2

Vessel, more, or less, it straitens it: and, more, or less, impedes the Descent of the Blood. So that, the Discharge out of the Heart being equal, a greater Quantity is sent to all the Parts above this Curb; particularly to the Brain; to answer the great Ends of Nature there, in every Exigence of that important

This re- Organ. For the biliofe Salts, bequisite to sides the Part they act in Digestion,
the Exerting of the concurr to the Production of the
Passions, Phænomena that attend the Passions,
the Senses,
and Cogi- Joy, Grief, Fear, Anger: and, by
tation. their Regulation of this Tension of

their Regulation of this Tension of the Stomach, and of it's Action on the Artery behind it, to the Modulation of the Brain, the Exertion of the Senses, and of Cogitation. This fo furely depends on the Stomach, that it never fucceeds rightly, while, either by Reason of the Depravation of the Biliose Salts, or fome other Cause, Things are put into a Perturbation there: or while, on Account of intemperate Eating or excessive Drinking, the Salts are fo much ingaged in Digesting the over great Charge thus made upon them, as to have little Liberty to aflift

Of the Body of Man in Health.

assist in the Affair of Cogitation. Where, on the contrary, these Salts are too long and intenfely imployed in Cogitation, the Digestion is neglected: and so the Nourishment renderd imperfect. For which Reason Scholars, and Men that give themfelves up much to Thought and Study, are ordinarily lean and confumptive. Persons of the finer quicker and more delicate Constitution have some Perception of these Operations on the Brain, and Senfes; indeed very great, and distinct, when the Biliofe Principle, increas'd, acts with a more than ordinary Power. As to those who have little, or perhaps no fuch Perception, distinctly, if they please to have Patience till Evidence can be produced of it from various Methods of Proof, and, in particular, from what others percieve and observe, they will, I hope, in due Time, have fuller fatisfaction in this Af-The Aliment, the Meat, Condition digefted, and diluted with the Drinks of the Alius'd, passing, out of the Stomach, the Guis: by the Pylorus, into the Gut Duo-and the denum, besides what it carryes out Transaca-there.

along with it, takes up more of the Biliose Juice, discharg'd in, by the Duct, from the Liver, there, in the Way, on Purpose. * This continues yet more to heat, dissolve, and The Passage of act upon the Aliment. Being mov'd,

Passage of still on, along the Guts, by their ment into Peristaltic Action, the finer and the Blood thinner Part of it by Means of the

thinner Part of it, by Means of the flight Opposition and Stops, made, in the Guts, by the Steams and Flatus ariseing from the Conslicts of the Biliose Salts, is turned crosswayes, thorow the Lacteal Vessels, and the Thoracic Duct, into the Blood: and so circulated with it, and thrown about the Body. The coarser, and all that passes not the Lacteals, gradually surmounting those Stops, and descending, is finally

Of Nou-flung forth as Excrement. In rishment. Sleep, the Pylorus being near stributed closed, the Communication betwixt to the the Stomach and Blood by that chiefly du-Means in great measure intercepted, ring Sleep.

^{*} The Pancreate Juice, being of a Mucilaginous Nature, and entring the Duodenum just where the Bile does, serves to smear over and defend that Gut against its Acrimony and Depredations; from which otherwise the Gut would be frequently in great Danger.

and the Descent of both the Aliment, and the Biliofe Juice, the Principle and Instrument of Animal Action *, and of Sensation +, being * Conf. impeded, for the Time, much of the p 10, 11. Action in the Frame is, of Course, † Conf. remitted and suspended. Sensation p. 12. inis fo likewise: and the Organs come to a greater Quiet, Eafe, and Rest. The Action of the Heart is flackend: and the Blood confequently moves flower. By this Means the Organs and Parts have better Opportunity of feizing, and detaching, out of the common Stock, fuch Corpufcules as serve peculiarly for the Sustentation and Nourishment of each; this great and important Work being carryd on chiefly in Sleep. As the Blood Of the is circulated about the Body, 'tis of the nabrought to the feveral Glandules, ral Juiand secretory Organs, that serve for Fluids out the takeing forth of it Matter very of the different: and subservient to va-Blood. rious Uses, and Ends of Nature; fuch as the Bile, the Sperm, the Lympha, the Saliva, and, to pass over all the rest, the Mucilage that lubricates the Muscles, the Joynts and Heads of the Bones, rendring

them better fitted and more capable Secretion of the Extions Fluids.

Of the of Action and Exercise. Glands there are that serve for the crementi-Discharge, and Flinging forth of the Blood, by Way of the Urine, of Perspiration, and Sweat, of the Halitus and Breath, fuch Matter as may have happen'd to have got, with the rest, into the Vessels, and is wrong and improper *: or elfe fuch as is redundant, superfluous, and Of the more than is needed there.

Colour of nutritious Gelly, or Chyle, attended with the various Salts, above recited, from the Stomach, and Duodenum, arrived in the Blood-Veffels, and circulated with the Blood about the Body, after the natural Secretions and Detachments are made from it, quitting it's pale transparent Hue, becomes of a red Colour, pa-

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^{*} As there are certainly requisite, for the Formation and Nourishment of the various Organs, and the Parts of each, Corpuscles, not only of various Kinds, but different Sizes, 'tis needfull that the Lasteal Vessels be capacious enough to give Passage to the largest: and these Vessels, not admitting Matter electively, but all indifferently that exceeds not the Diameter of these Vessels, some must needs enter that is improper: and that would be injurious to the Body, were there not this Provision made for the Casting it forth again. ler,

ler, or deeper, upwards almost to a black, answerably to the lesser or greater Quantity, and to the different Proportion, of the feveral Kinds of those Salts. The Colour of the Colour of Skin, and the Complection, is owing the Skin; partly to the Colour of the Blood, and the shineing through the Vessels under-on. neath, and partly to a mucous or gelatinous Matter lodged in the Pores, and Interstices, near the Surface: and differs, being fair, florid, ruddy, purple, tawney, olive, or black, in Proportion as one or other Kind of those Salts ordinarily prevails, and as the Detachments, by Way of the Skin and Perspiration, happen to be fewer, or more, by Reason of the Climes being colder, or hot-By the Colluctations of those Of the Salts, and the Efferve scence consequent the Blood. thereunto, continued, in the Blood, and of the this, and the Parts of the Body, as Body. it passes them, are kept constantly to a due Heat. By the Agitation The O. of those Salts likewise, and the Fla-rigin of tus or Steam that here also attends, bules of the Chyle, or thind Mutritious the Blood. Gelly, introduced and turn'd into the Blood-Vessels, is froath'd up in-

to the Form of Bubbles, or, as they have been usualy call'd, Glo-Their bules. These expanded, and in Use in the Turns contracted, in the Blood-Vessels of the Muscles, are the Instruments Muscular of Muscular Action. One Instance of

the Greatness of their expansive Power we have in Blood just let out of the Vein into a Receiver; out of which the Air being exhausted, and fo the exterior Pressure taken off, these Bubbles, of very fmall, instantly swelling, and growing bigger, become incredibly large: and indeed the greatest Part, if not the whole Mass of the Blood, froaths and rifes up into fuch. The Strength and Power of the Muscles increases in Proportion to the Mul-

* Conf tiplication *, Inlargement, and In-19. in-crease of the Globules. We have a great Proof of this in Epileptic

and other Convultive Fits; in which the Person affected exerts frequently an incredible Strength; indeed 3 or

4 Times greater than natural. The † Conf. Flatus, that is the Cause † of them, is, in these Fits, commonly so active and turbulent as to froath up even the Phlegm of the Stomach into

Bubbles:

Bubbles: and Part of these, with the Flatus, makeing gradualy their Way up, from the Stomach, by the Mouth, prove constantly a Crisis, and Solution of the Fit. As the Principles in the Stomach are in Emotion there for some Time before the Pylorus be closed, the Stomach inflated, and the Fit brought on, fo they hurry continualy, in Quantity greater than usual, into the Blood, till that Stop and Interception happens: and are there ready to act their Part, and exert themselves, upon the Occasion. Other like Instances there are of an extraordinary Strength exerted dureing the Paffions; as in Joy: of greater, in Anger: and greater still, in Fright. In the Heart, these Globules con- as also tribute to the Action there, the of the Mo-Diastole and Systole: and to the Di-Heart: stribution and Circulation of the Blood about the Body. Even in Animals that are dead, if they have not lain too long, an Halitus, or warm Flatus, fent into the Thoracic Duct, passing through the Vena Cava, into the Heart, after it's Action and Pulsation has wholey ceas'd, restores

12 Of the Body of Man in Health.

restores it: and brings the Heart to and of beat afresh. The Globules of the Sensation. Blood, with the Aura or Vapour a-

riseing from the reciprocal Conflicts of the Biliofe Salts, ferve placidly to diftend the Blood-Vessels, in all Parts: and to render these capable of Feeling, and Perception of exterior Objects and Agents. The Biliofe Salts, rightly constituted, and each in due Proportion, as they pass along make, every where, a placid Irritation, and excite a natural kindly grateful Sensation in all the

of the Nerves.

Of the Mechami/m of the Body of Man.

The Use Parts. The Nerves, attending the Arteryes, as fo many Chordæ tenfæ, affift in this Affair: propagate, transferr, and continue the Action, and the Senfation. on and the Things being in due Plight, thus harmoniously concurring, compose such a Mechanism of the Frame, and produce fuch an Operation, as animates and inlivens it: and renders it capable of Motion, Action, Sense, Passions, Cogitation, and rightly answering all the Offices and Ends of Life. So long as it does that, 'tis in good State, and Health: and they who have Capacity

city rightly to comprehend fuch a System, and the compleat Constitution of fuch a Machine, must readily allow it a Work truly worthy of the great wife Author and Framer of it.

Of Diseases.

But if, by over great Solicitude and Care, Study, or Grief, the Salts that ferve for Digestion, be taken off from that Work, and otherwayes gestion. imploy'd: or, by Gluttony, and Intemperance, unfit Diet, or some other like Means, they be confounded, and overpower'd, an Indigestion must needs follow, and a great Part of the Meat, eaten, be not duely thin'd and fined, but reduced only to a coarse Gelly, or Phlegm. Or if, through any of the recited Caufes, through a too great Indulgence to Sleep, or a Sedentary Life, the Phlegm be detain'd in the Stomach, stagnateing, it becomes gradualy putrid, and noxious. Besides, by this The salts Stagnation and Delay, a greater in the stomach Quantity of Salts must, of Course, multiply-De ed, and depraved.

Affections of the Stomach IndiThefe

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Heat : and of

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be feparated and drawn out of it: and particularly those that are unnatural, and improper. Such coarfe Phlegm is the more disposed to stagnate there as 'tis more heavy, and viscid: and indeed as the Stomach the Cause is relaxed, and deepen'd, by the great In- greater Inflation of it, caused by the Steams arifeing from the Collucta-Relaxati- tions of the Biliofe Salts, now both increased in Number, and vitiated. Stomach. To these are owing several præternatural Symptoms; an Heat there, upon this Increase of the Cause of it, greater than natural: a Sense of there. Al. Burning at the upper Orifice of the Stomach: Gnawing, and Gripes: Affections Inflations, with a tensive aching Pain, of that Organ: and those ufualy calld Hypochondriac Affecti-The Salts being thus re-Of the ons. dundant, and deprav'd, their Opera-Passions: tions must be more intense, and irregular. The Passions become exorbitant: and are attended with Phænomena that are not genuine and usual. There's a greater Difposition to Anger: or perhaps to Fear, or Grief. Nay these Passions

are

are brought on frequently involuntaryly, and without any external Motives. The Body is affected, and the Organs perform, just as the Instruments, that work on them, happen to be disposed, and to act. The Salts are sometimes so far vitiated, and fo exuberant, as to get the Dominion over the Patient, put him out of his own Power, and subject him intirely to their Government and Infults. They bring on a profuse Laughing: or Chagrin, Melancholy, Sorrow, and as profuse a Weeping; all involuntaryly, and without any exterior Incitements. The Body retains, after these forced Passions are over, but too plain Evidences of the unruly Action, and the Deprædations of these Salts. The Stomach is fretted by them: and rendred commonly very fore. The Appetite is proftrated: and the Digestion much hurt. Besides, as alfo these Salts, thus augmented, increase of the the Senfation: pervert it, impose on Senfes: the Organs of Sense, form Sounds and Voices that are not real, produce lusory Visions, representing Actions Persons and Things that exist

exist no where but in these delusive

concurr to the Produceing of Cogitation, being thus multiplyed, they render the Thoughts more intense: as also so much more hurryed, and quick, as to be sometimes confused. Being depraved, they confound and pervert the Power of Thinking: bring on Solicitude, Anxiety, Suspicion. Nay they obtrude suppositious Thoughts, and Suggestions; not only without the Concurrence, but directly contrary to the Will,

Of Deli-of the Person. In fine, when via: and highly redundant, and vitiated,

they annoy the Organs, indifpose the Frame, and make such a Perturbation and Consussion in the Brain, and indeed the whole Occonomy, as to bring on Deliria, Madness, and Frenzy. As those Salts cause these Disorders, so the Removeal of the Salts, particularly by Vomit, puts an End to the Disorders. In which Operation 'tis observeable that the more sick the Patient is, and the more powerfully the Vomit casts up the Biliose Matter, the bet-

ter Success constantly attends it: the greater Benefit the Patient receives: and the more it contributes to the clearing up his Senses, and reduceing Him again to right Reafoning; of which there are Instances, fo great, and sudden, as to be very furprizeing. The Stomach, by the greater Colluctations of the bi-toms and liofe Salts, and the large Quantity brought of Flatus ariseing from them, be-on by an ing more than usualy inflated, huf- over great fed up, and raised, bears up the of the Sto-Diaphragm, straitens the Thorax, mach, and and, by that means, confines, and on the deincommodes the Lungs, and Heart : feending causes Difficulty of Breathing, Faintness, Swooning, renders the Affetti-Person pusillanimous, dejected, and Back the dispirited. The Heart, and Lungs, Thorax, in Order to the secureing to them- the Heart, felves Scope and Freedom of Action, and the make continual Efforts, push and Neck. thrust out the Breast, sometimes with fuch Force as to render it finaly more than usualy big and prominent: and together with the Preffure of the Stomach, by Degrees, push out the Back, so as to make it, in Time, gibbose and hump'd. The Stomach,

Stomach, pressing thus harder than it ought upon the Back, and the descending Trunk of the Aorta, causes sometimes a Pulsation, there: and, when the Force is very great, a Compression of that Artery; as the Efforts of the Heart, make a Dilatation of it again, fo as in Turns, to produce a Sense of Opening and Shutting in the Part; very common in Persons of the finer Constitutions, and particularly Women. The Heart to furmount the Resistance made thus to the Descent of the Blood, exerts it's utmost Force: increases it's Action, palpitates, and throbs, for the Time. Till the Pass is gain'd, and the Impediment of it's Descent remov'd, the Heart is overcharg'd with Blood: as are also the Lungs: and the Vessels of the Neck, whereby it is render'd stiff, and frequently tumid, for the Time.

Affesti- The Blood-Vessels of the Head,
ons of the Face, Ears, Eyes and Brain, are as
Head,
Face, Ears much overcharged; whereby are
Eyes, and brought on the various Affections
of those Parts: an Heat, a Flushing,
Convulsions, of the Face: Noise in
the Ears, Deafness: Mists, and Dim-

ness

ness of the Eyes, Skotomia: an Akeing or Pain, an Heat, Weight, and Senfe of Fullness in the Brain: a Pulsation there, sometimes very great and troublesome, keeping Time with the Pulse of the Arm, the Pulsations of the Back, and Palpitations of the Heart: a Dizzyness, Vertigo, Apoplexy; the Symptoms being more or less numerous, and intense, in Proportion to the Quantity of the Blood thus præternaturaly thrown up. As, dureing these Dispatches of so great a Dis-dureing proportion of the Blood upwards, fections of there are but too evident Signs of the Thoa Glutt of it there, in the Affecti- rax, and ons before recited, and in the Parts, of a Plumpness of the Parts, the Ruddy-Glutt of Blood upness, the Heat, and the great In- on them : crease of Strength + that frequently and of a Want of attend; fo are there no less evi-it in the dent Signs of a proportionate Want lower. of Blood, a Lankness, a Paleness, a to Supra. Chillness, and a Feebleness, for the Time, in the lower Parts. Wind, attempting to ascend into the OR-Hiccough. fophagus or Gullet, but being repuls'd, and refifted, by an accidental Closure of the upper Orifice of C 2 the

20 the Stomach, caufeth the Hiccough. Of Epi-Succeeding in the Attempt, and and those getting up in Quantity, but hapleptick, pening to be stopped, at the Top call'd Hyfterick of the Sternum, the Pass being Fits. strait there, it presses on the Wind-Pipe, and on the afcending Aorta, fometimes to fuch Degree as to stop the Breath, and intercept the Paffage of the Blood up to the Brain; the Face, in this Cafe, becomeing pale, and wan, for the Time, as if the Person was dead. To this Presfure is owing, when lefs, the Whoopings of Children, the Choak-

when greater, Epileptic, and those call'd Hysteric Fits. Where the Belchings, Passage up happens to be tolerably Thirft, free, there are wont to be, while ness and the Salts are in this disorderly State Discolour- in the Stomach, Belchings of Wind, ing of the Thirst, Dryness, and Discolouring Longings, of the Tongue, Longings, and ab-Failure of furd Appetites. To the Phlegm there, become putrid, are owing tite, Ill Taftes. the Failure of the Appetite, the Foulness Furr and Foulness of the Mouth of the Mouth, and Tongue, Ill Tastes likewise, a Mouth, of Dif- Nausea, and Vomiting.

Com-

arders

ings and Strangulations of Women:

Commotions and Disorders of the of the Sleep. Biliofe Salts, in the Stomach, hin-Comatofe Affections. der the regular Closure of the Py-Dreams. lorus in Order to Sleep. Which therefore fucceeds uncertainly, and ill: Comatose Affections are brought on: and Dreams, arising from the Perturbation, and irregular Action, of those Salts, upon the Stomach, and the irregular Modulations that this produces upon the Aorta, and that upon the Brain. An Atra Bilis prevailing renders those Dreams frightful, difmal, melancholy. The Of the Fumes, arising from those Salts, Incubus. upon their happening to be debarred Egress by the Contraction of the Pylorus, at fetting in to Sleep, fuddenly inflate, raise, and distend the Stomach: and, by that Means, discompose the Brain: cause Choakings, Startings, Surprizes: oppress the Breast: and frequently bring on that Symptom commonly call'd the Incubus, or Night-mare. The Sleep being disturb'd, interrupted, Failure of and uncertain, there can be no fure rifbment : and stated Opportunityes for the and of a Parts to acquire Nourishment : and Confumpfor each to feize, and take that peculiar

culiar Matter, that is proper for its own Supply, out of the common Store and Mass of the Blood. Then, the Digestion being defective, the Meat is not sufficiently dissolved: but sent down, in Form of Phlegm, too gross ever to be admitted by Organs so sine as those destin'd to receive the Nutriment, and serveing rather to load and annoy, than to support and nourish the Parts. Besides so great a Quantity of Biliose Salts, transmitted continually into the Blood*, fret, corrode, and fetch

* Conf. p. the Blood *, fret, corrode, and fetch 23, in- off the Nourishment that the Parts had before attained. Under which Circumstances a Decay, Leanness,

and Consumption must needs fol-The A-low. The vitious Contents of gents that the Stomach, incited by various rouse and the Agents, and cast thence, downwards, witious produce various Phænomena, suit-Principles able to the different Quantity of mach. them: and to the Nature of the

> Agent that excites them, e. gr. Paffion, over-great Exercise, improper Diet, unsit Medicines, Poyson, a Pestilential or other contagious

Aura, intense Heat, Cold, or the TheDe-like. Being suddenly roused, and hurryed

hurryed into the Guts, in Quan-those tity, they cause a Looseness. The Principles vitiated Biliofe Salts, attending, cor- Guts. rode the Guts, cause Gripes, the Colic, or a Tenesmus. When nu- of a merous, and very sharp, they wound Diarrhaa, the Blood-Vessels, as they pass a- Tenesmus, long: and bring on a Bloody and Dy-Flux. Passing more leisurely in- sentery. to the Guts, the Heat, now in-Costive creas'd, renders the Fæces dry, and Habit. The The Turning hard: and the Body costive. Fumes, and Wind, now likewife in- of the vicreas'd, make greater Stops in the tious Principles. Guts: and, by that Means, turn Phlegm, and force a greater Quantity of the and Bile, Contents of them, Phlegm, and vi- into the Blood; tiated Bile, into the Blood. These, with the being cast upon the Glands, Vessels, Symptoms and Parts, particularly those above dents the Curb of the descending Aorta, that folferve to increase the Symptoms of wherethe Lungs, Brain, and the reft. Be- A too fides, the Fumes increas'd, in the quick sen-Blood, cause a greater Tension of Inflathe Vessels: and an Increase of the tions of Perception, and Sense of Feeling, sels, and in the Parts. They fometimes get Parts. out, into the larger Vessels, the Bladder of Urine, the Scrotum, the

Inflammations. Pains.

Uterus; inflating, distending, and causeing other Disorders in them. Fevers. The Biliofe Salts, being in too great Plenty, over heated, and thus thrown into it, over heat the Blood, and the Body: and bring on Fevers. They excite an harsh, uneafy and offensive Sensation, as they pass along: and being pitch'd or fettl'd on any Part, they cause in it Akeings, a Tenderness, and Soreness, or an Inflammation. In particular they bring on the Pleurify, Peripneumonia, Quinzeys, and even Gangrenes: as also Pains, Scorbutick, Rheumatic, Arthritick, the

Phlegm, Gout, and the rest. Phlegm, paffing into the Blood, thickens it, or Size in the Blood. Tre-

and renders it fizey. When it hap-pens to be very gross, it moves un-certainly, and irregularly, in the mors, Convulfions, Paralytic Vessels, by Fits and Starts, cause-

Affections ing Twitchings, Subfultus's, Para-lytic Affections, Tremors, Convulfions: impacts in the fine small capillary Blood-Veffels, obstructs them, keeps out the biliofe Salts, the Principles of Heat and Sense, and by that means causes a Chillness, and

Hydro- Numbness of the Part. Crouded

in, in greater Quantity, it caufes Swel-and other lings Arthritic, OF dematole, Hydro-Swellings. pic: in the Glandulous Parts, Strumofe, Schirrhofe, Cancrofe Swellings, and Buboes: where Bile is prevalent, Puftu-Phlegmones, Boils. With Fevers, les, and the like these vitious Principles produce Ra-Eruptishes, Pustules, Carbuncles, and o-ons. ther Eruptions. To the same Prin- Cuta-ciples are owing the Erysipelas, the fections. Essere, or Nettle-Spring, Tetters, Scabs, Herpes, Elephantiasis, the Leprofy. Phlegm abounding in Chanthe Blood, and perhaps Part of it ges of the reposited near the Skin, gives this, Skin, and and the Countenance, a Cast of complexipale or, wan. The Biliose Mat-on. ter, vitiated, or redundant, thô never so little, gives a Sully, Tarnish, and Hue, of fuch Sort as the Salt, that happens to be most prevalent in it, naturally produces. These Appearances in the Complexion, proceeding from the very Principles that are the Causes of Diseases, do let those who understand, and can rightly distinguish them, very deep into the Condition of the Patient: and difcover the real Instruments of all his Ails; than which Nothing

The Faundice. The Scarlat Hue of the Skin in some Fevers: the Spots in others, and in the Scurvy.

thing can more happyly ferve to steer them in their Procedure for the Cure. But where the Biliose Matter happens to be thrown in greater Quantity towards the Surface, it discovers itself more evidently: and shines thorow the Skin, with greater Lustre, and in it's proper Colours, green, yellow, red, purple, blue, black; either diffus'd over the whole Habit, as in the Jaundice, the Scarlat and other like Inflammatory Fevers: or only fcattered in Spots, as in the Scurvy,

Vitious in the Natural Fluids :

Principles liofe Salts abounding in the Blood, discover themselves likewise in the Liquids fecreted from it, the Sperm, Lympha, Saliva, Mucilage; rendring them sharper than natural, as also hotter: and sometimes tingeing them with Colours fuitable to those

and Pestilential Fevers.

erementiids.

as also of the Biliofe Salts that prevail. in the Ex-like Manner the Excrementitious tious Flu- Fluids bring forth these Salts along with them. The Phlegm, rais'd by Spitting, is fweet, or bitter, or Salt, or acerb, or four: and tinged with yellow, or green, or black. The Sweat is falt, four: causes a Smart-

ing

ing and Pain as it passes forth, and frets the Skin. The Tears are hot, sharp, salt, corrosive. The Urine, The Stone of besides Phlegm, which, when crass, the Kidand in Quantity, sometimes impacts nyes, and in the Vessels, and contributes to Bladder. the Formation of those Concretions call'd Stones, in the Kidnyes, and Bladder, brings with it Salts, Saccharine, as in the Diabetes: or Diabetes, Ammoniac, muriatic, bitter, acid. the Stran-These frequently impart an Heat, Bloody Uand Sharpness, to the Urine; so as rine. to cause a Nephritis, and indeed Pains in all the Parts through which they pass: nay sometimes to corrode the Vessels, to such Degree as to wound, lacerate them, and fetch forth Blood. To the vitious or redundant Salts, got into the Blood, Blood: and other are owing the Uterine Hæmor-Hæmorrhages, and the Effusion of Blood rhages. by the Piles; as also Bleeding at Nose, Vomiting and Spitting of Blood; only, in the three last Instances, to the Corrosion, is added a Force, and Protrusion of Blood upon the Parts, happening by means of the Curb made upon the descending Aorta by the Stomach inflated.

The

the same

are very rarely

single.

Of their

Changes,

and Metastases:

and of

Crises.

Causes

Aposte-A crass Phlegm, frequently conmations, curring in these Cases, crouded inand Ulto the finer Vessels, stretches and thins them; and, if it do not burst them, renders them more lyable to

> be wounded by the Salts. Phlegm, thin'd, and impregnated with more or less of the Biliose Salts, ap-

proaching the Skin, and Surface, makes Apostemations, Ulcers, Whitflaws, Chillblains, Kibes. Phlegm,

cast upon the Bowels and interior Parts in fuch Quantity as to over-

distend, and finally burst the Ves-

fels, makes Apostemations of them,

as in an Empyema: and the Bile, corrodeing the Vessels, produces Ul-

The Causes of all cers there.

the Symptoms, and Difeases, proproceeding

all out of ceeding forth of the same Fountain, 'tis not strange that so many should

Source, commonly discover themselves, at Diseases

once, when the Morbid Principles,

there, are in Quantity, and happen

to be excited and put into great

Emotion. Indeed there is hardly

any one confiderable Symptom, that

ever offends human Nature, that

does not either precede, attend, or

follow the Small-Pox: or, in Truth,

any other Disease that happens to be very great. 'Tis for this Reafon that, being to treat, by and by, of the Small-Pox, I shall be obliged to confider so many other Diseases, and Symptoms: and to bring the Remedyes of all to the Test. 'Tis certain that they have so great an Affinity, and fuch a Connexion and Dependance, that no Man will ever rightly cure any that does not extirpate the Principles of all: and chace them forth, wherever they happen to refide, or to retreat. For they shift, and are flung from Place to Place, as the Organs can fuccessively dispatch and get rid of them. Hence come the Changes, and Reciprocations of the Symptoms: Metastases, and Crises. What contributes fomething to the confirming of this, is, that, in the Opening the Bodyes of Persons that die of any great Difeafe, besides the Parts that might be expeded to be injured by that, we find ordinaryly Marks and Tokens of Ravage upon others likewife, and fometimes upon all. Thô the Caufes of them be supply'd all out of the Reasons fame

why, thô the Caules come Jame Source. Diseases be so different.

fame Fountain, the Symptoms and Difeases, will be various, and more out of the or less numerous, as the Principles there happen to be more or less vitiated: to be in greater or less happen to Quantity: as the Body is costive, or free: as the vitious Principles happen to rife by Vomit, goe down by Stool, or turn into the Blood: and, when there, as they chance to hover about the Whole, or to pitch and light upon some Organ or Part: as any of these, happening to have greater Strength, casts them upon a weaker: as the Patient is in Youth, or in Age, in firm Vigour, or shatter'd and weak: as the Seafons, and Constitution of the Air, the Diet, Method of Life, and other exterior Circumstances, happen to be. Then, as the Morbid Principles are more or less vitious and exuberant, and are put into Commotion fuddenly or leifurely, the Difease is acute, or chronical, short,

Of the or long. Since the great Instru-Frequency ment of Digestion, of the Passions, of Difeases: and of Animation, and Life, of the of the Senses, and of Cogitation, is so much sertainty subject to be redundant and viof Life. tiated

tiated, and being once fo, all thefe become of course disorder'd, 'tis not strange that Diseases should be fo very common, and Health fo un-The Principle of Digestion is absolutely necessary: and 'tis as much fo, that the Bowels, and interior Parts, where it resides, or passes, should have much less Sense than the exterior. Were it not for that, they would be in perpetual Pain and Uneafyness, because of the Sharpness, and intense Action of this Principle. Having therefore only a leffer Sense, this Principle becomes frequently highly exuberant, and vitiated, before they have any Perception of it: or can discover it, and shew Signs of Injury, and Danger. This is the Reason that Difeases are frequently so violent, so fudden, and of fo difficult Treatment: and that fo few live out the ordinary Term of Life, or attain their Threescore Years and This Term is set, adjusted, Of Deand measur'd out, by the Number age: of of the Lacteal Vessels. Which Num-the comber is fuch as, the Body being ori-mon Periginally found, and rightly consti- and of tuted, Death.

tuted, will fuffice to convey Nourishment, and to support it, for that Term, or perhaps a little longer, if attended with only the common Accidents of Life. These are, unkindly Seafons, Inclemencies of the Air and Weather, the common Cares of Life, and every Thing else, in the ordinary Course of it, that disturbs Digestion, and a thorow Diffolution of the Aliment: or that præcipitates, and hurryes it out of the Stomach, fo fuddenly that there is not allow'd due Time for the Digestion of it, as violent Exercise just after Meals, or the like. The Aliment, upon fuch Accidents, being dispatch'd thus gross into the Lacteals, by little and little impacts, + Conf. 6. makes Gluts, and Stops +, in them: 69. infra and those Passages being one after another obstructed, and render'd ever after useless, the Dispatches into the Blood must be thereby leffen'd. The Strength, Vigour, and Nourishment, must lessen in Proportion. Confequently the Body must become gradualy feeble: as alfo lean, which therefore happens

usualy to People in Years, especially

in

in fuch Constitutions where the Biliofe Salts prevail *. As, by thefe * Conf. p. Stops, more and more of the Lac- 22. futeals are yearly fet off, with Age, the Body must continualy decay: and, when so many are obstructed that the rest cannot transmitt Nourishment sufficient for the Support of Life, Death must inevitably infue. This is the Lot, and common Fate of Man: and by these Accidents the ordinary Bounds of Life are fet out, and determin'd. But where, instead of a vertuous and wife Regulation of Life, there are great Errors, and Enormityes, that heighten and increase the Indigestion, as Gluttony, unfit Diet, Lust, and other exorbitant Passions, these do what tends to the Confounding the Lacteals, and the other like fine Organs and Vessels, much faster; by that means abridgeing Life, and bringing Death continualy nearer and nearer. As do likewife all those Medicines that dislodge the vitious Contents of the Stomach, and transfer them into the Lacteals. Nor indeed is this done by any Thing so surely, or with that Danger

bigh Importance

ger to the Frame, as by Purges that are flight, and impotent; fuch rousing and stirring up the Indigestion, but not carrying it thorowly and effectually out of the Body. Could either the Giver or Taker of fuch Medicines look afterwards into the Body, fee what Havock was made there, and how many Months, nay perhaps Years, of Life, were cut off by some of these Operations, 'twould certainly startle, alarm, and deterr them from ever again attempting the like. The great Wisdom, and the Happiness of Man, consists in a of the Art due Care of the Stomach, and Digeof Physick. stion: and in rightly ordering and adjusting the Principles there. the Business of the Medical Art to deliver the Rules and Precepts of this: and 'tis, at first View, evident of how great Moment it is to Mankind that the Professors of that Art be rightly apprized of thefe, and how dangerous, if they will interpose without that. This is certain, that, fo long as the Mechanism of the Body holds, even the Exorbitances, Errors and Disorders, there, dureing Diseases, must be reducible to

Laws,

Laws and Rules, by those who are duely apprized of that Mechanism, and the Causes of those Disorders. The Physician + that is so: + *O In and that superintends with the confidence of the Vigilance, and the confidence of the Humanity that an Assair of so high Hippocr. Trust requires, is truly what One, who was such himself, as well as § 5. the best Judge on Earth, styles a Philosopher acting after the Pattern of the first Framer of the Machine.

Of Remedyes.

From the History of Nature in all Ages, and Reflection on constitu-Things, we have sufficient Evidence puscles, or that the Principles, or original Cor- Principles puscles*, that constitute Bodyes, never of Natural change: but have continued, through never all Ages, the same. Neither is change or there the least Reason to think that * of any one single Corpuscle has been these, see broke: nor it's Figure, it's Magni-Hift of tude, it's Gravity, it's Solidity, or the Earth it's Constitution in any Respect, Part V:and been altered, from their first Pro- of Vegeduction to this Moment: nor in-tation Philof. deed that they ever will or can na-Tranjast. turaly N. 253.

No

tation of

Metalls.

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eiples of

Diseases. by those

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turaly be alter'd. 'Tistrue, their Mixtures and Combinations are infinite: and confequently their Difguifes, and Alterations, as to Sense, and exterior Appearance. But, when again feparated, and difingaged, they are ever the fame: and attended with all their original Propertyes. Brought to any Test, to any the highest Rack and Torture: committed to the most intense Fire, to the strongest Menstruums, they come ever forth again without any Essential Change. Which may serve Transmu- to shew how vain, delusive, and ill grounded the Effayes for Transmutation of Metalls have been. This Enterprize is now, at length, pretty well worn out of Credit, and Use; the Reasons of Things, and the Experience of Ages, going fo directly against it. But, in an Af-Notion, of fair of vaftly greater Moment, the Life and Health of Man, the Dothe Princtrine of Transmutation obtains, to this Day, as generaly as ever: and, as our Age hath fully shewn, with call'd Alvery great Success, even to the sines, who meanest and most illiterate of the Undertakers. How great Miscar-

riages

riages soever there may have been ley chimein the Metallick Way, 'tis most rical and imaginacertain there hath been very much ry. Gold drawn forth by this. But, to treat the Thing as gently, and tenderly, as may be, as to any Changes wrought to the Advantage of the Patient: any realy good and lasting Effects of those passing under the pompous Title of Alterant Medicines, all Nature is filent. On the contrary, several of those in common Use have very ill and mis-chievous Effects. There are indeed fome that make the morbid Principles shift, and the Symptoms confequently to change: others that imbarrafs, stifle or suppress those Principles for a while: or that stupefy the Organs, rendring them insensible of their Annoyance; but, if they remain still within, and haveQualities that are injurious, thefe Qualities are natural, inherent, and never defert them. So that, fooner or later, as the Principles can difingage themselves, they will not fail again to be injurious. Besides, the Medicines, that captivate them, will be at least as likely to capti-

vate other Principles there that are good, and useful; and indeed needed by the Body for the Time. Change e- that, in fine, those vitious Principles to the Ad- must be thrown out by Art, if that of the Bo- be not done by Nature, in her dy, but by own Defense, either as incited by a succes- them alone: or when, to the noxifive Renovation of ous Principles within, Medicines, Things in perhaps more noxious, are charged Removeal in upon her. As Phlegm, and Inof the nox digestion, stagnateing, becomeing ciples, in thereby putrid, and furnishing forth Order to a too great Quantity of the Biliofe the Substi Salts, is the Cause of all Diseases, tuteing those that these cannot be remedyed but by are natu- Removeal of that Caufe: Makeing Way for a new and better Digestion, and for a gradual Renovation * of * Conf. \$ 56. all Fluids. As to the Salts, thô infra. there be none within besides what are natural, if they be multiply'd, and their Number too great, thô, while fewer, they excited a placid, now, increas'd, they must excite a painful Sense: and, if in Number fufficient, lighting upon some Part, destroy that, or perhaps the Whole. Nor is this to be avoided, unless the Salts be retrench'd, and their Num-

ber lessen'd. But, if there be within Salts that are vitious, and improper, they will ever be fo, as long as they continue there: and therefore they ought to be dismis'd, as foon, and as effectualy, as may be. All Nature and Reason concurr and center in this. In the Discourse before me + I shall periments give fome Intimations how far Al- of Evaterant Medicines may be made sub-cuant Mefervient to this Design: and like- The wife offer so much, relateing to the Prepara-Practice of Evacuations, that there Body will be no Need to enter into any needful to particulars of that Subject here. For vacuatithe present therefore I shall only ons, and take Notice, that, in Order to the ges of vi-Makeing those Evacuations success- tions fully, the Acrimony of the peccant Matter, Salts should be temper'd: and their cable and Colluctations repress'd. For, if Care successful. be not first taken of this, they so segg. far infult and dissolve the Evacuant Medicines as frequently to frustrate and prevent their Operation. This indeed is the main Cause why some Bodyes are fo hard to be operated upon. The other Caufes are, overgreat Inflations of the Stomach and Guts

diate good this. rightly executed, in all Ca-

Guts: and Stops made in the Guts, by Phlegm, and harden'd Fæces, But, those Salts being subdued, which is not so happyly done by any Means hitherto known as by Interposition of Oyls, and Unctuous Medicines, they are the more eafyly dealt with, and ved. Then the Stomach will, by these Medicines, be guarded against Effects of their Erofions, and the Pains they are wont to cause. The Membranes will be render'd lubricous: and the Passage, of the vitious Contents, out of the Stomach and Guts, facilitated. Besides, the Heat, and the Fumes, arifeing from the Colluctations of those Salts, will be thereby lessen'd: and consequently the Inflation of the Stomach, it's Preffure upon the descending Aorta, and the Affections of the Back, Thorax, and Head. The Passions, Senses, and Thoughts will come to a better Regulation, and more correct Discipline. The Salts, to which, passing into the Guts, Gripes, the Colic, and Dysentery, are owing, will be bridled: and render'd less pungent and offensive. The Fumes,

the Cause of the greater Stops of the Guts, being lessen'd, those Stops must lessen in Proportion: and confequently a lesser Quantity of the vitious Salts, and putrid Phlegm, be turn'd into the Blood, and up-on the Habit. So that the Effects of them there, the Paralytick Symptoms: the Fevers, the Inflammations, the Pains, the Swellings, the Pustules, or other Eruptions: the Sully of the Complexion, the Difcolouring of the Skin, Jaundice, Spots, Confumptions, and the Depredations upon the Flesh and Habit: the Vitiations of the Lympha, and other natural Humors: the Overcharges upon the excrementitious, the Urine and Sweat: those Erofions, and that Force upon the Blood-Vessels, by which Hæmorrhages are caused: and the Efflux of the Salts forth of Apostemations, and Ulcers, that renders them ordinarily to painfull, obstinate, and intractable; I say all these, upon the Tempering the Acrimony of the vitious Salts, and Lessening of the Stops and Turnings into the Blood, must be at a Stand, for the history that & the I was in Time.

Those good Ef. feets care ryd on. Diseases finaly eby Evacu dicines ..

Of other Methods of Practice.

Time. But, when after this, the Evacuations come to be difcreetly carry'd on : and the vitious Principles that, partly resideing in the Stomach, and partly flowing by Fancy, into the Guts, and thence into the ant Medi- Blood, caus'd all those Disorders, are taken in the Fountain, and artfully cast out of the Body, the Disorders must relax, abate, and finaly cease. They, who having had Opportunities of making Obfervations on the Body, Diseases, and Medicines, have done that with the Attention that is requisite, will fee that the Representation, here given in, is genuine: and founded intirely upon Nature. Nor will it be hard to bring to this Test all other Methods: and to form a determinate Judgement of each. For instance, to make Judgement of that Practice that pretends to operate upon, to correct, and fweeten the Blood, without first effectualy secureing and clearing the Stomach, the Source of all the Errors in the Blood: of that Practice that attempts to restrain and stop a Vomitting, a Diarrhæa, a Dysentery, without

without, haveing first taken Care to support and invigorate the Frame for the Time, flinging forth the vitious Matter that Nature, oppress'd with it, indeavours to difcharge by those Wayes: of that Practice that attempts to repress a Diabetes, a Profusion of Sweat, a Fluor albus, Hæmorrhages, Coughs, Spitting, Rheums, to repell the Causes of Pains, Swellings, Pustules, Scabs, without first intercepting and turning off the Principles that produce and fupply them, or clearing the Source out of which all are derived. Such Practice apparently defeats Nature in her Indeavours to rescue the Constitution, and save Life.

This requisse to the Everting of the

Laliens.

AN

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An Idea of the Nature of Man: of the Disorders to which it is obnoxious: and of the Method of Rectifying them.

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THE



THE STATE

OF

PHYSICK:

AND OF

DISEASES;

With an Inquiry into the Causes of the late Increase of them: but more particularly of the SMALL-POX. With some Considerations upon the New Practise of Purging in that Disease.

I. IFE, at best, is short: The and very unhappy of this Diswhen not attended course. with Health. Indeed, without that, Man is little capable of Comfort to Himfels: and less of Doing Good to E 2 others.

others, and to the World; thô this be the true End of Life, and what only can bring back to an exalted great Mind a Pleasure that is folid and lasting. But yet we have of every Side too plain Evidences on how uncertain a Foundation Health generaly stands: and how much Difeases gain Ground, especialy the Small-Pox; which have made great Havock : and committed cruel Outrages of late, here amongst us. For the Regard I have for my Country, I could not look on, and observe this, without real Concern, and Uneafiness. But that began to lessen when I found, amongst those Commentaryes, which Dr. Freind has now lately published upon Hippocrates's 1st and 3d Book of Popular Distempers, One concerning the Small-Pox. Thô when I come to read this, and to confider it, how great foever my Preposseffion may be in Favour of the Author, I cannot affent to the Method, there propos'd, of Purgeing, upon the Access of the Second Fever, in the confluent Small-Pox. Tis true, he indeavours to support

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others

it by the Authorityes and Practice of Rhazes, Dr. Sydenham, and Dr. Radcliff +: and by the joint Testimo- +P.87,88. nies, and Opinions, of some Physitians now liveing; whose Letters he has there publish'd *. Though I * P. 103. am far from being wanting in De- & Seqq. ference to these Gentlemen, I cannot deny but that I could much rather have wish'd, that, after he had recited the Symptoms, he had fet forth the Causes of them: and fix'd a Test and Standard of Nature, whereby fome fure Judgement might be made of this Affair. But, he having not done that, I shall attempt it my felf in the best manner I can; the rather because I think that Method, of Purgeing, not attested either by Reason, or Nature : and indeed because it has proved frequently not only dangerous, but fatal. Even a Looseness, brought on by Agents within, and that has been the Work of Nature, has, in Defiance of Remedyes, and of the utmost Skill, and Care, but too commonly carry'd the Patient off.

II. In every Thing that Dr. Of Theoryes, and Freind hath hitherto published, and Hypotheparticularly the present Commentafes. Philosophy ryes, he hath advanced several Hyof great service to potheses; some of which are rightly supported: and the rest all so Phylick The Ne ingenious that I cannot but be ce Mity of pleas'd with them. But then I Inquirethe Causes can see no Reason to debarr my ing into of Diseases, self of the same Pleasure from those

* Epif.
Dedic.p.
15. &

of Dr. Willis, Dr. Sydenham, Dr. Morton, and other Physicians, to whose Hypotheses Dr. Freind * is fo very averse; he haveing not, exclusive of others, the fole Privilege of entertaining the World in this Way. Indeed the forming Hypotheses is what the Ancients, from the first and most early Times, have given numerous Precedents of: as have likewise the later Philosophers of most Nations. Our own hath not been behind her Neighbours in this Respect; the Hypotheses of my Lord Bacon, Dr. Gilbert, Mr. Hobbes, Mr. Boyle, Dr. Wallis, and Others, haveing been receiv'd with Applause all over Europe. Now lately Sir Isaac Newton hath advanced feveral very extensive and conside-But You, Parkerial warm rable

t What.

rable Hypotheses. Indeed the Delivering these to the World is the main Defign of what he has publish'd: and One of these, that of Attraction, Dr. Freind hath undertaken peculiarly to illustrate and confirm f. Nor is there Reason to + Pralett. think that the Philosophers of all Chym. Ages and Nations, have judg'd wrong in this Respect. They who are universaly allow'd the very greatest, and wifest of Men, have been, and still are, intent upon the Makeing of Observations, and Experiments: and furely that must be in Order to some further End. These would be vain, and wholey useless, were not some Reflections made, some Conclusions drawn some Theory or Hypothesis rais'd from them. 'Tis true, the most exact Caution ought to be used that those Hypotheses have good Warrant, and firm Support, from the Observations and Experiments: and fuch must be assuredly of the highest Importance, and Service. They must, of course, pave the Way to the greatest and most usefull Truths: and fuch as, being abstruse, and E 4 pro-

profound, would otherwise ly ever wholey in the Dark. They must lead to Discoveryes that, without those Hypotheses, would perhaps never be once thought of. This every Man, who thinks, or ever himself reflects, cannot but be conscious of: and there are so many noble Examples of it in View of all, that 'tis needless to set forth any here. Nor indeed is any Man more fensible of this than Dr. Freind. 'Tis true, he is, now, a little out of Humour, with some particular Theoryes; but hereto-+ Emme- fore he very warmly afferted + the great Ulefullness of a Theory in Physick; recommending * the Com-* Ibid. in posure of One, very pressingly, to the Physicians of England. And, thô he rejects the Hypotheses that have hitherto been attempted, he thinks it practical to form fuch as may be, in many Respects, equaly certain with those of Geometri-| Ibid. in cians ||. Such I should rejoyce to fee. Nor, if I may presume to pass Judgment in this Affair, can any Man more fitly ingage in it than the Proposer. Mean while it must

nolog. p. 186.00 Segg. Prafat.

be allowed that he who has, by proper Experiments, rightly inform'd himself of the Methods of Operation, and the true Propertyes of the feveral Things used in Medicine, who is duely apprifed of the Mechanism of the Body, and the Laws of Action there, while the Body is in Health: as well as what is amifs, and in what particular Manner those Laws are broke in upon, under each various Difeafe and Symptom; fuch a Physician, I fay, has vastly the Advantage of One, who has not that Accomplishment, and only practifes upon Receipts. The former governs and leads the Distemper: the latter is intirely led by it. The one is in clear Light: the other altogether in the Dark, acting wildly, uncertainly, and wandring from one Receipt to another, till perhaps Things are gone fo far that rational Help comes finaly too late. The one understands the Course and Succession of Things within, fo as to know the proper Manner, and Time, of interposeing in such Sort that no Opportunity of Administration, and Giveing

ing Relief, escapes him. The other is puzzleing, and, very likely doing only Hurt, all the while. all Men living a Physitian has need of the highest Wisdom and Confideration; nor is every thoughtless Animal, by any Means, capable of the Practife of that noble Art that is intrusted with the Superintendence over the Health, and the Steerage of the Life of Man. 'Tis true, the Empiricks, of old, contended * that the Search into the Procedure of Nature, or into the dark and latent Causes of Things, was needless, and nothing to the Purpose; fince 'twas not of Use to know what might bring on a Disease, but what would take it off. But the more rational Practitioners, rightly enough, judged this Enterprize, of Takeing off they knew not what, a

[†] Neque---dicere Consilio Medicum non egere, & irrationabile Animal banc Artem posse prastare. ---Salutis bumana prasidem Artem. Celsus Lib. 1.

^{*} Obscurarum verò Causarum, & naturalium Actionum Questionem-supervacuam esse contendunt. --- Latentium Rerum Conjecturas ad rem non pertinere; quia non intersit quid Morbum saciat, sed quid tollat. Ibid.

great Absurdity. 'Twas firmly their Persuasion that 'twas not practical | for any One to know in what Manner to set about the Cure of Diseases, who was altogether unacquainted whence they proceed: and that he alone could do that with Success. who had thorowly inform'd himfelf of the Causes of them. Our great Business therefore is to get Intelligence of those Causes +. This is the Voice of all found Antiquity; of which no Man was a better Judge than Celfus, a more diligent Collector, or more faithfull Relator. All the most judicious Writers of Physick, to a Man, from those Times quite down to ours, have fallen into the same Sentiments: and unanimously perfued the same Defign. I am the longer upon this Subject, and the more follicitous about it, because the Professors of this Art are not intitled to any Success further than merely as they

Neque enim credunt posse eum scire, quomodò Morbos cuvare conveniat, qui unde hi sint, ignovet. -- Eum verò recte cuvaturum, quem prima Origo Causa non sefellerit. Ibid.

† Conf. S. 35. infra.

are appriz'd of that Knowledge. In . deed the Thing is evident of itself, and plain common Sense. Let any Man, who is guided by this, pass Judgement on the Physician who is Operating upon, Altering, or Removing a Cause, of which he has first obtain'd not the least Information: and knows not, either of what Nature it is, or where it exists in the Body. Nor can a Man well forbear admireing that there could be, at this Time o'Day, Advocates for this Practife: and fuch who make it their Business to expose those who inquire into the Causes of Diseases. Whatever may be the Case of these Gentlemen, They who duely apply to the Study of Nature, and to the Reading the faithfull accurate Observations of those that have gone before, can never want Light fufficient to lead them to what they are in Search of. Nor will I be brought to believe that a Gentleman of the Learning of Dr. Freind, can be in the Dark as to this Affair. Which makes me fomewhat wonder that he should openly give out that the

the Causes of Diseases are hid to us, and will probably ever be so to This is, indeed, inconsistent with what he had formerly written: and a Theory in Physick, that takes not in the Causes of Diseases, cannot carry with it much Demonstration or Mathematical Certainty *. Then he is much in the wrong, where he afferts that Hippocrates bas not a Word concerning the Causes of Diseases. So much, that, in almost all his Works, that fagacious Writer is fearthing into, and pointing forth those Causes. Particularly in the two very Books that Dr. Freind has here publish'd. In Order to the forming a Judgement, and rightly distinguishing of Diseases, amongst other Things, he directs to inquire what is voided by Vomit, by Urine, by Stool | : and, under feveral Cases of the Fevers that he has here related, he takes Notice that the Vomits and Stools abounded

[†] Hippocrates-De Morbi Causis, que fortasse nos latent, latebunique semper, ne Verbum quidem secerit, D. Freind Pras. P. 14.

^{*} Vid p. 56. Supra. 4 Epidem. 1. Sect. 3.

fra.

with Bile, and with Phlegm; which two very Principles he elsewhere, over and over assigns directly as the Causes of Fevers. I shall have Occasion to produce the Places out of † 6 14.in him by and by +; and fo shall not need to do that here. Nay it is a Maxim, with him, first | to fearch out the Causes from which Diseases arife: then to go on to other Things, and to the Cure of Diseases, particularly those that are topical, of which he is here treating, No Man can furely be more full, clear and express in this than Hippocrates is. Indeed he sticks not, very decisively to declare those * Physicians nothing better than Idiots who are ignorant of the true Cause to which each Disorder of the Constitution is to be ascribed. Nor can any Thing be more rational than this Doctrine. He who has the deepest Insight into

Nature, and is the most thorowly in-

* Tès in 585- és istatas- To use aittor agrosusras. Hippocr. wei apzains inleuns. 9. 38.

form'd

II Tony d'ulpor ras σερφάσιας, ώς χελ, गई చేశ वा ४४ ज्वा २ ४००), जी त्ये वं अत्र देशवा वे रि, में त्यं वं मel Tà zweia inda. Hippocr. wei yuvain. L. I. Sect. 3

form'd of the Causes to which Difeases owe their Origin, is evidently in the furest Way of Extirpating them +: and how much foever it may be vilified by those who have not confider'd, or apply'd to it, 'tis the Judgement of Ages that Physick will be never rightly fupported without the Aid of # Philosophy. Nor were Physicians * eminent, or their Cures confiderable, till other Learning was join'd to that of Physick. Then first this Science was reckon'd a Part of Philo-Sophy: and the Cure of Diseases, and the Study of Nature, took both their Rise from the same Authors. Anatomy was cultivated ||, and the Bow-

† O deisa yvis, deisa अद्युमिता.

+ Natura rerum Contemplatio -- Medicum ap-

tiorem Medicina reddit Cels. in Præf.

Morborum varia Genera nascantur, Neminem putant bis adbibere posse Remedia, quas ipse ignoret. Necessarium ergò esse, incidere Corpora Mortuorum, eorumque Viscera atque Intestina scruztari. Ibid.

^{*} Nulli clari viri Medicinam exercuerunt, donec majore Studio Literarum Disciplina agitari cæpit.--Primóque medendi Scientia Sapientia Pars habebatur; ut Morborum Curatio & rerum Nature Contemplatio sub iisdem Aufforibus nata sit Ib.

els and Intestines search'd into, with great Diligence. Nor was any one allow'd capable of Relieving the Distempers, and D. sorders, of those Parts, whose Structure and Fabrick be was unacquainted with. Noteing this is the more feafonable, because these so laudable and neceffary Studies are not only fallen much into Disuse, but they who cultivate them ill treated by those who do not; which I hope will ferve in Excuse of my haveing offerr'd fo much in Favour of the Study of Nature, of Inquireing into the Causes of Diseases: and of the Use of Rational Theoryes and Hypotheses.

The Method observ'd in this Discourse III. For my own Part, I shall, in the Work before me, keep close to Observation, and to the Symptoms: and not presume to advance any Thing that does not appear to me to follow, as a Deduction, from them. If this be not every where so obvious, and plain, 'tis because I would not be over prolix, and tedious: and I hope, where I am most concise, closer Attention, to the Connexion, and Chain of Things, will, to those who

who are capable of Judgeing, make out the Reasoning, and clear the Deductions. This, of Deduction, and Inference, is the only Way we have to come at the Truth, and any fure Information in this Affair. The Body is not of Crystal, nor the Parts fo transparent that the interior Constitution of them should be subjected to View: or what is transacted there capable of being demonstrated to the Senses. Had that been fo, this had not, after all the Attempts that have been made, lain in the Darkness which it must be allowed it hath hitherto done. fuch Light as it is capable of, I will not be wanting, to my Utmost, to set it in. I have only one Thing more to add, which is, I expect to have what I here offer, not examined by fuch Hypotheses, or Opinions, as may have, perhaps too generaly, prevail'd: but brought directly to the Test of Nature. This granted, I proceed to deliver it as briefly as may be.

IV. Some of the first Symptoms, Of the the Nausea, the Sickness, the Reach-Apparaing and Vomiting, the Inflation and first Sta-

tensive

dium, of tensive Pain of the Stomach, the the Small- Cardialgia or Sense of Burning at Symptons. The upper Orifice of it, the Corrotoms. The sion and Tenderness there, and Origin, and the sometimes in the neighbouring Parts, seat all point out that Organ, so plainly, of them. for the Seat of these Symptoms, infra. as to put the Thing quite out of Doubt. The Yawning, and Stretching, attend, come, and go,

as to put the Thing quite out The Yawning, and Stretching, attend, come, and go, with the Symptoms before recited. The Pain of the Back, just behind the Stomach, the Straitness of the Thorax, the Oppression of the Heart, the Anxiety of the Præcordia, and the Faintness, never continue long after the precedent Symptoms recede. This shews that these depend, thô fomewhat more remotely, on the fame common Caufe: as do likewife those of the Head. tain Principles, of whose Existence in the Stomach Proof will be given by and by t, hot, sharp, corrofive, in great Emotion and Disturbance, offend and annoy that Organ: fend up Fumes and Steams, heat, fret, and corrode the upper Orifice of the Stomach, the Sear of

the Cardialgia, and render that, and

the

† Conf 6 13. infra.

TOT,

the contiguous Parts, fo far as those Steams happen to penetrate, tender and fore: inflate and diftend the Stomach fo as to force up the Diaphragm, contract the Thorax, confine and diffress the Heart, and Lungs: bear the Stomach hard upon the Back immediately behind it: and upon the descending Trunk of the great Artery there, fo as much to compress and straiten it, and to impede the Current of the Blood downwards. By that means a greater Quantity of Blood is fent up to the Head, and to the Brain; which being thereby crouded and overcharged, there necessarily infue feveral Symptoms and Evidences thereof; e. gr. a Heaviness and Weight of the Head, with a Senfe as of fome new Fluid thrown in there in an unufual Quantity: a Tension of the Blood-Vessels, and Pain of the Head. Likewise a Dozeyness: a Vertigo: Epileptic Infults, especialy in Children, and young Persons, that, being of more tender Frame, are more eafyly affected. The rest of the Symptoms are a Thirst, Heat, Fever, Rigor, Horror, Sweat. These are all apparently of a Species. The Principle that causes them will be assigned presently. 'Tis indeed the same that has been already intimated, being hot, sharp, penetrant, active, and in Emotion. While 'tis in the Stomach it produces the Thirst. Passing thence, by little and little, into the Blood, and upon the Habit, it brings on there the Heat, Fever, and the other last recited Symptoms. Thefe, and the precedent, are the Symptoms that attend the Apparatus or first Stadium of this Disease. 'Twill, I suppose, hardly be needfull to note that all of them rarely, if ever, befall the fame Person. They are, in each, in less or greater Number, in Proportion to the less or greater Quantity of the morbid Principles in Emotion; of which there will be produced the Evidences in their proper Place.

Of the V. The Symptoms thus set forth, Govern- I should go on to consider the Rement of medyes. But first I shall take the Passions Liberty to put in one very material under Dis- Caution, concerning the Conduct eases.

of the Physician, in this so nice a Cafe, and in which Things are ordinarily in fo great an Hurry and Præcipitation. Now his Masterpiece, and chief Care, is to raife the Fancy, steer and rightly rule the Passions, and continually keep up the Hopes of the Patient. This is a great Art: and fo necessary that the best Medicines, directed with the utmost Wisdom, in the Small-Pox, and other great acute Difeafes, will prove generaly ineffectual and fruitless without it. The Reason of which will be evident to those who are rightly inform'd of the Contrivance of the Body of Man: and know that the Stomach, which is the Fountain of those Principles that fupply, form, and raise the Small-Pox*, is likewise the Seat of * con. the Passions †. Now every un-\$15 in-seasonable Rouseing of them must † conf. needs disturb the OF conomy, and p.4. Supra. regular Egress of those Principles; upon which OE conomy, and Regulation, the Event of the Disease depends. I am the more particular in this, because 'tis certain there are greater Numbers hurryed out of Life

Life by the Diforders brought on by Fright, Surprize, Apprehension, the Bustle, and indiscreet Shew of Concern by Relations, Friends, and those about the Patient, than by the Malignity of the Disease. From the feveral Phænomena, that attend Fear, 'tis certain the Pylorus is frequently closed: and fo the Communication betwixt the Stomach and Blood, intercepted, for the Time. Now, the Stomach being the Source of the Matter that, fent thence, causes the Small-Pox, this lets us into the Reason why that Passion gives so great and sudden a Check to the Small-Pox: and proves ordinarily fo pernicious and fatal.

Of the proper in of Cordials.

VI. What I next offer shall be Diet : and relating to the Diet in the Small-Pox. This ought to be exactly the Small- temperate, not heating, nor cooling. Pox. Also Nor should there be any Thing allow'd that is not plain, thin, and light; fuch as Gruels, Panada, and the like. Nothing that is grofs, heavy, strong, or that may imbarrass the Stomach. On which Account likewise it ought to be given only

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in small Quantity; the Reasons of which will be very manifest by and by. The Drinks ought likewise to be very fimple: and temperate, not heating, nor chilling. High Cordials, strong compound Waters, and Spirits, are never to be given in Quantity, or without great Caution. Not even in case of Faintnefs. That is much more certainly relieved by other means: and what these contribute is short, transient, and indeed meer Amusement. But they are fure to inflame, and to increase the Fever; a Thing of vastly more dangerous Import than that Faintness. Beer, and fermented Liquours, cannot be proper. Things in the Stomach are now ordinarily in too great Colluctation and Ferment of themselves. Nor indeed ought there any Liquids, Sack-Whey, the Harts-horn Drink, or the like, be given, but in moderate Quantity; least, by them, the Morbid Principles, in the Stomach, be too much chill'd: diluted, thin'd, and fwilled into the Blood; whereby the Heat, and Fever, subservient to the Defign that Nature is F 4

carrying on, and to the Filling of the Pustules, must needs be quench'd, and allay'd: and the whole Frame much indanger'd. The main End of the Care and Vigilance of the Physician, in this Disease, is rightly to moderate and govern the Fever, to keep it from rising too high, or being too much depress'd: and the morbid Principles from flowing into the Blood faster than the Vessels and Organs can well * receive, and dispatch them into the Pustules.

* Conf. § 15.infra.

Of the Medicines:

VII. As to Medicines, the first Thing to be look'd to is that they be made, as far as possible, gratefull, and palatable; the great Secret in this, and indeed in all other Diseases, being, with a just Difcretion, to fall in with the Appetite: and to attend to the Claim of the Stomach. For this is the Voice of Nature: and to this both the Remedyes, and the Diet, ought ever most carefully to be adapted; with due Observation how each succeeds: and what Face Things put on afterwards. Without great Regard of the Stomach, neither the Digeftion,

ftion, nor the Nourishment, can ever possibly go rightly on. Befides, the Principles of this, and most other Diseases, proceed forth of that Organ. Things gratefull to it are fure to contribute to the Appeafeing and Allaying the Diforders and Commotions there: as Things offensive are, to the Exciteing and Increasing of them. Nor can I, I confess, ever enough admire that fuch Quantityes of Waters, both fimple and compound, and other Things should be given in Julaps, Apozems, and other Forms, that are not only ingratefull, but offenfive, and fome of them loathfome, even to Persons in Health, and to the strongest Stomachs. To them who reason upon Matters, it cannot certainly but appear fomewhat odd that those Things which would make a Man in Health fick, should make a Man in Sickness healthy. 'Tis of no little Importance that this Affair be carefully attended to. next Thing to which Regard ought to be had is the Number, and Quantityes, of the Medicines. For whatever they may be, or under however

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ever pompous Notions of Cordial, Bezoartic, Alexipharmac, or the like, they may pass; too many, or too great Doses, can never fail of doing Hurt. They are all of extraneous Nature: strange and unknown to the Organs and Powers of the Body. The Principles in the Stomach, during the Small-Pox, are in great Confusion and Emotion. The total Appealing and Allaying of This, is a Thing vain: and no ways practicable. Or, if it were, Injuries to the Stomach, and to the Digestion, and confequently to the whole Frame, would follow thence, too numerous to be recounted here. Then the Principles, in Emotion, are paffing into the Blood. Whatever some may fancy, and how specious foever the Titles of their Remedyes may be, they, who are rightly apprized of the Delicacy of the Fabrick of the Body of Man, and the Fineness of the Mechanism of it, will give but a very few of them, while Things are thus pofling down out of the Stomach into the Blood, and diffus'd over the whole Habit. When Nature has fo

so great and heavy a Task on her Hands, to increase the Burden; when she has a particular Drift and Defign Carrying on, to cast in any Thing that interferes, diffurbs, and offends her cannot but be dangerous. Things that would, at other Times, be innocent and inoffensive, may now prove very pernicious. feafonable and excellent is the Admonition of Hippocrates +, on the + need Occasion, that, in Fevers, the Phy- nasw. sician be perpetually on his Guard: Sett. 12. exert his utmost Skill and Indeavours to do good: and take Care, that, by his wrong Administration, Nothing of Harm befall the Patient; the Ills, that attend the Distemper, being, of themselves, enough for Him to grapple with. 'Tis certainly better to wait, to observe, and give Nothing, where there is Caufe of Doubt, than to venture to give What may prove wrong. 'Twere to be wish'd there were not, by the great Numbers of Medicines clutter'd in at Random, perhaps to please, or to amuse, not to mention fome less honourable Ends, more Havock made, than by Distempers.

forbents.

phoretic,

and A-

dicines.

infra.

'Tis but a too common Observation, even among the People, and intelligent Lookers on, that, in the Small-Pox, those who take the fewest Medicines come off ordinarily much the best: and that 'tis rare to fee those escape, and recover, who take many. I shall not furely be so far mistaken as to have this interpreted a Declamation against the Art of Physick; which cannot possibly be more needed in any Case than this. In so deep and intricate an Affair, not only discreet Conduct, and great Attention, but the highest Skill and Sagacity, is requifite: and for unfeafonable Intruders, and bold Medlers, there are but too many and fad Monuments of their Officiousness and Interpolition.

VIII. Pearl, and the rest of those Of Ab. conf. \$58. call'd testaceous Powders, calcin'd Hart's-horn, Coral prepared, and the Of Dia-other common Absorbents, as they ferve somewhat to repress the too lexiphar- exorbitant Emotions of Things in mac Methe Stomach, where that happens to be necessary, may be given in moderate Doses. In smaller, Gascoin's

Pow-

Powder, Goa-stone not perfum'd, Oriental Bezoar, or Lapis Contrayerva. Given in greater Dofes, they re-90 press those Emotions too much, and imbarrafs Things in the Stomach,restrain, and in some Degree, frustrate Nature's Intention of Transferring them into the Blood. Serpentaria Virginiana, the Volatile Salt of Hartshorn, and of Vipers, and the other like hot Medicines, have a quite contrary Effect. They joyn the hot Principles in the Stomach *: * conf.6 and promote the Hurry of Things 13. infra. out of it; Throwing them, sometimes, in fuch Quantityes into the Blood, as, where the Bile + hap-++ conf. 6 pens to abound, violently to exalt 13. infra. the Fever: at others, where Phlegm + is more prevalent, so to croud and glut the finer Organs, and the Veffels near the Surface of the Body, that they cannot transmit the Matter to the Pustules; so that they fall for Want of Supply: and the Morbid Matter, restrain'd within, confounds those Organs, and over-fets the Frame. If the Fever lower and fink too much, small Doses of thefe are that windelineforms the

Exigence

these may be given; but with the greatest Observance and Caution.

Camphore.

IX. Camphore is a Body whose Nature, Propertyes, and Effects are very imperfectly fet forth. 'Tis active, volatile, fubtil, penetrant, beyond Expression. They who have duely observ'd the Phænomena, and rightly attended to the Constitution of it, must have it in the utmost Suspicion. Whatever may be faid of it by two or three Systematical Writers, who are wont to afcribe almost all Vertues, and the Power of Cureing any Disease, to every Simple and Drug, the Tryals, that have been realy made of this, are far from affording the least Incouragement to any further Use of it.

Of A- X. Dr. Sydenham, takeing Notice wids, and of the Inconveniencyes that atCooling tended the Hot Method, fell, over hastily, into the other extreme: and recommended the Cooling. Reason and Nature give realy no Countenance to either. The Physician, who is steer'd by them, will make it his first Care to find out the Temperature that rightly suits the Exigence

Exigence of the Things: the Condition of the Season: and the State of the Patient. Nor will it be thought strange that a Man, of Diligence and good Sense of Dr. Sydenbam, should, after some Time, and further Experience, again quit that, as he had before rejected the hot Method: and fall finaly into the temperate. For he gave Acids, Small Beer, and other cooling Things, but very fparingly, in the latter Times of his Practife. This I learn from Mr. Malthus, his Apothecary, and intimate Friend: and I am the more forward to note it because, by Dr. Sydenbam's Writeings, Some, who attend more to Authority, and what they read, than to Nature and Things, have, in this Article, however right he may be in others, been led into a not flight Er-Tartarus Vitriolatus, Spirit of Vitriol, Juice of Limons, and other like Acids, cannot by any means be admitted in a rational Practife: nor do they ever fail of doing Hurt. They vehemently chill, and over much repress the Fever, at first: and as much exalt it afterwards. They

Medi-

cines.

infra.

They nearly approach the Nature, if they are not the very same, with the Salt, that constitutes the chief peccant Principle, in this Difease, which will be affigned on another

†6 40. in-Occasion +. Indeed they are an fra. Order of Medicines the most forreign to the Body: and the most contrary to Nature, of any in all the whole Class of Alterant Medicines; of which I hope to have Opportunity to give Instances in a

* 629,30. more proper Place. Of Blisters *, 32. infra. and of Bleeding, something will be

offered by and by.

XI. Being not well and tho-Oyls, and roughly fatisfied with the Reasons af-Unatuous fign'd for Giving several of the Medicines in Use in this, and some other Conf. 669. Difeases, and receiving not greaterSatisfaction, or Incouragement, from what I observ'd of the Success of them, I began to cast about for Others, that might better answer the Exigencyes of Nature: and was led, by some Reasons, and Reslections upon the Disposition of the sweeter Vegetable Oyls, e. gr. of Almonds, and the like, to make Tryal of them. What chiefly put me upon it

it, was their being of a Constitution fo directly contrary to that sharp, hot, corrosive, Biliose Matter, that will appear, presently t, + vid. to be the main Instrument, not only \$13. inof the Danger here, but of many of the other Maladyes and Ills of Life. Then I consider'd that, to those who like not to take them alone, by Admixture of Mucilages, or Pulps, or Conferves, these Oils are rendred very gratefull, and pleafant: that they are perfectly innocent, and of the Nature of Nourishment: and that there's not the least Hazard in the Use of them. The Event answered my Hopes. I was foon made fensible that they contributed greatly to the Frustrating and to the Subdueing of that sharp hot Matter, and, consequently, to the Restraining of the Fever, and of the other Symptoms, caused by that Matter. Infomuch, that, given, whenever the Fever * runs too high, they moderate it more happily and speedily than any thing else that I have hitherto light upon. Of this I had Proof in Mrs Sidley's, and some other Cases, that were reputed

reputed desperate, even by those who were unquestionably Judges. Indeed these Oils, given, in little Quantity, and at proper Intervalls, through the whole Course of the Disease, as there happens to be Occasion, greatly repress the Tumults, and qualify the Acrimony of the Biliofe Salts. By which means they mitigate Pains *: as also the Soreness, and Inflammation*, of the Skin, and Surface. So that, the Patient being thus rendred easy, and the common Impediments of Quiet, and Sleep, happily removed, Opiates are rarely wanted in this Method. Which, I confess, I like well of; not careing how little I call in their Aid; nor truely is there much Use of them, in any judicious or rightly regulated Practife, where Things are put under rational Conduct in Time.

^{***} As the Fever, Pain, and Inflammation, that attend Quinzyes, Pleurifies, Colics, the Dysentery, and Nephrick Affections, owe their Origin to the same Biliose Matter, vitiated, and redundant, Oils commonly give these also a like great and sudden Check.

XII. When, in the Small-Pox, Of Vothe Physician has the good Fortune mits: to be consulted in the Beginning, Effetts, and soon enough for the Purpose, and Con-he has a happy Opportunity of su- Conf \$50. perseding not only Opiates, but most infra. if not all the above recited, and indeed the rest of those call'd antifebrile Medicines: and, by Cast-ing out much of the Morbid Matter, rendring them, in great Measure, needless: as well as secureing the Ease, Safety, and Life of the Patient. They err ex-tremely, and run a great Risque of their Lives, who lofe this Opportunity; there then remaining frequently only a difficult and very dangerous Aftergame to be played. To pass over the other Symptoms; the Nausea, Sickness, and Reaching, are apparent Indications of the Need of a Vomit. And, where the Stomach is rightly prepared: the Inflation of it diminished, so that it may freely ply, contract, and expell the Contents of it: the Operation dextrously manag'd, closely and effectualy perfued, the Patient is immediately reliev'd

liev'd, and the recited Symptoms of Affection of the Stomach, totaly cease. Those of the Thorax, Back, and Head, all frequently do fo too, by fuch Time as the Operation is weil over: or at least, very much remitt and abate. The Thirst, Heat, Fever, and Symptoms of that Class, likewise considerably relax. This alone, without any further Light, shews plainly that the Principles and Caufes of all thefe Symptoms, as well those of the other Parts, as of the Stomach, were actualy refident in it; excepting only fuch fmall Proportion as, having before escaped thence into the Blood, brought on the Fever, and other Symptoms of the Habit. Which therefore lessen also, upon the Supply from the first Source being thus intercepted, and the Course of it turn'd off by Vomiting. According as the Morbid Matter, disturb'd in the Stomach, is in greater or less Quantity, the Symptoms will be numerous or few, and more or less pressing and intense. As the Vomiting fucceeds, and the Quantity of the Morbid Matter is thereby leffen'd,

lessen'd, the Symptoms lessen in Proportion: as do likewise the Trouble, and Danger, in all the following Scenes of the Difease. But, in some Bodyes, 'tis not a Thing fo practical to come near freeing and clearing the Stomach, with one Operation, as those, who are less conversant with this Affair, may imagine +. To be fure + conf & the utmost Care ought to be used: 16. infra. and a triffing and artless Management is much more likely to inhance the Symptoms, and the Dif. ficulties, than to diminish either. Whereas by a right and discreet Process, the main of the Business is ordinarily effected at once: and the Patient secured against any considerable future Infult; a great Part of those Principles, that bring on the fecond Fever, and the frequently dangerous Symptoms which attend it, that cause the Inflammation and Pains, that erode, fret, make Pitts, and deform the Skin and Face, that croud the Surface. and render the Pustules confluent, that ruffle the Frame, and bring Life into Danger, being thereby caft

cast out. So that afterwards there will probably be Occasion of very few Medicines: nor indeed of any Thing more than Care, and a difcreet Conduct and Government, as to Heat, Cold, Diet, and the like. Nay, where the vitious Matter in the Stomach happens to be little, and not over tumultuous and boisterous, a Vomit, interpos'd in time, and dextrously perfued, fometimes discharges, if not the Whole, so great a Share of this Matter, that the Fever ceases immediately: the Pustules, that perhaps begin to appear, come to a Stand, and vanish, their Supply being cut off by the Vomit: and the former State of Health returns. This is not faid without due Support: and I have feen more than one Instance of it. 'Twas particularly the Case of Lady Anne Grey. After the ordinary Symptoms of the Stomach, Back, and Head, dureing the Apparatus; on the Morning of the fourth Day from the Invasion, several Pimples were obferved upon her Face, Breast, and Arms. I was fent for in the Evening; when caff

when they were fomewhat further advanced, and appeared pretty thick. There were present several, who were realy Judges, and very conversant with that Disease. Examining the Cafe, and Viewing the Pimples, all agreed they were the Small-Pox; which the Fever, and concurring Symptoms, likewise attested. A Vomit, given that Evening, work'd very plentifully: and, the next Morning, there was not one Pimple to be feen, nor was there one of the Symptoms remaining. She has continued well, fince, for 16 Months, to this Day. But I have feen two Instances where, the Small-Pox disappearing thus on the Operation of a Vomit, the Emotions in the Stomach have, after a few Days, recurr'd, the Small-Pox appeared anew, and gone on in the usual manner. What is deliver'd in this Section may be further illustrated and confirm'd by an Observation that I have more than once had the Opportunity of makeing, upon the accidentally comeing on of the Small-Pox, in fome presently, in others a while G 4 after after the Cure of a Chronical Distemper was effected and finished. On Account of which, haveing Occasion to make considerable Evacuations, the Small-Pox that, under these Circumstances, happened to follow, proved ever fo gentle and favourable, that the Patients had need of little more Care, or Confinement, than when in perfect Health. The Pustules were, in each, innocent, and few. Thus, Mrs. Mawson had not above 30 over her whole Body. Nor did they leave the least Scar, or Mark, on the Skin. Lady Glenorchy had very few: and her Skin was not blemished at all. When yet the former of these Ladyes had them in the Year 1710, the latter in 1713; at both which Times the Small-Pox were very epidemical and Nay the ordinary Period of the Disease was hereby changed, and the Time of it shortned. For, in these two Instances, and indeed all others that I have feen, where fuch Evacuations have happened to be made before the Access of the Small-Pox, they came to the Height, And the first of the second

and began to turn the 6th, or 7th Day, from the Eruption; which is a Day or two sooner than usual in the most favourable fort.

XIII. What is thus raised, by Vomit, being undoubtedly the very constitue Matter that is the Cause of the Matter Symptoms in the Small-Pox, an that is the Opportunity is hereby given of Ex-the Smallamineing and Inquireing into the Pox, and Nature and Constitution of it: and symptoms it appears to be of two kinds. The that atfirst is a putrid Phlegm: the other tend. a biliose Matter, Sweet, or Saline, or Sour, or Bitter, or a Mixture of all. It fets the Teeth on Edge. Nay 'tis frequently fo very sharp and corrofive, as almost to flea, and fetch off the Skin of the Throat, and Mouth. It rifes reeking, fumeing, and fometimes near fcalding hot. 'Tis not every One, who falls into this Disease, that has in him these Principles to so great Excess: nor will every flight perfunctory Management raife and discover them. But, where the Operation fucceeds rightly and effectualy, they commonly shew themselves in Abundance, and plainly enough. XIV. Dr. STIPLIOTE!

The Doctrine of Hippocrates, concerning Ferromable to this.

XIV. Dr. Freind, has now fet forth an Edition of two excellent Books of Hippocrates: and pays a great Deference to him, very justly. Few Ages have shewn a Man of so high a Genius, Penetration, and Capacity, as he had. Nor were his Vertues, his good Nature, and Humanity, lefs confiderable. Then his Diligence, and Observation, were fo great, and accurate, that 'tis no fmall Pleasure to me to find fo close a Conformity, of what he has deliver'd, with what I here offer fimply from the Contemplation of Treating professedly Nature. of Diseases, he delivers it, as a Standing Maxim, that all Difeafes whatever, that proceed from Principles within the Body, owe their Origin to Bile and Phlegm '. He assigns these two, as the Causes of all Diseases, likewise, on another Occasion 2. He afferts, very rightly, that there is Bile and Phlegm

* Νεσή μαζα το τον ανθρώποισι γίνεζαι απανία από χελής χροκεγμαζο. Τικεί Παθών. Se

brought

σώμαλι ενεόνων, επό τε χολής η ολέγμα . Hippocrates. Leel Nέσων 1.

brought into the World with the Body: that they are existent in it, ever after, in greater or lesser Quantity 3: and that each ows its Supply, and Increase, to the Meats, and the Drinks made use of 4. As these two Principles are in all Men living, fo, when they are rightly constituted, and in due Quantity, they have their Offices, and Uses, in the Body. But when they are vitiated, and redundant, they become morbid, and noxious. This Redundance he ascribes to Intemperance | very justly. As to the first Rise of the Bile, it being from the Aliment, the Stomach has the fairest Claim: and Hippocrates feems to pitch upon this, as the main Fountain of it . At least he over and over 6 reprefents Bile as existent in the Stomach: and he feems to imply that the Bile in the Sto-

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³ Tiel Newy 1. 2.

⁴ Ή χελή η το φλέγιμα ἀπό στήσν η ποπόν-τείφεται η αίξεται. Πεεὶ ιέσων Ι. 22. Copf. I. 2; & iv 3. & 8 & σων Παθών. Sect. I.

^{11 &#}x27;A poeto 17. L. 2.

⁵ Mayi. wei Néowy iv. 1, 2. Conf. L. 1. 27.

⁶ Hei Nigov. 1. 27. & iv. 8.

mach, and that in the Vefica fellea, are of much the same Constitution, by his treating of them indifferently and promiscuously as he does?. What he delivers concerning Diseases in general, he applies elsewhere particularly to a Fever: and afferts that this proceeds from Bile and Phlegm put into a Heat, and beating the whole Body 8. But he, elsewhere, very rightly, supposes the Bile to be the principal Agent: and that this, put into Emotion, and cast into the Blood, heats the Body, and brings on a Fever %. I do not transcribe this, and some other Passages, because of their great Length. Nay he descends to particular Fevers, and intitles the Bile to the Production of these; e. gr. The Febris Causus, the Leipyric Fevers 2, the Febris continens, the quotidian, tertian, and quartan A-

⁷ Περί νέσων. Ι. 27
3 Πυρείο: ή ἐπὸ των ή γίγνεθαι ' κόται χολή ή ολέγια θεριανθή θεριανείαι [κ] το άλλο παν σώμα ἐπο τέπων. κ) καλέεθαι τέπο πυρείος. Περί Νέσων Ι 22.

¹⁹ Heel N80W. 1. 27.

^{&#}x27; गिड्टो क्या Xi. & क्टो डीबांग हेई 34.

² Kosk. I.

gue'. So for the Symptoms which attend Fevers. He ascribes the Rigor + to Bile, and Phlegm, especialy the later, cast into the Blood: the Phrenitis to the Bile 5: the Heartburning 6, that sometimes attends, likewise to the Bile. The Heat of Urine he attributes, treating of the Stone, to Biliofe Matter 7. Nay the happy Crisis, upon which Fevers frequently go off, the Urine becomeing thick and turbid, he ascribes, very rightly, to Bile, and Phlegm, cast forth of the Blood, into the Bladder 8. Nor can any Thing be more rational than that, when these two Principles, which, while in the Blood, were the Cause of the Fever, are thus cast out, along with the Urine, the Fever should, in Consequence, decline, and finaly cease: and the Clearness and Justness of his Ar-

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³ Meei our. aveg 27. & Segg.

Theel viology. L. 1.22 conf. Emony. iv. 8.

⁵ Πεεί παθ x. σεὶ νέσων. 1. 28.
6 Καρδιωγμός. σεὶ νέσων. iv. 13.
7 Πεεὶ δερων. & c. 22, 23, 24.

⁸ Οκόσοισι ή ες την κύστη συτρεί τι χολής, ες εςται παχὸ Παχὸ ή τως φλέρμα] . Πεεί νέσων.
1. 27. Confer. iv. 8.

guing is very extraordinary. Then it stands upon a firm Foundation of Nature, Observation, and Fact. For, without that, his Authority is Nothing: and, where he has not those Vouchers, or where he reasons obscurely, Nature must be the only Rule. Thus, where he speaks of the Blood, and Water 9 or Serum, as concurring in the Production of Diseases, 'tis certain they cannot do that but as vitious Principles, a depraved Bile, and crass putrid Phlegm, are cast in, and mingled with them. So, to pass by other Instances of that, from his treating of the Head as the Source of Phlegm, and the Spleen of Water; 'tis plain he had not dissected, and made Observation on the Inside of the Body, with the same Accuracy that he had done upon all those Things that are turned out of it.

The ad. Sta-

XV. In an Affair of the great

[&]quot; Theel vsowy iv. r & alibi.

[&]quot; Free years, iv. 2.

Delicacy, Extent and Moment, that dium: or this is, 'tis hard to be held to Eruption Bounds. I am aware I have trans-Smallgress'd those which I first propos'd Pox. to my felf. But this Advantage there will be of it, that, so much being fet forth already, there will be now less Need of further Light: and I may be the shorter in my Account of the following Stadia of the Small-Pox. In the fecond, or Eruption, the Scene changes, from the Stomach, to the Blood, and Habit; the vitious Principles, the Bile, and putrid Phlegm, e-scapeing, and passing continualy out of that Organ, into the Blood. By which means the Emotions and Colluctations in the Stomach, are exchanged for a Perturbation and Diforder of the whole OF conomy: the Nausea, Reaching, and Vomiting, for an Uneafiness and Sickly Aching all over the Body: Heat of the Stomach, the Cardialgia, or Burning of the upper Orifice of it caus'd by the Ascent of hot Fumes, for a Heat and Fever in the Blood and upon the Habit: the Fretting and Corrosion of the Sto-WHS HIS mach,

mach, for a like Fretting and Inflammation of the Skin and Surface. Then the putrid Phlegm, paffing into the Blood, is push'd forth at the Surface in Pimples; which, gradualy inlargeing, and filling, become finaly Pustules. In Proportion as the Symptoms of the Blood and Habit increase, those of the Stomach gradualy decrease: and, finaly, go wholey off, in ordinary Cases, where the Disease is benign, and the Quantity of vitious Principles in the Stomach moderate. The Symptoms of the Back, Thorax, and Head, attending those of the Stomach, go off too. Than which, there cannot be a more convinceing Proof that they are all Links of the fame Chain; all proceeding from the Action of the same common Principles in the Stomach. Nature is plain, simple, and direct in all her Ways; her Procedure is regular, and wholey geometrical. They, who are rightly apprized of the Frame and Structure of the Body, useing due Care and Attention, will trace her Steps, descry her Motions, and regulate them

them without much Difficulty. Whereas those who are not realy Masters of that Science, but Practifers meerly on Receipts: and those who have obtain'd only a Cloud in lieu of Juno, Schemes, and Notions, taken from Books or Imagination, instead of a true and accurate Information of the Laws of the Animal OEconomy, will be ever bewildred, in perpetual Mists of Fancy: and much more likely to put Nature out of her Way, and to do Hurt, than Good. Where the Morbid Principles in the Stomach happen unfortunately to be exceffive, and in fo great Quantity that, notwithstanding what is detach'd thence, and fent into the Blood, there remains still behind, in the Source, fo much as yet to act, and continue the diforderly Emotions and Conflicts there, the Symptoms of the Stomach, and of the Parts affected by it, must continue of courfe.

XVI. Towards the latter End of The 3d. the second, or the beginning of the Stadium, Maturation or third Stadium, the ration.

Jaws and Throat become usualy

I fore:

fore: the Swallow difficult: and a Salivation arises. The Eye-Lids, Face, and Head, plump and fwell. The Hands swell in like Manner. The Pustules gradualy fill, break, and finaly refund a Phlegmy purulent yellowish Matter. As that Colour is owing to the Bile, fent forth along with the Phlegm, the higher the Yellow is, the fooner ever the Pustules break and run. For the Biliofe Salts, here, being more numerous, corrode faster, and fo the fooner make Way thorough The Botthe Skin and Pustules. tom of the Stomach, however tight and firm, is confiderably below the Pylorus, or Pass into the Guts. But when the Stomach is strained, and relaxed, the Bottom of it is still lower and deeper. So that 'tis rarely, if ever, quite emptyed. That is an Ordination of Nature: and this Organ is, to pass over all other Uses of it here, thus framed on Purpose that there should be a Restraint of the Aliment, and the Biliofe Salts, the Instruments of Digestion, there, that that great Work, so essential to Life, may be

the more furely perfected. By means of the same Mechanism of that Organ fuch vitious Matter, as happens to be there, is under a like Restraint. Nor is it, in this Case, ordinarily fo far drain'd forth, that there remains not behind fufficient to act a very confiderable Part there. 'Tis to this that the yet continueing Inflation and Tension of the Stomach is owing: and this Inflation bearing it on the descending Aorta +, the + conf. p. Blood is curbed, and thereby a fo 67. Supra. much greater Quantity of it cast up to the Hands, and Parts above, the Throat, Head, and Face. Now the Blood being highly charged with Phlegm, this is thronged and deposited in the Vessels of those Parts; by which means they are plumped up, and bloated: as also inflamed and rendred fore, in Proportion to the Biliose Salts that happen to be intermix'd. The thinner Part of that Phlegm which is thus cast upon the Throat, Chops, and Parts that are furnished with Glandules, finds its Way, and runs forth, thorough those Glandules; thereby forming a Salivation. The H₂ Phlegm

Phlegm derived out of the Blood, this Way, is all clear Gain: and the Organs eased, freed, and refcued from the Injury and Oppreffion of as much as is thus difmiffed out. On which Account Salivation is ever reputed a good Sign: and ought to be favour'd, and kept up, till the Symptoms

yield, and Life be secure.

The 4th Gon, of Pox. + Conf.

The of this Stadium not accounted for by Dr. Freind.

XVII. As to the Declination, or Stadium, 4th Stadium, if the Symptoms, depending, do now regularly abate, the Small- the Danger is over: and the Method tof Finishing the Cure, and 55. infra. Re-establishing the Frame easy, and obvious. But if, instead of that, Accidents the Symptoms not only perfift, but become more obstinate and vehement: nay, and perhaps new Ones arise, at a Time that the Fabrick is now finaly much shaken, and the Powers of the Body are reduced and impaired, the great Question is, what is to be done. Now that can never be fettled, and ascertain'd, till it be first determined what is amis. This is absolutely necessary: and indeed is the Practife of all who proceed regularly and with right

right Judgement, not only in Phyfick, but in every Part of Life, in Secular Affairs, in all manner of Arts. No intelligent Surgeon ever attempts to rectify a Diforder or Hurt of a Joynt, till he hath first fully fatisfyed himself, whether it be only simply a Bruise, or a Strain, or a Diflocation. Nor does a Watch-maker go about to repair a Watch, that is out of Order, and to fet it to Rights, till he has found out whether the Spring, the Balance, some Wheel, or what else is amiss in it. Had Dr. Freind, and the learned Physicians his Conforts, taken this Courfe, what they have advanced had been set in full open Light: their Readers had been capable of formeing a Judgement of it, and thereby, much of my Labour superseded. As it is, however unequal I may be to fuch an Undertakeing, I shall, in this, as I did treating of the first Stadium, following Nature, and reflecting on the Symptoms, and Circumstances, indeavour to give fuch a Representation of the State of Things within, as may ferve to Discover H 3 what

what are the Principles and Caufes of the Diforders that attend this Stadium. Because, till they be known, for any Man to go about to offer Remedyes: or to propose the Methods of Cure, that He, or Others use, must be furely too great a Paradox; especialy in a Matter of fo much Consequence, and on which depends the Fate of fo very large a Share of the whole Race of Mankind.

tempt to fupply that.

fra.

in this Stadium: gin and Causes.

XVIII. The Principles continueing, and the Caufes being the fame, the Source and Origin of them being likewife the fame, as will appear in its Place i, 'tis not strange that the Symptoms, in this, should Symptoms be nearly the fame with those in

the 1st. Stadium; one or more of which exert themselves according to the differing Accidents and Circumstances of the Case. These are. a Nausea, sick Qualms, an Inflation of the Stomach: a Pain of the Back: a Straitness of the Thorax, Difficulty of Breathing, Anxiety of the Præcordia, Faintness. Delirium, a Phrenitis, Comatofe Affections. A Diarrhæa, a bloody

Flux.

Flux. A Fever. Subsultus's or Twitches of the Parts. Suppression of Urine. A Strangury. Bloody Urine. Spitting of Blood. Of which Symptoms, those, the Manner of whose Production has not been suggested already, shall be briefly touched on here.

XIX. As to the Diarrhæa, or Loofe- Of the ness that sometimes happens, when Diarrhæa. the Load of the putrid Phlegm, in Turmoyle and Emotion there, is great: and the Matter towards the Bottom † of the Stomach, more † Conf. § putrid and vitiated than that above. 26 infra.

putrid and vitiated than that above, 26 infra. finaly ariseing, now annoys and molests it more than ever before, 'tis apt to cast it hastily into the Guts; which flinging it successively downwards, a Diarrhæa is brought on. 'Tis not possible but that, this vitious Matter being thinn'd, agitated, and passing by the Orifices of all the Lacteals, some of it must needs enter, get into the Blood, and upon the Habit, too much overpower'd with it already. Hence arises the Danger, that ever attends fuch a Loofeness. One common Accident in this Cafe, is the fud-

H 4 den

den Sinking or Falling of the Pustules. Which happens not, ordinarily, as some may imagine, from the Supply being turned off by the Looseness; but, on the Contrary, from a Charge of the vitious Matter upon the Blood, fo great as to obstruct the fine Capillary Vessels near the Skin: and fo to intercept the Supply to the Pustules. main Care of the Physician, in Case of a Looseness, ought to be to support the Patient for the Time: to remove all Obstacles and Impediments of the Paffage downwards, that the peccant Matter may not be hindred, and turned across into the Blood, but dispatched, as safely, and as foon as may well be, out of the Body: and finaly to appeale the Tumults in the Stomach, fo that it may cease longer to send down that Matter. The Stopping of it in the Guts cannot but be hazardous; as it may be turned thence into the Blood. But, so far as it is practicable, the Quieting + and Settleing it a while in the Bottom of the Stomach, where it had before refided, perhaps long * without fen-

† Conf. § 52. Sub finem.

55.infra.

fensible Harm, till thus incited, molested, and put into Emotion, must needs be of the utmost Advantage: and serve to gain a Truce, and Time, for the Organs and Parts to acquit, relieve, and disingage themselves of what was thrown into them too fast and freely before. They who are duely informed of the immense Quantity of putrid Phlegm that, apparently, and without any other discernible Mixture, passes off commonly in such a Diarrhæa, need not be far to seek for one great Cause of this Disease.

XX. Where it happens that, a- of the long with the Phlegm, a hot sharp Dysen-corrosive Bile slows down in Quantity thorough the Guts, it wounds and lacerates the tender Capillary Vessels, lets out the Blood, and so

brings on a Dysentery.

XXI. The putrid Phlegm thrown of the into the Blood, in greater Quantity Subfultions than can be flung forth, at the Twitches Skin, into the Pustules, tho not so of the great as wholey to obstruct the and of small Blood-Vessels at and near the those call a Surface, some of it, being crass and Nervine Affection thick, as also viscid, must move on, ons.

in those finer Blood-Vessels, uncertainly, and fo unsteadyly as to twitch and jerk them, and cause those Subsultus's that are commonly supposed to be of the Nerves and Tendons of the Muscles. They, who shall take the Pains truely to inform themselves of this Affair, will find that, in all other Cases likewise, most of those, supposed ordinarily to be Affections of the Nerves are in reality no other than Affections of these Vessels.

Of the fion of U-

XXII. That Part of this putrid Suppres- Phlegm, that happens, in the ordinary Distribution of the Blood, to come to the Kidneys, in order to be cast forth with the Urine, when it is course, gross, or in too great Quantity well and freely to pass, must make Glutts and Stops in the Vessels there; so as sometimes to obstruct the Secretion in these Organs, and cause a Suppresfion of the Urine.

XXIII. Biliose Matter, getting thorough the Lacteals into the Blood, and the Parts within indeavouring to difingage themselves of it, and to throw it out again with

the

the Urine, being hot, and sharp, must impart a Heat, and excite a Sense of Pain, in the Passages. Being accompany'd with a Vapor, proportion'd to the Bile there, this frequently inflates and distends the Bladder. By which means its Contraction, in Order to expell the Urine, is eluded: and fo the Egress of this much impeded, if not who-ley barr'd and stopp'd. Which happens whether the Urine, sent down, from the Kidneys thither, be in greater Quantity: or in lesser, by reason of their being obstructed by the Phlegm that likewife ordinarily enters them. Which are the feveral Circumstances that attend the Strangury.

XXIV. Where Phlegmis thrown of the into the Vessels of the Kidneys, Bloody Urine. with fuch Force, and in fuch Quantity, as to burst some of them: or, which commonly falls out, where the Biliofe Salts, passing out of the Blood, that Way, are so very numerous, or fo excessively sharp, that they fret, corrode, and lacerate the Capillary or fine tender Blood-Vessels, the Blood, must, of course, iffue

issue forth, and so the Urine be tinged with it. They who have, by proper Tryals, inform'd themfelves of the great Quantity of Biliofe Salts, Ammoniac, Acerb, Vitriolic, Bitter, that come forth ordinarily along with the Urine, in this Case, and in the Strangury, will have no Cause to be surprized at the Havock they make in the Paffages. Not but that the Heat, Pain, and other Symptoms, remain, commonly, some Time after the greater Part of the Biliofe Salts are thrown forth. For, those Salts, haveing diffolved the Mucus, wherewith the Ducts, and Passages, and particularly the Urethra, were before smear'd over and defended: fretted the Membranes, and rendred them tender and fore; even the ordinary Salts of the Urine then offend and hurt them, as they pass, till the Parts are healed, and a Mucus, to guard them, be fupplyed, by the Glandules, anew.

Of the Spitting of Blood.

XXV. As the Biliofe Salts, that pass with the Urine thorough the Kidneys, hurt those Parts, so likewise do they that pass forth, with

the,

the Phlegm, by the Way of the Lungs, Tonfils, and Glandules of the Throat, hurt these; sometimes to such a Degree as to wound the Vessels, and let forth the Blood. Tis to this Accident that the Spitting of Blood is owing: and what is thus spit is ordinarily so pungent and sharp as but too plainly to discover those Salts in great Abundance in it.

XXVI. It will not, I presume, The be judged unseasonable that Inquiry Reasons be made how it happens, that, the symptoms. Principles and Causes being still the that fame, the Symptoms produced by happen in them, and, in particular, the fe-commonly, cond Fever, are more fierce, and more urboisterous, now, than ever before vehement This Inquiry is the more needfull, than those because, at this End of the Disease, mer Stathe Body has been, for fome Time, dia. not only deprived and indeed incapable of Nourishment, but the tenderest, the most delicate, and unguarded Parts of it, attack'd and infulted by a merciless Enemy: and confequently the Danger is now greater, and the Treatment more nice and difficult. The Change, as to

† Conf. p.98,99. supra.

to Degree of Action in the Principles, I take to be owing chiefly to three Caufes. 1. The morbid Principles that are lightest, and float at Top, in the Stomach, are recent, less putrid, and offensive: and those, which stagnate at the Bottom +, are more stale, vitious, gross, ponderous, and noxious. As the others, above, are pass'd off, these, finaly riseing in their Turn, act a Part, and produce Symptoms, as much more troublesome than those others, as they are more vi-tious. They, who attend to the Operation of Vomits, rightly manag'd, cannot be Strangers to this Order of Things in the Stomach: or ignorant that the most dangerous, active, and potent Principles there lye commonly deepest. 2. The Dangers that attend rhæa, in this Stadium, have been fet forth already. Where it happens, as generaly it does, that the Guts are stopped, Passage that Way wholey debarred: and the Veffels, and Organs, all over the Habit, are fo full charged as to be now no longer capable of giveing Reception, 25

as in the foregoing Stadia, to more from the Stomach, all further Egress thence is hindred. So that the Principles, restrained there, fall into greater Colluctations, emitt more Fumes, cause a more intense Inflation of that Organ, and confequently a greater Affection of the Back behind it, and of the Parts above, the Thorax, and the Head. 3. At this End of the Disease, the Frame, being thus overcharged, and the Organs pressed, by the vitious Principles, indeavours to push them off, wherever Way can be gained: and it frequently happens that fome are thrown back, thorough the Gastric Vessels, into the Stomach t. Now these, falling into + conf. 5. Conflict with the Principles which 56. infra. were there before resident, raise new Emotions. Of this there are fo frequent Instances that there can be furely no Man, conversant with this and other Distempers, so inadvertent as not to have observed them.

XXVII. There remains yet ano- Why ther Thing to be consider'd, which the Small-is, by what means it happens that Pox are

the

fo much the Small-Pox are more numerous, more dant thick, and confluent, the Difease fome than of longer Duration, and attended to Others. with worse Symptoms, in Some, than in Others. Now this * pro-

ceeds ordinarily from the Matter in the Stomach, the first Source, being, not only more vitiated, but in greater Quantity. This is apparent from the Symptoms. e. gr. A Diarrhæa, or great Looseness, sometimes precedes the Eruption of the Pustules. Or perhaps these are forced out fooner: the Face and Head fwell, and the Salivation rifes, in this Cafe, earlyer than ordinary. The Fever, and the Symptoms of the Stomach, and Parts above, continue, notwithstanding the Eruption of the Pustules. These, comeing finaly to break, and run, make fometimes an incredibly great Difcharge. Then the phlegmy Matter, being in greater Quantity, and

^{*} I pass by, here, those Cases, where there happen unfortunately to be, before, Errors or Imperfections in the Organs: and particularly Obstructions of the Lasteals, so that the vitious Matter cannot pass freely, from the Stomach, to the Surface, to fill the Pustules. Conf. § 69. infra.

confequently haveing stagnated in the Stomach longer, is become more putrid: and iffueing finaly out of the Pustules, is more stinking and offensive. The Biliofe Matter, being likewise in greater Quantity, and more vitiated, comeing forth, frets and corrodes the Skin, makes Pits, Scarrs, and Marks in But that the Difference, betwixt the benign simple Small-Pox, and the confluent, proceeds mainly from the Difference of the Quantity of the vitious Matter, is evident from this, that, in the former, upon the Rife of the Pustules, the Stomach, and the Parts above, which are influenced and affected by it, become eafy: and the Symptoms do not continue, afterwards, as they commonly do in the confluent Sort. For, in that Case, the vitious Matter is in fo fmall Quantity as to be drain'd all off, or at least all that is in Emotion, and that molefts the Stomach: and is not for much but that it may be fafely and well received, by the Pustules, and Parts near the Surface. So that the interior, more noble Parts,

Vessels, and Organs, are not likewife charged, and glutted by it. But, in the confluent Sort, over and above the great Afflux to the Skin and Surface, there is still more and more continualy dispatched in from the Stomach; fometimes till those Parts and Organs are thereby stifled, and oppress'd. This the Symptoms recited point forth too plainly to need Proof. What further confirms the Doctrine here deliver'd is, that, by Evacuations, and Leffening the Quantity of the vitious Matter in the Stomach, the Symptoms and Danger are, in Proportion, lessened.

Remedyes the Symptoms and Accidents of the 4th. Stadium of this Disease, and of the Causes of each, thus finished, I shall next consider the Remedyes, that are wont to be now added, by way of Inforcement of those mentioned in the Account of the first Stadium.

AXIX. There are several who lay much stress on Blisters. 'Twill be too long a Digression for me here to deliver my Sentiments concerning

the Operation of these: and the so great and frequent Use that has been made of them, of late. 'Tis sufficient for the present Purpose to note that the Ichor, which they Discharge, is of a Constitution very different from that of the Matter flung out of the Blood into the Pustules: and consequently Blisters are far from forwarding the Delign of Nature in casting off that Matter. So far indeed that they must rather hinder it; for the Ichor. that they fetch out, is much thinner than that Matter: and by their thus drawing off the thinner Fluid, the thicker must needs be rendredless disposed to pass forth. Besides, Blisters do not affect the Fountain and Source of these Disorders: and fo long as the Principles, and Caufes of the Diforders, remain, disturbed, in the Stomach, any Attempt to operate upon the Blood may be incommodious: and must be fruitless. For there will be, after all, a perpetual Supply from that Organ, 'till 'tis cleared: and the Principles, in Emotion, be either exhausted, or again fettled and composed there. sed in

fatal.

These Then there can be furely none fometimes who do not know how frequently Bloody U-Blisters cause the Strangury, and Bloody Urine. The latter of these, tomy, as among several other Symptoms that also Cam- are irregular, and very dangerous, phore with Acids, u. Dr. Sydenham * represents as brought on, in the Small-Pox, by Ill-Mathat Case, nagement: and one of the Physicians, in this Confort with Dr. Freind, treating of some who voided bloody Urine, mentions two Means used on the Occasion. The One was Letting of Blood; which yet, he fays, was so far from restraining, that it increas'd the Bloody Urine: and hastened the Death + of the Patients. That was very obvious: and eafy to be foreseen by any One duely apprized of the State of Things, in this Case, without any need of makeing Experiments. By takeing Blood out of the Vessels, there's made, besides that Waste of the Support of the Life and Strength, Way and

> * Processus integri in Morbis, &c. p. 39. + Sanguinis Missio -- Mictum cruentum (quoties boc Morbo laborantes invadit) non modo non cobibet, sed auget, & Mortem in Procindu fan. tem accersit. Comment. p. 115. Room

Room for the Descent of the sharp hot corrofive Bile, from the Stomach, that descended and was thrown into them much too fast before. Now This being what lacerated and injured, not only the Kidneys, but the whole Frame, and indeed the very Instrument of Death,'twas certainly not hard to foresee, when let in thus, in fo fudden and great a Torrent, what would follow. 'Tis true these Experiments made the Thing out to Senfe: and shewed, what before was merely Speculation, to be certain, and Fact. Whether they were only of his own Trying, or likewise of some Other of his Acquaintance, it can hardly be thought, that the Patients had a very good Time of it. For my own Part, when I came rightly to consider this Practise, I could not keep out of my Mind a Remark made by Pliny, probably upon fome like Occasion; Discunt Periculis na-Aris, & Experimenta per Mortes agunt. N. Hist. L. 29. c. I. 'Twould be too great a Digreffion in this Place, or I could I 3 eafily

eafily fatisfy this Physician that Letting of Blood, which he preises as so bappy, and indeed as the only Remedy *, is as little proper, and not justly indicated, in Case of a Difficulty of Breathing comeing on; thô Death be not ever so fure a Consequence of it. other Means he mentions, in case of bloody Urine, is the Giveing of Campbore, twice a Day, and great Quantityes of Acids | Twould doubtless have been of Use, to all considerate and intelligent Readers, fince there is no President, nor the Authority of any One single learned judicious Physician, that I know of, for this Practife, to have fet forth the Philosophy, and Reasons in Nature, that induced him to it. They must furely be very cogent, fince he himself confesses that, as certainly as used, it ended in the Death f of the Patient. What feems mightyly to amuse him was, that, by it, the Symptom was taken off.

^{*} Comment. P. 115.

|| Campborâ bis in Die exhibitâ,& Acidis largâ |
Manu propinatis Ibid. p. 115.

† Ibid. P. 115.

Now One would be apt to think that could not well be judged much to the Patient's Advantage; since Death allwayes so certainly follow'd. I have been, more than once, call'd in, on Occasion of bloody Urine in the Small-Pox; but have never known that Symptom arife in my own Practife. Nor have I ever feen Camphor and Acids given. But, I must confess, I think that Administration must of Course, as, it seems, it does, only change that Symptom for fuch as are much worfe. While the Urine continues bloody, those sharp keen Salts, that must needs be so hurtful and dangerous within, are passing out of the Body, along with it. 'I's true, 'tis by a very wrong and ill Way; but they are much better out than in. There are those that live, and some pretty comfortably, with this Symptom by Fits, for many Years; so that 'tis plain this Symptom alone is not of fo very great and principal Regard. That Others may the better judg of the Reasonableness of it, I will shew, how this Practife takes off the Symptom; I mean as

well as I can; for 'tis deliver'd fo obscurely, and imperfectly, that I am in the Dark as to many Things. I know not, particularly, whether the Acids, that he gave, were Vitriolic. In case they were, as is very likely, they being in too common Use, 'twas adding Fuel to the Flame; Vitriol being the main Ingredient of that Bile that is the chief Agent in the present great Difasters. Dr. Freind has rightly and pertinently noted, in this very t com. in Discourse t, of the most virulent Hippocr. Humour that attends the Small-Pox, that it has the Effects of Oyl of Vitriol. But, if Juice of Limon, or other Acids, were used, the Thing comes to much the fame at laft. Camphore is a Drug the most volatil and active of any that I know in all Nature besides; and fuch a One, comeing into a human Body, already labouring under the ill Effects of too great Emotion and Action, can never do other than Harm there. Acids are of a Constitution directly contrary to Camphore; and it must be allowed that the putting Bodyes of fo perfectly different the position of the

P. 130.

different a Nature together, is somewhat strange. To frame a complete Judgement of them, when thus mix'd, and in Conjunction, is not easy: or indeed possible; unless the Propertyes of Camphore were better known than perhaps, in a Body of so fugitive and intractable a Nature, they will ever be: and unless he had stated and defined the Doses and Proportions of each; which he has not done. But he feems to imply that the Fluids, + vid. he gave the Acids in, were in large Loc.p 118. Quantity. In that Case, whether supra. he used small Beer, Barley-Water, fome kind of Apozem, or whatever elfe, the Camphore and Acids would be diluted, drowned, and have little Effect, unless given in very great Doses indeed. Any of those Fluids, would take up fuch Biliofe Salts as they light upon: and thefe, with the Acids and Camphore, would contribute to the Attenuateing of the putrid Phlegm, one great Cause of the present Disorders: and to the Swilling it, in fo extraordinary a Quantity, into the Blood, as indeed to dilute and difappoint

appoint the Salts, that, wounding the Vessels, caused the Bleeding; but, at the same Time, to overwhelm the Frame, charge the Capillary Vessels, the Glandules, and finer Organs with the putrid Phlegm, fo as to quite stifle the Powers of the Body, and confound the OEconomy. This is not a Thing done in an Instant; but, being given thus twice a Day, Dose after Dose, and by Degrees, 'tis easy for One, who is rightly apprized of the Mechanism of the Body, and the Circumstances that 'tis put under here, and is likewise capable of Judging, to foresee the Consequence of these Things: and that it must be the very fame that this famous Practitioner, found constantly ensued. Not but that there are likewise other Things to be consider'd in this Administration; especially the Quenching the Fever, and Depressing that Flame, without the Assistance of which the peccant Matter cannot be cast forth, the Body be animated and invigorated, or Nature difingaged of what oppresses and confounds Her. If, by.

by these Remarks, I have given any Light to this Affair, contributed to the Rescue of those who fall into these unfortunate Circumstances, merited the Thanks of the Author of this Method, and brought him to due Suspicion of it, I have my Aim. I shall now further proceed to submitt to his Consideration one quite different, and indeed diametricaly opposite; which, if, with due Attention, it do not ever, may yet generaly fucceed: Life be fayed, and Death not thus constantly in the End close the Scene. In Order to this I would recommend Oily and unctuous Medicines. As Camphore, and Vitriol, are unnatural, strange to the Body: and indeed, as far as they can be brought to any Test, appear to be nearly ally'd to Poysons; so these unclu. ous Medicines are realy Antidotes, beneficent, amicable to the Body, and of the Nature of Nourishment. They disarm the Principles that cause the Bleeding: take up the Vitriolic, and other noxious Salts: baffle their Conflicts and Emotions: Supple the Gutts and Paffages, rendring

dring them flippery: and disposing the vitious Matter in them to defcend, and go out of the Body. That likewise may be assisted, and furthered, by a proper carminative Clyster; which, by fetching off Wind, and removeing the Obstacles of the Passage downwards, may ferve to turn the Current of the vitious Salts from off the Lacteals, the Blood, and the Kidneys, where they must needs be injurious: and to dispatch them, the natural and right Way, out of the Body. which may, by a difcreet and vigilant Physician, be done with great Gentleness: and by such Degrees and Measures, as he thinks fit. Tis not needful that I recapitulate: or bring together and compare the two Methods. 'Tis evident, at first View, that, in One, the Medicines are natural: in the other, quite contrary to Nature. In One, the Medicines exasperate: in the Other, they appeare. In One, the Medicines turn the noxious Matter into the Blood, and upon the Habit, nay upon the very Parts that fuffer and are endanger'd: in the other, they

they turn them quite off, and steer them directly out of the Body. Even the common Mucilaginous Medicines take up the Salts, defend the Membranes, lubricate the Paffages, and fucceed happyly. Of which I had Instance in Mr. W. Watlington's, Mrs. Kath. Long's, and some other Cases, that I hope will one Day see the Light. Nor indeed have I ever judged this Symptom of either great Danger, or difficult Treatment: or known any one fingle Patient miscarry under it: nay not one that is not at this Hour alive and well. Which is a Thing that may not be wholey unworthy the Consideration of this Gentleman, or Others, if there be any besides him, who give Camphore and Acids.

XXX. I proceed to consider the Of Letother Remedyes made Use of in Blood. Emergencyes of the 4th Stadium: and that which I shall next mention is the now so common, but which, Resecting on Nature, and the Reason of Things, I have, I confess, ever judg'd, generaly, a wrong Practise, I mean Letting Blood. 'Tis

indeed

indeed certain that, by the drawing off Part, the rest having then more Room and Scope to range and circulate about in, some of the Diforders of the Habit, that proceed from Overcharge and Croud, there, become, for the present, less: But, if the Store of vitious Principles in the Stomach be not, before, near drained forth, those Diforders must, and are actualy wont to recurr; a new Supply of those Principles being, of course, sent, from the Stomach, into the Blood-Veffels, in Lieu of the Blood lett out f. Which furely must be thought a Change much for the worfe; Part of the

† They who are lavish of the Blood, and let it out on every flight Occasion, have but too freemaly of she Drop-quent Instances of such Dispatches, from the Stofy: and of mach to the Blood, in Persons subject to Indigethe Afth- Hion, and who have much Phlegm in the Stomach and Guts. For, in them, Swellings ordi-203 a. naryly arise after the taking away of Blood: and they are of such a Nature as to shew plainly they proceed from Phlegm, thus transferred into it; which, being crass, inactive, ponderous, and vifcous, is apt to flop and settle in the small Capillary Vessels, especially those near the Surface, and at Distance from the Action and Power of the Heart. This, beyond all other Parts, is the Cafe of the Feet and Leggs: and besides, when the Body is erect, the Ascent, of the Phlegm, being in a Course directly counter to that to which it is determined

the Blood, that alone sustains the Life and Strength, being drawn forth: and a Matter, so injurious to both, substituted in the Stead of it. Upon which, Inconveniencies, commonly very great, and sometimes such as are never to be remedyed, are wont to insue. Nor, till that Matter be removed out of the Sto-

termined by its Gravity, is thereby still more impeded. Which is the Cause that these Swellings are most commonly in the Feet and Leggs. That Impediment ceases when the Body is in a recumbent Posture. For which Reason those Swellings, abate then: and sometimes go quite down for the Time. Where this Phlegm happens to be in very considerable Quantity, when returned back, out of the Leggs, into it, the Stomach becomes loaded and uneasy: and, by its being thus charged, and likewise inflated by the Fumes of the Biliose Salts that ordinaryly more or less attend, it straitens the Thorax, oppresses the Breast, and so shortens the Breath. Which Symptoms relax upon the Descent of the Phlegm again into the Leggs. This I choose to note as it affords one great Inflance of the Communication and Intercourse betwixt the Blood-Where the Phlegm, † Conf. 6 Vessels and the Stomach +. thus impacted in the Vessels, is thick stiff and tenaci- 56. infra. ous, it renders the Part swell'd liable to pitt, and to retain such Impressions as happen to be made 84 pon 8t. By its sometimes totaly obstructing many of the Vessels, Passage is deny'd to the thinner serous or watery Humors. when sharpen'd by some Admixture of Salts, bappening to fret, break the Vessels, and flow forth, have been most taken Notice of: and so gave Denomination to this Difease; the Word, Hydrops, implying Water. mach

mach, and due Care taken of that Organ: till the Appetite be restored, proper Aliment supplyed, and a right Digestion re-established, can any new Blood be advanced. Of which, Confideration ought to be had, if the remaining Stock be not fufficient to answer the Exigencyes of Nature in the mean Time, and till a new Recruit can be obtained. For, without that, the Powers of the Body must needs fail: and Nature be foon at a Stand.

Of 0-

XXXI. Some rely much on Opiate Me- piates, in this Stadium: and 'tis certain they are sometimes of Use. As the Colluctations of the vitiated Bile must needs irritate the Stomach, fo the Fibres, of this Organ, irritated, twitching, and struggling, must reciprocaly agitate, and promote the Emotions of the Bile. They who are apprized of the Manner of these Operations, and have duely attended to them, know that Opium, if the Bile be not in fuch Quantity as to overpower and fubdue it, stuns and diminishes the Sense of those Fibres, and puts an End to their Struggles: and fo confequently lessens the Emotions of

of the Bile, and other vitious Principles, there. Dureing this, the Dispatches of these into the Blood, are, if not wholey suspended, so much lessened, that the Blood-Vesfels and Organs get a Truce, and Release from the before so continual a Charge upon them, wherein to unburthen and difengage themfelves, by Way of the Pustules, the Kidneys, and ordinary Emunctoryes, of what has been fo incommodeing to them. Upon which 'tis hardly credible how great a Change generaly enfues. The Bile being so restrained in the Stomach, the Symptoms of the Habit lessen, and the Fever remitts. The Heat becomes more mild. The Pain. Soreness, and even the Inflammation and Ruddyness of the Skin, abate very fensibly. If, by this Means, the Principles in the Stomach can be, at proper Intervalls, bridled, and kept quiet, while the Habit and Organs are thus freed, 'twill be very happy. For, thô no Physician ought to trifle and lose Time, or to rely upon these, unless he have Incouragement from

vacuati-

proposed

by Dr.

Freind.

ons.

the Symptoms, and a rational Prospect of gaineing his Point this Way; for by fuch Loss of Time he fuffers the Life of the Patient to be brought into Danger, if not cast away; yet every wife Phyfician, that has due Humanity, will not unnecessarily go to storm a Distemper, and make Evacuations in a Body that hath been fo long harrass'd: and is thereby so much reduced and distressed. 'Tis very wrong to have Recourse to them, where the End can be attained by milder Treatment: and the Body gain a Truce, to difengage itself, and recover Strength; after which,

t conf. 6 Evacuations may be made more fuc-

55. infra. cessfully and happyly to

XXXII. But, where all other Means fail, and the Symptoms will not strike to other Remedyes, an Effort must be made for faving of Life: and Recourse had to Evacuations. The Enemy that cannot be pacify'd and governed, while within, must, if possible, be cast and in this out. The Question is, what E-Stadium vacuations are proper. Dr. Freind. and the other Gentlemen in Con-

fort

fort with him, propose a Method of Purgeing. They will have it The that this Method is pointed out by Diar-Nature; because of the Diarrhæa, which which befalls some few in the fometimes Small-Pox. That indeed is an In- urged as dication of remaining Load: and an Indication of Nathat Nature is yet overcharged with ture for Something which is annoying, and that, but which she would get rid of. But the ly; it be-Thing to be inquired into is whether ing only that, which she happens sometimes simply an Indication to take, be allwayes the proper of Load. Courfe, and to be followed. In this Stadium, that at Top haveing turning been successively removed, the Mat-downter at the Bottom of the Stomach wards by comes next to rife, and flow over: dangeand this, being more vitiated *, and rous. noxious, and consequently ever at- 98.99. tended with greater Danger, the 10. Su-Hurrying it down into the Guts, praand the Passages into the Blood, in great Quantity, must needs hazard the Frame: and fet Life hard; especially as Things now finaly happen to be, the Body already overcharged, and the Organs languid, feeble, and near tired out. Those are very supine, inadver- Nature tent, is not ever to be imitated.

tent, and know little of these Things, who fancy Nature, or the Mechanism of the Body, acts constantly so steadily and rightly, that it is never put out of its Way +: but may be allways fafely and fitly imitated, or the Action perfued. There are indeed Crifes, and Efforts of Nature, that happen to be falutary. But then there are others that prove fatal. She frequently Instances in ber casts noxious and morbid Matter upon an Organ in fuch Quantity as to Matter on bring on, not only a Tumor, or an Abscess, but an Inflammation: nay a Sphacelus, and Mortification of the Part: and confequently the Destruction of the Whole, in Case that happen to be a principal Organ, and its Action and Concurrence necessary to the Subsistence of the Whole. So there is commonly an unequal Distribution * of the Blood: and a Quantity, cast on one Part, fo great as to overpower

and in Hamorthages.

Cafting

vitious

a Part:

[†] Did not Nature sometimes err, and act wrongly, there would be no Monsters, Deformities, or other like apparent Evidences of her Error * Conf. p. 3, 4. 17. & Segg. 27. Supra.

it, probably to break the Veffels, and lett forth fo much of it, that Life is brought into immediate Danger. As in an Hæmorrhage of the Nose: Spitting, or Vomiting of Blood. The common Practife, Phle-botomy, of those who fancy they imitate on this Nature, is, on fuch Occasions, to Occasion, take away more Blood; even thô censured. the Body be languishing, spent, and the Powers of it near faileing, on account of the Loss sustained already. 'Twere undoubtedly more rational to turn off the Caufe of that unequal Distribution; but to be frugal of, and fave the Blood, that is left, and fo necessary, as well as so much wanted, for Support of Life: and that may be long enough before, if ever, it be renewed, or a Quantity of genuine good Blood supplyed; where the Organs are debilitated, and impaired, to the Degree that they commonly are in these Cases. So that, if Life be not lost, the Constitution is, by this Method, frequently shattered and spoyled: and Life rendred afterwards fo comfortless, and so distressed, that Death were more desirable. As a too K 3 great

great Crowd of Blood bursts, so where it happens to be overcharged with Salts and Acrimonious Parts, they wound and lacerate the finer and more tender Vessels, and lett the Blood out. Thus it ordinarily happens where the Urine is rendred Bloody. In which Cafe likewife there are those who lett Blood. Where that Symptom happens with the Small-Pox, One of the Phyficians of this Confult found that Practife constantly fatal *. That furely should be an Argument sufficient against it. But the Practise had been more extravagant had it been to imitate Nature, or produce an Hæmorrhage by Way of the Kidneys. Which yet is much like what they do, who, on Account of the Loofeness, that sometimes happens in the Small-Pox, produce one by their Purges. Besides, there will be the less Reason for that Practife, if it be confidered Pox, only that the Diarrhæa is far from attending the Small-Pox constantly: and indeed not a legitimate Symptom of this Disease. Of the Cases recited by these Gentlemen there is

* Comm. P. 115. v. Loc.p 116. Jupra.

A Diarrhaa.

in the

Small-

Acciden-

tal.

not

not one in which a Loofeness happened unless it were brought on by their Practife, excepting only that p. 126. In which Case, by The a Composition, very common indeed, curbing of but very unaccountable, Rheubarb rous. and Diascordium, 'twas indeavoured to lessen and restrain the Diarrhæa; an Enterprize mighty strange; there being as little Reafon, or Countenance from Nature, for stopping a Diarrhæa, when once raifed, as for raifeing one, when the Bowells discover no Disposition or Tendency that Way. For, when once the Morbid Matter is roused, and cast into the Guts; to hinder its passing, thorow them, directly out of the Body, is the fure Way to turn it into the Blood; than which Nothing can be of greater Injury or Danger. Nor ought it to be passed over, that there hap-arrhea in pens a Diarrhæa near the Begin-the 4th Stadium, ning, in the 1st or 2d Stadium, of whether this Disease, perhaps almost as of-more an Indicaten as in the 4th Stadium. Now tion, for if the Diarrhæa, in this last, be Purgeing. construed an Indication for Purge- in the 1st ing, they had done well to have or 2d. affign'd K4

assign'd their Reasons why that of

Tendency of Things, in the Small-Pox, upwards. Natural and kind 410

the Ist or 2d should not be so too; for that, as far as I can perceive, none of these Gentlemen pre-Indeed the genuine Bent and Determination of Nature is the quite contrary Way. The Body is commonly stopped downwards, and bound, for the whole Courfe of the Small-Pox, where the Difease proceeds rightly and kindly: and the Flux and Tendency of Things is upwards. Even in this 4th Stadium, where the vitious Principles in the Stomach chance to be in fuch Quantity as not to be exhausted before, there happens ordinarily a Nausea, a Reaching, and fometimes a Pukeing: the Glands of the Throat and Mouth unload themselves in a Salivation: and the Head and Face frequently continue swelled. If Things chance arrhaa, or to steer a contrary Course, the Symptoms, abovemention'd, recede. Nature is under Force, put to her Shifts, and quite out of her Road. Being, by the Load there, the Im-

becillity of the Stomach, and the

Reluctance of the Organs, hindred:

Lightening and the firm in,

and

Lendency downwards very bazardous.

and her Disposition, to cast the Enemy upwards, frustrated, she takes the only other Course left, for the present saveing of Life: and casts it down. But, where a Diarrhæa comes thus on, all intelligent Physicians judge it ominous. The Symptoms that attend it are shocking: and the Consequence, too frequently, satal. So that One might surely well think it a marvellous Enterprize to attempt any Thing in Imitation of this, commonly, so tragical an Accident.

fhall be rightly considered, and the not in the Mechanism of the Body set in a counterproper Light, can any One be reananced by sonably surprized at so terrible a or the Resolution of the Diarrhæa. Tis true, Mechanism of both by that, and by Purgeing, the Body, much of the vitious Matter, that is the very Cause of the Disease, may be thrown out of the Body. But, whoever shall attempt the Thing in that Way, I will take the Liberty to tell Him,

Periculosa plenum Opus Alea Tractas, & incedis per Ignes Suppositos Cineri doloso †,

tis Oder. L.2.

'tis like rouseing a sleeping Lyon: and that Matter, being thinned, incited, and poured out of the Stomach into the Guts at once, paffing the whole length of them, and presenting it self to the Orifices of all the Lacteals, a Quantity of it, as much greater than before as the Charge on the Guts is now greater, must enter the Lacteals, and pass into the Blood. Now, if the Matter, thus getting into the Blood, chance to be in such Quantity as to overpower the Organs, impede the Action of the Parts, and so oversett the Frame, the Purgeing had been much better omitted: and I can hardly be ever brought to believe that the small Hopes of Benefit, by the Discharge the other Way, can posfibly near balance the Danger in this.

Purgeing XXXIV. 'Tis certain the Sympincreases toms of the Habit, and particularly
the Symp
toms: and the Fever, is ever increased by the
particu- ordinary Methods of Purgeing. Dr.
larly the Freind + himself, on another Occat P. 145 sion acknowledges that Purges ' ac146.

celerate

^{*} P. 145. I know this learned Gentleman * makes a Di-169. finetion

celerate and beighten the Pulse: increase the Heat, and consequently the Fever. Which renders it a still greater Paradox; because he urges the Fever as an Argument for Purgeing +. Now, for the Fe- + comm: ver to indicate an Operation, that 1:75. 80 he owns frequently, if not constantly, Si. &c. increases the Fever, is somewhat extraordinary. On the contrary, that Effect has been one, and I think a very good Reason, why former Physicians have so cautiously avoided that Operation. Nay, Aftrinfome there are, and those of no gents low Rank, who are fo apprehensive of improper Small-

stinction betwint those Purges that only irritate pox. the Guts, and those that likewise increase the Velocity of the Blood. I believe 'twill be bard for him to assign any, as commonly used, that do not, where there happens to be numerous biliofe Salts, and febrile Matter in the Stomach, rouse, and caft them thence into the Blood: and so cause febrile Affections there. At least he can never be certain, that any of the common Purges, may not bave that Effect. So that where the Habit has already so great a Charge upon it, to give what may augment that, cannot be proper, or safe. He allows * that the stronger Purges ever increase * Comm. the Velocity of the Blood: and due Attention P. 145. to their Operation will soon convince any one that the slighter and gentler do that in a more eminent manner, so as to cause greater Disorders there. Conf. 9 36. infra. Et Hippoer. mei pagu. 4.

any Tendency of Things downwards, that they give, if not thorow the whole Course of the Small-Pox, as long as the Patient lives and holds out, Sanguis Draconis, Terra Japonica, Bolus Armena, and other Aftringents. That shews sufficiently how ill a Notion they have of any Purgeing, or a Loofeness: and how studiously they indeavour to prevent it. However, theirs is an Error of the other Hand : and this Practife is very wrong. For Astringents, especially if strong, and given in too great Dofe, abforb, fmother, and captivate Things in the Stomach, fo as to diffurb the Procedure there, impede the Paffage into the Blood, hinder the Small-Pox from comeing kindly out, and the Pustules from Filling. The vitious Principles, thus restrained in the Stomach, are not idle: but very mischievous there. They annoy, oppress, and incommode that Organ it felf: and also infest the Breast, Præcordia, and Parts above, quite up to the Brain *; proveing by that means frequently fatal. Of all which I had a while ago a plain

* Conf p.3,4,17, \$ 27. Su pra.

Instance, being call'd into Confultation, at the Closure of the Scene, in the Practife of a Physician of real Merit, very careful, and judgeing generaly very rightly; thô, terrifyed by the Ills he had observed on one extreme, in this Cafe, he runs fo unhappyly into the other. This is written, as in Caution to others, who use that Method, so in pure good Will to him: and, when this, shall come to his Notice, I perfuade my felf, a Gentleman of his good Disposition will not fail to make a right Use of it. But, to return to the Confideration of Purgeing; even Hippocrates, the Author on whom Dr. Freind has made these Commentaryes, declares expresly against it. 'Tis true the Small-Pox were Of the not known in those early Times. of the The Principles, from which they pro-Smallceed, were the Product of the Glut-fome otony of later Ages. The Greeks ther Difand Romans indeed had their Re-eases of these later vels, Feasts, and Entertainments, Ages; possibly greater than ours : but not with the near fo frequent. Then, in the Causes of Intervalls, they were very Abstemi-

ous, and their Diet simple, and mean. Besides that their common Drink was chiefly Water. So that Nature had Time to cast off the Charge again: and the Organs to recover themselves. Whereas the later Ages fell into a continued Course of Gluttony: and had two or three large fett Meals, ordinarily with great Quantityes of Flesh, every Day. This brought on that standing Fund of Indigestion, and Load: and, in Time, of a Putrefaction consequent thereunto; to which the Small-Pox, and fome other Difeases, now not less frequent than terrible, owe entirely their Rife,

Purge. and Fuel. But, thô Hippocrates had ing in Fe- never seen the Small-Pox, no Man vers contrary to ever better understood a Fever.
the Judg. Now, he afferts directly that there
ment of Hippotrates. Purges to those that are seiz'd with

bigh Fevers +, fuch as this second Fe-

[†] Όκοσοι μέν οὖν ἀπο πυρετῶν ἰσχυρῶν λαμβάνονται, ε χεὰ τετοισι φάρμανα διδοναι καθαρτήρια, ἐς τ' ἀν μεθὰ ὁ πυρετὸς; εἰ ἢ μὰ, μὰ ἐντὸς τεσσάρων χζ δίκα ἡμερῶν. Πυρετὸς γίνεται πλέων — κινεθείσης χὸ τῆς χολῆς, κὶ μὰ καθαρθείσης. — Ως τὰ πολλά ἀπόλλυται. Περί φαρμάκ δεςτ. 4. Confer. etiam Sect. 5. uti & Ἐπίδημ. V. 25.

ver in the Confluent Small-Pox affuredly is until the Fever remitts: or at least, not within 14 Days. For the Fever is increased, the Bile being put into Emotion, by the Purge, and not carryed out: and feveral very ill Symptoms arise. Nay he averrs, that this Practife terminates generaly in the Death * of the Patient. This, comeing from a Man of the great Experience of Hippocrates, of fo much Exactness in making Obfervations, and Faithfulness in relateing them, should furely have been a Warning, and Barr to this Practife. Nor can I, I confess, help being somewhat surprized that this learned and ingenious Commentator upon him, should intimate ' Commithat Hippocrates gives the least P. 75. Countenance to it: and should found his feventh Commentary upon that, without produceing fo much as one fingle Instance to this Purpose out of him. can I possibly bring my self to Dr. Freind's Opinion that Dr. Sydenbam was not sufficiently bold in his Administration of Purges, up-

* Conf. Emsnu. V. 9, 10.

Non fatis audax fuerit. Comment. P. 90.

142. [11-

pra.

P. 87.

on the Emergence mention'd, in the 4th Stadium of the Small-Pox. For he judges rightly that the Method was dangerous: and therefore, not to be used till other Means failed, and the Life of the Patient was despaired of . Nay, he was apprehensive that his very Mentioning of Purgeing might be the means of far more Hurt than Good; and therefore he puts in a Caution that it should not be used, till, as Hippocrates + advises, the Difease † Conf. p. was in Declension | Indeed, upon the whole, I am not able to find out why they " will have Dr. Syden-*Comm. bam to be a Patron and Voucher of this Practife. Not that it would be material, if he was. 'Tis not any Man's Example, but Reason, Nature, and the right Success of Things, by which we are to be

> * Ut jam de Ægro pane conclamatum videatur, duro buic Nodo durus Cuneus aptandus eft. Sydenham. Sched. Monitor. p. 97.

> guided. Nay the Passage brought

Ne injecta ejus Rei Mentio longe plus Damni quam Emolumenti apportet, agrum non esse purgandum, nift facessente jam Morbo, &c. Ibid. 1. 99.

out of Rhazes † is not very clear † Com. in as to his Authority: and till it be Hippoer. certain that that of Dr. Radcliff * Ibid. p. was more than Talk, I think these 87. Gentlemen have themselves the fairest Title, and are wholey without Competitors for the Honour of this Method.

XXXV. The Affair ought not of the to be dismiss'd without some Con-Purges fideration of the Sort, and Nature, choice of of the Purges that these Gentle-by Dr. men make choice of. No Work and the will ever be artfully performed rest. where the Instruments used are not proper: and, in a Work of the Nicety and Importance of this, too great Care cannot be taken. Now, were it not for the Regard I have for these Gentlemen, I should not, I confess, allow the least Claim to any Aloetick, or other hot bitter Medicines: nor indeed to the Sal Mirabile Glauberi, or any other Salts; fuch Bitters, and Salts, being Ingredients of the Bile: and the chief and most active of the very Principles that bring on the greatest Distress and Danger in this Difease. Which, of many that might

† Conf.p. 38, E Segg. Su pra.

alledg'd, may serve for an Instance of the Necessity of finding out the Causes + of Diseases. Nor, till that be done, can any Man give a Medicine with Reason, or indeed with Safety to the Patient. where the Stomach is so easily offended, and will bear little, Medicines that are gross, and that answer not the Design unless given in great Quantity, fuch as Cassia, Manna, and Lenitive Electuary, cannot certainly be over fuitable.

Of the Doses of them: and of gentle Of the Forms of the Purges used by these Gentlemen.

+ Cont. Comm. p. 122.

XXXVI. Is true these Gentlemen give little Doses of them; where, by, in my Opinion, they double the Purgeing. Error. To rouse, exasperate, and provoke an Enemy, without effectually fubdueing, casting him forth, and putting it out of his Power to do Harme, must needs be imprudent, and a great Overfight. know very well the Expression of gentle Medicines, gentle Purgeing +, and the like, so frequently in some People's Mouths, passes very glib, and founds well: and 'tis certain that the first and greatest Care of every Physician ought to be that his Operations be safe and benign; but

but that they be so likewise in their Consequences and Effects. For, without that, the rest is mere Amusement: and only doing Nothing, or Mischief; which is the Case of all Purges that are flack, trifleing, and impotent*. This is not the Place, nor indeed have I Words 159. info to fett forth the many great Inconveniencyes, and Diforders, even the Spoyling the best of Constitutions, that have, not immediately perhaps, but by little and little, and in Tract of Time, followed on this Practife. With what Title foever the Medicine may be graced, fuch Operations, and Effects, cannot be said to be gentle: and 'tis strange, to confider how much People are ordinaryly bewildred, and how eafily led, by specious Words, into the greatest and most unfortunate Errors. The observeing of the ill Effects of these Operations I take to be the main Reason why fome are so apprehensive of Purgeing. For flight Purges, not well and quickly passing the Stomach, excite the greatest Emotions and Perturbations in it. Then they either

either do not carry the Matter,

which they fend thence into the Gutts, thorough them, and quite out: or they do it fo flowly, that there is too great Leifure allowed for it to pass the Lacteals; whereby the Blood is charged, infected, Evils brought upon the Frame, and Injuryes without Number or End. Besides, there are Forms of Medicines highly improper; fuch as Pills; which are frequently too hard for the Stomach to dissolve, when under the great Indisposition and Trouble that it is in this Difease. Nor can I properly forbear taking Notice that, in this very Commentary, Pil. Ruffi 3fs, prefcribed by one of these Gentle-# P. 123. men +, produced no Stool, till inforced, ten Hours after, with Lenitive Electuary 3vi: and the Affair had finaly an Exit, that I am not inclinable to inquire over fcrupuloufly into. Thus likewife that small Dose of Rhubarb, gr. xii: * P. 132. given to the Boy *, feems, as might well be expected, to have been as flack in its Operation. The eight Grains of Calomel, with 3ss of Lenitive

tive Electuary | worked not at all. | P. 95, Perhaps Dr. Freind would have given 96. a larger Dose, had the Thing been under his sole Conduct. But there were joyned with him two other Physicians who were reluctant: and under great Suspicions of Purgeing in the Small-Pox. on the whole, I believe every reafonable Man will agree with me, that they, who undertake in any Case to Purge, ought realy to do that, or to let it alone: to give Medicines that will pass, and go thorough the Body, or none at all. In Order to which, and to their Operateing fafely and kindly, to be fure there ought to be fuch a Predisposition of Things that they may pass easily and freely; least, by a fancyfull Essay to carry the peccant Matter out of the Body, it be realy carryed further into it, and cast upon those Organs and Parts where it may do irreparable Damage. To which may very fitly be further added, that Hippo-t Teel crates t, the Author that Dr. Freind oaquanor, fo much celebrates, averrs that Pur-Sect. 4, Conf. ges, which work flackly, or not'Emsyn. at L. 5. 510. L 3

at all: and putt the Bile into Commotion, without carrying it quite out, are attended with ill, and indeed the worst of Consequences. If the Judgement of the Patient be taken, he will as furely be rendred chagrin, cloudy, faint, and greatly disordered, during the Operation of a flack and impotent Purge: as he will be chearfull, serene, sprightly, and eafy, under the Operation of One that is brisk and free. Then the Effects that follow on the former are as difastrous, as those on the latter are ordinaryly good. This is fo certainly Fact, and fo commonly to be observed, that it cannot well be a Secret to any, but those who give only trifleing Purges.

Occasi-Confultations of Phyficians. Conf. D. 154. infra.

XXXVII. But we shall be betonaly, of ter inabled to form a Judgement of this whole Affair, if we examin a little the Accounts, that these Gentlemen have published, of the Success of the Purges given here in their own Practife. I shall begin with the Confultation which Dr. Freind has here fet forth a Relation of: and which well merits

Glass Harm Tall

the Attention of all those who are fond of Confultations. 'Twere to be wished that the Designs, the Interests, and the Accomplishments of all Phylicians were the fame: and perfectly right. But they are Men: and fubject to the Overfights, and Passions, that other Men are. Befides, their Views, their Conduct in their Studyes and in their Reasonings, are so very different, that a Man may as well expect a compleat Picture from the united Labours of a Painter who uses Nothing but Crayons, and another who can only paint in Oyl, as the Cure of a Difeafe from two Physicians, whose Methods of Thought, and of Practife, are perhaps more different. Nor can there be ever the least Profpect of other, fo long as Any, leaveing the Paths of Nature, have Recourse meerly to Authority; instead of Searching out the Causes of Difeases, the mechanical and proper Remedyes of them: and fo Reduceing Physick into the Form of an Art. In this particular Confultation, Dr. Freind was indeed putquiry into out of his Method as to Medi-the Suc-1 4 cines;

Purges u sed in the Cases set forth by Dr. Freind, and the reft. Reafons arifeing thence for Reject ing their Method. Of the first Cafe related by Dr. Freind.

cess of the cines; but he treats the Affair, every where with fo much Wit and Eloquence, that, had Difeafes been capable of being cured by Oratory, without Remedyes +, the Patient had been in a fair Way of Recovery. Thô, notwithstanding all that Eloquence, the Arguments, for and against Purgeing, are managed with that Equality, that had I had the Honour to have been Moderator, I should have been perplex'd, more than ever in my Life, to find out on which Side rightly to have determined the Matter; I mean proceeding on the Foundation that Things stood there amongst them. Only, I confess, where Dr. Freind's two Opponents fo expressly declare that they had tryed that Method of Purgeing, continualy without good Effect |, I should as frankly have decided against their ever Purgeing more, as against the giveing Camphore and Acids, in Cafe of Bloody Water in the Small-Pox,

[†] Itaque Ingenium & Facundiam vincere: Morbos autem non Eloquentia, sed Remediis cagari. Cellus, in Præfat. H Comment. P. 81.

when the Patients fo certainly and constantly died after it +. Thet Comme. Purge that was first agreed upon, P. 115. after long Tuggings, and numerous Disputations, in this Consultation, was Sal mirab. Glauberi 3i. DecoEt. Sennæ Gereon. ziv. & Aq. Cinamomi Hord. 3vi. There cannot possibly be any Doubt, but, on the Comeing of a Medicine, of fo peculiar a Composition, and made into fo very large a Draught, into the Stomach, the Manner of the Action of the Principles there would be changed; which must needs, as it did, produce a Change in the Symptoms: and, besides the Perturbations that must attend it, the fo great an Evacuation, as this Purge actually made, must produce a no less Change in the Animal OEconomy. But was this of any real Advantage to the Patient? The very next Day they found all Things had taken a Turn, and were altered, much for the worse: and the Fever particularly was become more vehement than ever *. Info-

much

^{*}Feb. 18. Omnia in deterius ibant. Febrisque prafertim acrius exarsit.--Vesperi, cum ultra Spem adbuc Vitam traberet, &c. P. 84.

much that, when, returning in the Evening, they found him then alive, 'twas what they had no Hopes of. Where Dr. Freind is describeing the State of the Fever, this Day, acrius exarsit, is, I persuade my self, a most accurate Expression: and justly fetts forth the Effect of a Medicine of fo great Acrimony, and fo ardent, as the Sal Mirabile Glauberi is. Nor am I forward to beleive that this was a Medicine of Dr. Freind's Proposeing. Where three Phylicians are joyn'd in Confultation, I wish I could fay it were common to have amongst them a Harmony fo thorow that a Compofition was, ordinarily, pitch'd upon, in which any one of them was perfectly fatisfyed and eafy. I shall rejoyce that this Remark have it's proper End: and the good Effect for which it is defigned. They who rightly attend to Dr. Freind's Account of this Confultation will be far from judging fuch Cautions, as this here put in, wholey needless. But, to proceed with the Confideration of the Success of this Method of Purgeing; I cannot but own

own he must be a great deal more adventurous than I, who, after a Change fo much to the Difadvantage of the Patient, should ever think of persisting in that Method. But yet, Feb. 21st, with eight Grains of Calomel, 3ss of Lenitive Electuary was given, without produceing one Stool +; which is not + Comm. greatly to be wonder'd at in fo P. 96. flight a Dose. In the Evening a Clyster was injected: but made. little Discharge. He had a very restless Night after it: his Head was much diffurb'd: and he appeared to be at the Point of Death. The next Night, the same Things, being repeated, were follow'd by three Stools: and, the Morning after, the Symptoms of the Head and Nerves were ceas'd. But, how much foever this might be construed in Favor of the Operation, by those who are fond of it, his Pulse was feeble, his Strength exhausted: and the next Day he dyed. I shall be far from suggesting that this might not have been the Issue, whatever Medicines had been given: of what kind foever

the Purges had been: and whatever the Dose. But I think it may very modestly be said that there can be Nothing collected, from the Success here, in Favour of the Purgeing Method.

Of Browne's Cafe.

XXXVIII. The next Case is that of---Browne, P. 98: and, with the greatest Respect to Dr. Freind, I intreat him to take Notice that after the xvi Grains of Extr. Rudii, given to this Patient, the Delirium and Convulsions continued as high as ever the Insomuch that the Dr.

† Comm. P. 100.

as ever +. Infomuch that the Dr. thought it needfull to apply Blisters: and direct a quieting Draught, Notwithstanding which, those Symptoms kept their Ground; and continued in full Force the next Morning. I confess, I could not, after that, have imagined, if it was judged reasonable to persist in Purgeing, and to make choice of a Medicine fo flow in Operation, thô fo bulky, as Lenitive Electuary, for the Purpose, so small a Dose, as 3fs, should have been directed: any more than I could be furprized that, the very fame Evening, the Fever, and all the other ill Symptoms, should

should be, as they were, after the takeing of it, increased . Info- * Comma much that the Dr. thought it need-p. 100. full here again to apply more Blisters. But, after some Time, in the Night, the Powers of the Body ', thus doubly incited, exerting themfelves at once, rose upon the Enemy, with fuch Effort as to fling forth near 30 Stools in 4 Days. the Quantity of the Matter, thus discharged, and the odious putrid Constitution of it ||, be rightly re- || thid. flected on, 'twill foon appear how p.100. hazardous it must needs be to rouse and stirr fuch, without takeing great Care that it steer the right Course, and be speedily and effectualy cast quite out of the Body. Of which yet no Man can ever be absolutely This is manifest, 'twas certain. to the fo great Quantity discharged, that the Recovery of the Patient was owing. Which may ferve for an Intimation, from Nature, what is realy to be done if this Method be perfued rightly.

SHOULD

XXXIX. F

Being vigorous in a Young Man, as, tho his Age be not mentioned, from the Event I collect this was.

Dr. the other Accounts and detective.

XXXIX. I come now to the Accounts of the other Gentlemen in full: but this Confort: and could have wish'd theirs had been as full, and distinct, perplexed as Dr. Freind's are. For, then, equal and indifferent Lookers on would have been able to have judged, for themselves, of what now they must take on Trust, in the Lump, and on general Affertions. Not that I am going about to call in Question the Candour of the Authors; but the more distinctly and amply any Truth is delivered, the more it is to the Advantage of the Propofer, and the better Title it has to Reception. These Matters are not so much in open Light, that 'tis eafy ever to make a ready and certain Judgement of them. Where feveral Medicines are given, and an Effect produced, it is not always fo obvious and eafy to affign to which of them that Effect is owing. Had these Gentlemen been more particular in their Relation of the whole Process, their Readers might then have judged together with them: and been fatisfyed that what they afcribe to their favorite Operation.

ration, was realy its Due, and not the Right of some other Medicine given, or perhaps the Work of Nature. Not that the Perplexity, and Darkness is here such that there are not fome Threads whereby to guide our felves: and fome Sparks of Light, which, thô few, may ferve to give Infight enough into this Method. Particularly A stranger in the Case in of that Lady that had which three Crops of the Small-Pox, rifeing there were fuccessively one after another: and three fucan Exulceration continued, on all Crops of her Limbs, to fo unufualy long a the small Time as the 28th Day; infomuch + Commo that there was, indeed very just, p. 125. Caufe of Apprehension of a Gangrene. I observe a gentle Purge was given her on the 12th Day: again on the 15th: and, afterwards, at every 3 or 4 Days Distance, the Purge was repeated, to the End of the Difease. The Thing I would gladly know is, whether this Phyfician, who allows this Repullulateing of the Pustules to be very rare, can give one fingle Instance of its ever happening where there were no Medicines given. I would likewife

wise know, whether the successive Stirring of the Seminium of the Pustules in its Source, and thus slushing it thence into the Blood, and upon the Habit, by such gentle Purgeing †, did not really produce those p. 146. fuccessive Crops of Pustules: and seqq. fu- also contribute to supply, from still the same Source, continually, the

Corrofive Matter that was the Caufe of that folong continued, cruel, and dangerous Exulceration. Finaly,

* Conf. Swhether one proper Vomit*, given, 50. infra. instead of the Purge, the 12th Day,

and rightly managed, had not intercepted the Supply, in that very Source, cast it out, and so put a happy End to her Distress and Danger; preventing all those violent and terrible Symptoms that sollowed. Tis true, in this Way, she would not have had Proof that she had a Constitution so very tough firm and tight, as, in that, itis made plainly appear, and itwas indeed well for her, that she had. Hippocrates very rightly observes, that wherever Phlegm, mixt with

sharp Humors, comes forth, it fails

not to exulcerate the Parts. That

Fleet Frody. Sect. 16.

was

was truely the Case of this Lady: and if her Physician please to attend to what, in this very Work, Dr. Freind has noted, it may, 'tis to be hoped, be an Inducement to him to deliberate anew, to study, and think further of these Affairs. Dr. Freind gives an Instance * of a Hu-* commis mor, attending the Small-Pox, fo ex-P. 130. cessively sharp, as to be, of all others, the most likely to make Exulcerations of the Parts, on which Soever it happens to be cast: and that actualy erodes the Skin as if Oil of Vitriol was pour'd upon it. Then he declares & that no Medicine more powerfully turns off Humors than a Vemit. He subjoyns a very pertinent Instance of their Revulfive Power in their so frequently Subducing Pains of the Hips, and OEdematous Tumors, after other Revellent Medicines have been tryed long, and in vain. The Morbid

vertat, quam que Vomitum ciet: cujus sanè in revellendo Vis ex boc satis intelligitur, quòd scilicet Coxarum dolores, atque Oedemata, sapiùs expugnet, aliis frustra diuque tentatis revellentibus. P. 50.

Matter, in some hardy Bodyes, is, in Quantity, far more than will ever be suspected by those, who have only a fuperficial Knowledge of thefe Things: and, where 'tis thus ftirred, cultivated, and managed, the Small-Pox and other Difeases may be, not only rendred more harsh and cruel, but prolonged and fpun out much beyond what will eafyly be imagined. Nay and perhaps both the Patient, and Physician, not conscious how these Things are brought about, well pleased all the while: and in mutual Admiration 'Tis most certain, each of other. in this Method, the Patient will be made duely fensible that he has gone through real Ails: and been fick in earnest. Whereas a wife faithfull Physician, who, takeing the Caufe in the Fountain, throws it forth at once, and, by his fo nipping the Difease in the Bud, saves the Frame, comes off frequently without Praife, or perhaps any Notice at all. In this Way fo little: is felt, by the Patient, that he may be apt to think little has been When it falls out that done. the

the Body has Strength, and the Organs Power, again to free and difengage themselves of what is thus irrationaly charged in upon them: and, particularly in the Small-Pox, to fling it to the Surface, and form new Pustules, Life is thereby saved: and 'tis wonderfull to observe what a Scuffle Nature fometimes makes, in her own Defense, when thus hard press'd. Were it not for that, the necessary Consequence of this Practife is too obvious, and apparent to need Explanation. Thô they, who shall rightly consider the Affair, must allow that the Physician I am here treating with has made fo great Advances in the Art, of Repullulateing of the Small-Pox, that no Man here can ever pretend to vye with him; yet he is vastly outdone in it by a forreign Practitioner 1. For, 1 Dr. Siin the very same Way, by Means Variolis. of gentle Purges, frequently repeat-P. 201. ed 2, he kept on the Pustules, suc-tibus cacessively repullulateing, Crop after tharticis Crop, for a full Year and half 3. (blandis)
Dureing which Operation the Pati- 3 Per Sefent doubtless had a fine Time on't : quianand 'twas, according to the vulgar Intarint. M 2 Proverb, ibid.

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Proverb, Fight Dog! Fight Bear! betwixt the Physick and the Constitution; till finaly the latter luckyly got the better. Nothing ever fo thorowly disposes a Man to Humanity, and the Passing an Equitable Judgement upon Others, as the Bringing him rightly to reflect on Himself. If these plain obvious Notes have happyly that Effect on our Physician, it cannot fail to turn greatly to his Good and Advantage. Such Reflection will be fure to render him fornewhat more gentle: and place him once again on the Level with those his Contemporaryes, to whom his own Fancy has rendred him, at present, fo fevere, and fo vaftly Superior. Not that he is, to do him right, much more favourable to those who have gone before, and particularly the Physicians of the last Age; how bright foever their Character may have hitherto been, or how great their Esteem, with even the best Judges. Thus Dr. Willis, who, on account of his Searches, and profound Knowledge, in Anatomy, Pharmacy, and Physick, has stood hitherto

hitherto in the highest Rank of the Physicians of Europe, with this Gentleman is no other than a meer Utterer of Words, without any Knowledge in Physick; thô he has not been pleased to produce any Instance, or so much as one single Proof of this fo heavy a Charge. He has taken a like Liberty in his Treatment of my late dear Friend, Dr. Richard Morton, a Person of not less illustrious Merit, and One of the most eminent, learned, and experienc'd Practitioners of his Time. But, this Gentleman is pleafed to ridicule 2 his Method, and his Reasoning, about the Conflicts that he imagines happen betwixt the Animal Spirits, and the morbid Venom, in the Small-Pox; com-

* Superfuisse Authori [Willisso] Verba, defuisse Medendi Scientiam. De Imperio Solis & Lu-

næ in Corp. hum. Præf. p. 25.

pareing

Mortonus, dum in committendis cum Veneno Morbido Spiritibus Animalibus totus est, ita
calidisimis Alexipharmacis, Copiis, si Diis placet,
contra Deleterium hostem Auxiliaribus, assiduè
pugnat, ut novas in Sanguine Turbas cieat, &
accendat quam reprimere debuit Febrem; hinc
illa ipsa, quas adducit, Historia palam faciunt,
plerosque, quorum Curam habuit, Agrotos aut excalefactos interiisse, aut saltem és sia nugis, evasisse. P. 120.

pareing it, in Scorn, to the Ingagement of Armyes. Which very Way of Reasoning, notwithstanding, he has himself used. In a Style very lofty, and far from common, he tells Us of Confusion makeing the Representation of several Species to the Mind: and then proceeds to inquire what Alteration of the Body made by the Venom [of the Tarantula, for 'tis of this that he is treating,] can be the Occasion of this Disorder and Tumult in the Nervous Fluid, which excites in the Party infected such surprizeing and

of Poi-almost contradictory Representations .

fons, p.66. He talks likewise of the Fluid of

the Nerves being immediately altered

aring and irregular Motion of the Ib. p.64. Nervous Fluid; of a Hurry and Ib. p.65. Confusion of the Spirits 4: of a Se-

great deal more of like Sort. Nay,

thô he is pleased to offer these his Notions and Theoryes as new, and

the very Authors that he uses with so great Indignity, from Dr. Willis, Dr. Morton, and others.

Then

Then he takes them merely on Trust; without ever going about to advance any one Argument that there are realy Animal Spirits, or any fuch Thing as a Nervous Fluid, in the Body. Nor hath Anatomy, or any Phænomenon of Nature hitherto observed, afforded the least Reason to admitt the Existence of Either. And yet that Account which he is pleafed to ftyle Mechanical, and which, there being Nothing truly mechanical in it, he might just as properly have styled Musical, is founded chiefly upon the Supposition of both. He imploys them in every Action, and Office, of Nature. He marshals, commands, and detaches them forth upon every Alarm. Why he should not allow others, especialy those who first rais'd, and from whom he has taken them, a like Liberty, 'twill not be eafy to find out. But thô these Troops, and this his Military Discipline, be only borrowed, fuch is the Conduct here, that the original Authors are much out done. I will not be brought to believe, that Dr. M 4 Freind † Commentis

Philoso

phices,

Præf. p.

tum, &

quali

Ibid.

Comm.

p. 145,

p. 138,

339. Supra.

1 57 pra

Idel.

Freind can ever design to decry any discreet Philosophical or Medical Studyes. But, if he had this Performance in View, when he was railying of Philosophical Fancyes +, and Medical Fables : as also when he was fo much out of Humour with a Diction so impure, and such * Fabulas Monsters of Words | : all who Medicas. have read this Piece must allow Dr. Freind judges here well and right-1 Sermoly. But, to proceed with the anguina-Confideration of the Author's U-Verborum fage of that truely great Physician, Dr. Morton; Besides his Ridicule-Monstra. ing of his Method, he condemns it, in a Manner very positive; thô he alleges not any one fingle Reafon against it. He accuses Dr. Morton of raiseing, by his Medicines, new Disturbances in the Blood: and increaseing the Fever, which he ought V. Loc. to diminish ; without ever going ap. 107 su bout to propose the least Instance or Argument of either. Whereas, 'tis certain Fact, and appears from Experiment 3, that his own Method, of 3 See Dr. Freind's Purgeing, does both: and fo falls evidently under the Accufation 146. Conf. that, without Proof, he brings againit

gainst Dr. Morton's. What he next offers is, that even Dr. Morton's own Accounts, of which he hath not thought fit to produce any one, make it plain that very many of the Patients of whom he had the Care, either actualy dyed overheated by his Medicines, or escaped very narrowly, with the utmost Peril of their Lives, and fo as by Fire +; † V. Loc. being pleased to bring in the Words pra. of the Sacred Writer * into this * 1 Cor. Scene of Cenfure and Ridicule. For 3. 15. my own Part, I cannot forbear, after all, thinking it much the same Thing whether the Disturbances in the Blood, and the Increase of the Fever be caused by imaginary Alexipharmics, or by imaginary Cathartics. All the Difference will be that, in the latter Method, the Thing is done in a more evident, fudden, and violent Manner. Then, whether the Way of Excalefaction, or that of Exulceration, be preferable, is another Nicety too great for me to decide. He elsewhere passes a very hard, and indeed ill grounded Cenfure, upon the whole Faculty, I think, for he does not distinguish,

or make any Difference. He remonstrates that the + Sick were now tortured, in not only one Way: and that 'twas oftentimes uncertain which of those Tortures proceeded from the Disease it self, and which the Medicines, prescribed in an improper Manner, brought on. However that may be as to Others, I'm perfuaded all, without haveing Occasion of Looking further than to what he himself has here set forth, will agree that Things are not fo abstrufe and uncertain in this Physician's own Practife. But, to proceed; this his Treatment of the other Gentlemen of the Faculty, brings naturaly to my Remembrance a like Procedure of Thessalus, a Practitioner of Old, famous for * running down all the Doctrines that

* Thessalum—delentem cunsta Majorum placita: & rabie quadam in omnis avi Medicos perorantem. Plin. Nat. Hist. XXIX.i.

[†] Cùm non uno modo torquerentur jam Ægroti, E incertum sape esset quinam ab ipso Morbo ducerent Originem Dolores, quosve afferrent ingenta perverso more Pharmaca. De Imper. Solis E Luna. P. 59, 60.

fort of Rage, declaiming against the Physicians of all Ages. Well were it for the Memory of this Gentleman, and some Compensation for Qualityes so enormous, were there on Record some good Thing he had done: had all Antiquity transmitted to us the Memory of so much as one Medicine he had found out, one usefull Truth he had advanced, or any single Proposition of Service in humane Life.

XL. The next Case I shall take A Case Notice of is that of a Youth + of attended II Years; who happening to have with a Mortific-3 Stools, on the 9th Day, this was cation. judged an Indication for Purgeing: Comm.p. and 3i. of Rhubarb given him that very Evening; which moved him 4 Times the next Day. Being repeated on the 11th it mov'd him 5 Times, and, repeated again the 12th, 3 Times. On the 13th, the Dose, now increased to 3ss, produced 5 Stools. On the 14th he had Two. How this continual Purgation comported with him, and what Condition he was in, the Relator, here, joyn'd in Consultation with

the Gentleman last treated with, to whom he every where shews great Complaifance, leaves wholey in the Dark: and has not one Word about it. But, for the two following Days, the 15th, and 16th, he is more explicite: and declares the Patient passed them with the utmost Uneasyness, and no Sleep at all +; which 'tis mighty natural to believe was very true. The Fever, he fays, was not, with all this, in the least abated, but indeed rather increased; for the Pulse was P. 132 become higher; a Thing that happens very commonly on Purge-|| Conf. p. ing ||; especially where much of the vitiated Bile, thinned, stirred, and roused, escapes into the Blood. P. 130 This, in him, Dr. Freind compares to an Oyl of Vitriol: and very fitly; for it differs little, if at

all, from it. Certainly the great-

est Ravage, and Depredation, that is

ever made on humane Nature, is

by a Salt that all my Observations

and Experiments shew so like Vi-

triol in its Effects, and so nearly

allyed to that Acid Salt, as not to

be, by any Means, distinguished

pra.

† Comm.

p. 131.

from it. I the rather choose to note this here, that the Patrons of Acids may well weigh and confider it, before they proceed further in that Practife. As Vitriol is a very high Corrofive, and its Tendency, when redundant, and exorbitant, to the Destruction and Dissolution of the Part, wherever it happens to be fixed and lodged, no One ean well wonder that the next Day, the 17th, his Heel, at the Bottom, should be mortifyed to the very Bone, as as it feems it was. But, + neither did this so very bad an Accident deterr us, so the Relator proceeds, from our Method. For thô, if we consider the Mortification, no Method could perhaps seem more forreign than that of Purgeing, yet, when the Restauration of his Strength was put upon this, that his Body should be kept

[†] Neque Casus hic satis acerbus nos ab Instituto nostro deterruit: nam quamquam, si Sphacelum spestemus, nulla magis aliena sortasse videatur medendi Ratio, quam qua Purgatione instituitur: tamen cum Virium Redintegratio in eo jam erat sita, ut modice slueret alvus, non suit quòd, superveniente etiam Sphacelo, ab hoc Auxilit Genere desisteremus. P. 132.

moderately open, 'twas concluded, even thổ that Mortification was come on, that we should not desist or quitt this Method. That was affuredly mighty right, and but a Peice of Justice, if the Purge had before brought on the Mortification, to make it take it off again; just as one Cold is faid to drive out another. Or as the Physician, that doubtless lead and ruled in this Confultation, in a Discourse of Poifons, contends, that the Flesh and Fat of the Viper is rendred falutiferous, and an Antidote', by the very fame Means that, he elfewhere contends the Sanies of that Creature is rendred noxious, and venemous 3. So likewise he afferts 4 the Eating Flesh is a Preservative and Security against the Plague; which, just before 5, he had intimated was a great Caufe of that very Distemper. But, to pass over this, certainly a Prowefs, like that shewn in these Prescriptions, no Distress, not the highest Danger deterring them, had defervedly rendred these two Gentlemen Heroes equal to Hercules and Thefeus, had

they

P. 29.

* P. 174, 175. 5 P. 173, they thus ventured their own Carcasses: or had the Risque and Hazard been of themselves. But, as the Case was only

and the whole transacted cret.L.2.

--- tud sine Parte Pericli †,

whatever their Patients may, they themselves must not, on Account of these Exploits, expect to have a Place, alotted them, with those ancient Heroes, amongst the Stars. Tis not a little to the Praise of his Constitution that this young Gentleman recovered; when others have very unhappyly miscarryed. Dr. Morton ** mentions one in the Small-Pox, that, being gently purged with a bitter Decoction, had the Fever thereby increased: and a Mortification brought on, attended with a cruel Pain of the Parts,

^{**} Alvum Decocto amaro leniter subducendam justi. At inde—Calor hecticus augebatur, domec tandem Clavicula, Osse Humeri & Tibia sinistra à Veneno latitante Carie affectis,&c.-atroci Dolore partium, &c. D. Morton de Variolis, p. 480, 481.

f Ibid.

and extending even to some of the Bones; which were rendred carious, and black; Parts of them exfoliateing and starting off, daily, till the Patient dyed for And yet that Purge was not given till after the 20th Day. But, the Small-Pox not comeing out, nor filling, kindly, much of the vitious Cause remain'd in the Stomach and Guts; which, being turn'd, by the Purge, upon the Habit, produc'd those dismal Effects. He has an Account of another that, after the giving a gentle Purge for,

Catharti-became suddenly worse: and an cum. Ibid. horrible Gangrene * soon shewed it * Gan- self on the lower faw, and on the granam left Leg, that could, by no Aid of dam. ibid. Physick or Surgery, be curbed, till

it had put an End to Life. 'Twas on that Consideration and the obferving of such Consequences of it,

that moved this Author || honestly

| Ibid. p. to put in a Caution about this Prac
| Anno tise, above 20 Years ago; Time

| 1694. Surely long enough for the Thing

furely long enough for the Thing to be sufficiently published and known. But, indeed, Hippocrates had, many Ages before, censured Purgeing in Case of a Mortification.

He

He mentions a Person that had a Tendency to a Sphacelus in his Hip, to whom two Purges were given; he dyeing a few Hours after takeing the fecond. This great Writer's Judgement on the Case is, that the Patient feem'd in Condition to bave born the Difease for a long Time; had he not been cut off by the Purge | On which Account, where there is Danger of a Mortification, and, in particular, of a Sphacelus of the Bone of the Heel, the very Thing that these Gentlement had under their Care, he prefers Vomiting, recommending Hellebore *, the white Kind, as Galen and Fasius rightly observe and interpret him, then of common Use in Vomits. Dr. Freind, in his 4th Comment, censures the Giveing Vomits, especialy those that are very strong t, in a Pleurify, as contrary to a Pre-

[&]quot;Εδοχεί δ' ομο πλείονα χεόνον διενείκεν, ει μι πτ ε φαρμάκε τι ίχυν. Επιδημ. V.7.

Τερί 'Αγμή S.12.

† Vomitoria--Valentissima. Dr. Freind Comm.

|| Contra cept of Celsus ||. When yet even Pracep-tum Celsi, the strongest Vomits have been giibid. p.50. ven in very dangerous Pleurifyes, not only safely, but to the Rescue of the Patient, and the Saveing of Life; which, in all Probability, could never have been effected without the Assistance of that Operation. Besides Dr. Freind might well have balanc'd the Authority of Celsus by that of Hippocrates; who, both in a Pleurify, and a Peripneumonia, directs ' equal Parts of white Hellebore, Thapfia, and Ela-L.5. 6.17. terium; which, as Bartolettus long ago noted upon this Passage of Hippocrates, are the strongest Vo-But, after all, if Celfus

Пер NEOWY Conf. etiam 6.6. E 9.

> be their Rule, these Gentlemen are certainly very wide of it here. For, treating of a Mortification, or Gangrene, he advises 3 Things that are astringent and binding; which has been generaly followed by the most intelligent Practitioners, both Physicians and Surgeons, ever since. These Gentlemen would do well

^{*} Vomitoria validisima: Bartoletti Method. in Dyspnaam. L. 5. c. 12. p. 513. 2 Celfus. L. 5. c. 26. S. 34.

to consider what there is, in Reason, or Nature, that can countenance a Practife so directly contrary as, theirs is. 'Tis true there are those who give, how rightly I shall not here go about to inquire, a Lenitive Purge before the Use of A-stringents; but I believe these Gentlemen will hardly find one Example, in the whole History of Physick, of such a continued Succession of Purges as they us'd. I consider the Case here simply as a Gangrene; but the Patient haveing at the fame Time the Small-Pox, renders the Practife more extraordinary: and I should have thought that fo dangerous a Symptom, ariseing, to express the Thing in Terms as gentle as may be, upon that so unusual a Practife, should have put them to a Stand: and deterred them from all further Proceeding in their Method. More might be offered from their own Accounts, but this doubtless will be thought sufficient. Passing therefore thus over the Declarations and Affertions of these Gentlemen themfelves, and their Complaifance to

this their own Practife, the Instances, that they have laid in any tolerable Light, make clearly against them: and ferve to discover the Error and Inconvenience of their Method. Had they been pleafed to have referved those Declarations: and, instead of them, given us the whole History of Fact, and their Instances, like those of Dr. Freind, in full Light, we might have seen further into this Affair. Nor is it to be supposed that they would have been kept from Difplaying thefe, in all their Circumstances, if there had been found in them any Thing conduceing to their Purpose. They appear too warm, and zealous for their Hypothesis, ever to conceal or withold any Particulars that might furnish Arguments in Favour of it. in interpreting the Facts that they have represented, and formeing a Judgement, fo contrary to theirs, I am mistaken, that will easyly appear. This I am fure, I have been very carefull in confidering them: and have here delivered my Sentiments and their Compissions

ments with the utmost Faithfull-ness.

XLI. But, after all, if, as they Had make plainly against it, their Ac-their Mecounts had afforded some Instances realy Sucin Favour of Purgeing in the Small-cefsfull, Pox, they had nevertheless been that no Proof of delusive: and far from comeing up the Goodto the Point in Question. Surely ness of it; these Gentlemen could not be so flances befar overseen as not to observe, what ing chiefmust be obvious to every Looker dren, who on, at first View, that their In-run not stances are of Children, and young much People. Excepting two Women of Risque 30 or 40 Years, none of the rest from the appear to be arrived at Age, or full Pox, as Growth. They are therefore styled Men in here, Boys, Girls, Youths: and the Ages affigned are of 5 Years, of 11 Years, of 13, of 17: and the very highest is of 18 Years. Whereas certainly the true Tryal of Skill, and Test of the Goodness of their Method, had been on Men advanced in Age; the Small-Pox being not near fo dangerous to Children, and Persons so very Young. So far from it that, where there is a discreet Conduct of them, as to N 3 Heat

Heat, Cold, Diet, Rest, and the likes they do not ordinaryly miscarry, thô they take no Medicines at all. Their Bodyes are in their Prime, Nature fresh, and the Parts growing. The Organs are ordinaryly less incumber'd: and without Clog, or Obstruction. The Morbid Matter is not so far vitiated, not so exuberant, boifterous, and tumultuous. 'Tis much more eafyly brought to Discipline, and under Government: and more within the Reach and Power of Medicines, if A Diar any be needed. Children are not, like grown Persons, apt to and conhawk, raise Phlegm, spit, and fa-Purgeing, vour the Course of Things upnot fo dan wards. Nor are they fo subject to Stops in the Guts, or to be costive: as to Men and therefore a Diarrhæa is more common to them. The rather, because their Guts are more sensible, yielding, and obedient to the Impulses of Nature. The Resistance and Contrast being thus, in them, less, the Danger must needs be so too. These Gentlemen themselves observe ' that a Diarrhæa, in Children, dureing the Small-Pox, is fo

* P. 117. 127.

Sequently

gerous to

Children

grown.

far

Of Wo-

far from being of any ill Import, or Hazard, that 'tis rather of Benefit. They might, for that very Reafon, well conclude that Purgeing is not of near the same Danger in them as in older Persons, especially Men. As to Women, their Bodyes, being commonly tender de-men. licate, and fine, will not bear fo great a Charge of vitiated Humors as those of Men, especially of the more hardy Fabrick: and confequently the Bodyes of Women are usualy more clear and free. Then Nature has Shifts, and Ways of difengageing her felf, in them, that fhe has not in Men. Besides they are more fensible of their Condition, more carefull, observant, and steady: as well as more dextrous in Helping and Relieveing themfelves, than Men ordinaryly are. So that these Gentlemen should not have given Instances of only a Woman or two, or of a few Children, and Boys: but of Men in Age; of which they have not produced one Example. Consequently had the Method proved clearly successfull in the Cases that they have alleged, this would s

would have fallen far short of a Proof: or answering the End for

which they are proposed.

This Method persued only in the Cooler tavourable Seafor. ..

XLII. Besides, so far as can be collected from Accounts fo imperfect, their Experiments were made in Seafons of all others the most and more favourable: in Winter, or the Beginning of the Spring. Fanuary, February, and April, are the only Months mentioned. Whereas, every Body knows how much more rife and dangerous Fevers are, if not in Summer, certainly in Autumn. So that they should have given us Instances of Success in those Seasons. Those had been the proper Times of Tryal. I will not take upon me to fay that this was allwaies the Cafe, thô there be no Instance of other in their Accounts; but, if their Reason for not giveing Examples of the hotter Seafons, and of Men in Age, was because they had none, all those, treated in this Method, in the hotter Seasons, or in Age, miscarrying, they have dealt very partialy: and tis great odds but what they are to forward to intitle these Operations

tions to, was wholey the Work of Time, and Chance: the Kindness of the Season, and the Goodness of the Constitution in Youth. Those two Circumstances, concurring, might contribute to the Saveing of a Patient, that an unfit Operation, without their Concourfe, might have proved fatal to. These Gentlemen, I hope, want not to be told, that no right Judgement can ever possibly be past in any Case where all Circumstances are not set forth: and, in a Thing, of the Price and Moment that the Life of Man is, they could never have been too particular. Or, if they will judge in Gross, and by the Lump, in Partiality and Fondness to a new Method of their own, they can have no Caufe to think it amifs, that Others bring the Thing to the Test anew: and scan it over again, more deliberately than they themfelves, appear, at least, to have done.

XLIII. Be that as it will, the The Authors every where celebrate this high Opi-Practife: and are in the highest these Gen-Raptures and Transports about it. tlemen entertained of their own Method.

The Gentleman, who makes use of Camphore and Acids +, tells Us *, that by this Method of Bleeding, and Purgeing, he has known many Inatched out of the very faws of Death. Whatever may be thought of his Style, and Expression, on all other Occasions, it must be allowed that here he very properly uses a Poetical Phrase, Orci Faucibus ereptos ||. Another of these Gentlemen, on whom I have had Occasion to make the most Remarks. is very full, and highly possessed of the great Excellency of this Method: talks of dayly Experience 1: and innumerable Examples: but is pleased to say, out of these, he will select only a fere. 'I is not to be thought that thefe, fo felected, were fuch as made the least of all to his Purpose: and, if the rest made less, he certainly did well and wifely to referve them. Indeed there are fo

⁺ Conf. p. 118. Supra.

^{*} Comment. P. 118.

[|] Ibid. P. 1:8.

Experientia suppeditat. Pauca tantum seligam, ut quomodo hec Medicina ad varios & difficilimos Casus accommodetur, ostendam. Ibid. P. 123.

few, here, in all, that these Five Gentlemen have given us the Cases of no more than Eleven, who, it cannot be faid were recovered by this Practife, but who outlived it. To proceed. The Gentlemen last mentioned averrs, with what Justice let every one judge, this Method + of Cureing, for so he is pleased to Style it, bath succeeded assuredly so bappyly with him, that he concludes his Account with a kind of Manifesto, setting forth, that he thinks it for the Advantage of all Mankind that it be published. Nay, thô the Act for Licensing Books be expired, there is prefixed, to the Title of this, a License, with the Names of three of these very Gentlemen to it, they being, this Year, Cenfors of the College of Physicians, declareing, in a Form very lofty, that they judg this Book, containing what Dr. Freind and they themfelves have here

[†] Mihi certè ita feliciter cessit hac Medendi Via, ut humani generis interesse putem, ut illa publici Juris siat. P. 127.

jointly wrote, most worthy to be printed and published. does one of all these Gentlegiven the men mention the Miscarriage of least Hint, any single Patient, under this Mebut that thod, where thoroughly perfued: cured who and if it was attended with such Success, 'tis furely what never atthat Me- tended any Method before, nor will ever hereafter. Dr. Freind Tho there has, much for the Honour of Hippofon to be- crates, and the Afferting of his Integrity, taken Notice + that, of lieve it with such 42 Patients that pass'd his Care in Fevers, he frankly and plainly ac-Success. knowledges 24 dyed. And yet Dr. Freind justly represents him, as a Man of fo great Knowledge and Sagacity, that if they were not otherwise to be had, all the Indications of the Cure of acute Fevers might be retrieved from his Writeings ||. Now these Gentlemen must be reputed vastly superior to Hippocrates, in every Respect, if all, treated in this their Method, re-

^{*} Librum bunc cui Titulus, &c. dignissimum censemus qui in publicum prodeat.

[†] Comment. P. 10.

covered: and, if they did not, as I am persuaded will, one Day, but too plainly appear, then these Gentlemen have not dealt with the Candour, and Frankness, that was requisite in an Affair of so great and general Concern. For fuch a Concealment, on the one Hand: and, on the other, fuch Panegyricks, as they fet forth of it, may ferve to lead other Practitioners into a Method that there is Reason enough to think is wrong, and likely to prove very unfortunate to them. This is the true and only Motive of my entring thus far into Particulars: and being fo folicitous to shew the Consequences of it.

xLIV. Had this Method been, Of the realy, so universaly successfull, there late frequent Missonght to have been given earlyer carriages. Intimations of it; especially at a in the Time that such unusually great the Small-Numbers have fallen Sacrifices to Pox. this Mercyless Distemper. It appears from the Bills of Mortality, that there dyed, the latter End of the last Summer, and in the Autumn, of the Small-Pox, 60, 100, nay 125

in

in a Week: and 2427 in the whole Year. This I think is obvious enough to be observed, that the Small-Pox cannot be faid to have decreased, or the Numbers, of the Dead of this Disease, in the Bills of Mortality, to have lessened, since the bringing in this new Practife. If we fix the Æra of it to the Year 1709, which is the earlyest Date fet forth in these Commentaryes, there appears by the Bills of Mortality to have dyed of the Small-Pox 1024 that Year. But, in the very next, there dyed 3138; which is above Triple the Number: and indeed, I think, more than was ever known to have dyed here of that Distemper, either before, or fince. Now this Year was the chief Time of their Practife, fo far as Judgement may be made from this Commentary; in which, I have had Occasion to complain more than once, that, excepting what Dr. Freind has written, Things are huddled up: and not fett forth so particularly and distinctly as was requisite. There is but One Case of the Year 1709. The

The rest are of the Year 1710. The whole Number of the Deceased that Year was 24620. Whereof, as has been intimated, 3138 were taken off by the Small-Pox. So that, thô, to the Diseases, Confumptions, Convultions, and all the rest, we add those that were Stillborn, those that dyed of meer Age, or by fome Cafualty, e. gr. that were drowned, killed, and those that were executed, more than i of the whole Number fell by the Small-Pox. A Thing, thô realy true, fo furprizeing as not eafyly to be credited. This at least shews there is but too much Reason for Inquireing into the Causes of this strange Havock: and Indeavouring to restrain it. For these Gentlemen, if they will not reckon this fo very great sudden and disproportionate Increase of the Number of those that dyed of the Small-Pox, upon their Entring on this New Method, an Argument of the good Success of their Practife, I shall not infift upon it as an Argument of the contrary. records nignisd nightW

The Increase of Disceases in London.

XLV. This is certain that London has been much less healthy, of late, than heretofore: and Difeales generaly more mortal. These last eight Years there have dyed of the Small-Pox 14928. In the eight Years immediately foregoing, i. e. from the Beginning of the Century, to the Year 1708, inclusive, there dyed but 8386; which is not much more than half the Number; there haveing dyed 6542 more in the last, than there did in the first eight Years. The Measles have been at a Stand: and pretty near equal. But the Article of Fevers in general, is much inlarged; there dying, in the last eight Years, 4839 more than in the precedent. The Spotted Fever is increased by 757: and the Purples are very near doubled. There being a continual Increase of the Number of the Inhabitants of the Town, by the Access and Settlement of new Families here, the Births, these last eight Years, are indeed increas'd 2503. But the Burials are increas'd 13554. Which, being in a Proportion greater than 5 to 1, must needs be allow'd

allow'd to be a strange and very aftonishing Increase of Mortality. Then, for those that do not dye, they live generaly more unhappyly than heretofore: and their Complaints, Infirmityes, and Diseases, are much multiplyed. To pass over the Venereal Affections, which are more frequent than ever, Vapours, and other Disturbances of the Head, Chagrin, Melancholy, Lassitude, Faintness, that Indispofition lately named a Fever of the Spirits, those called Nervine Affections, Diforders of the Stomach, the Collic, Pains of the Back and Limbs, and many other Ails, and Complaints, are in the Mouths of almost all, Men, Women, and Children; even those that are up, abroad in Business, and the Affairs of the World; which consequently are thereby much impeded, and interrupted: Life rendred a Burden, and oftentimes miserable. Such a Torrent of Death, and of Difasters, cannot but much startle and alarm those, who duely regard and obferve these Things. 'Tis what we are all greatly concerned in: and indeed

indeed requires the Interpolition, and Care of the Government; the Good, the Happiness, and Security of the Subjects so greatly and generally requireing and claiming it.

The Causes of shis.

XLVI. Nor, in Order to the Redresting so great and extensive a Greivance, can any Thing be more feasonable, or of higher Importance, than the Discovery of the true Reasons, and Causes of it. Thô this be not a Place wholey proper for fuch an Undertakeing, yet, of meer Humanity, and Compassion to my Country, thus languishing and fuffering, I cannot forbear briefly to point forth the main of them: and they are reducible chiefly to two Heads. 1. Error in Diet, and the ordinary Conduct of Life. 2. Error in the Administration of Medicines.

XLVII. Our Error in Diet conror in Die sists partly in the Nature and Sort of
et, and the
it: in high Seasoning, strong Sauof Life. ces, Pickles, new Dishes, new Modes
of Cookery, brought amongst us
by the Foreigners that have come
over, in so great Numbers, for about

bout 30 Years past. The so frequent Use of Chocolate, of Coffee, Limonade, Punch : but more especialy of Tea, drank, now, in so great Excess, all over the Kingdom; to the Neglect of the much better and more wholfome Products of our own Country, the Mispending our Treasure, and carrying it even to the most distant and remote Parts of the World: or to the Exchange of our own usefull Manufactures, not only for Trifles, and Things of no real Use, but for such as are detrimental, and injurious. To these Sauces, and these Liquors, our vertuous, wife, stout, healthy Ancestors were Strangers. By the former, Intemperance and Excess, is promoted: and confequently, in Tract of Time, an Indigestion brought on. By the Liquors, Way is made for a fresh Appetite, and new Charge; these Swilling the Indigestion, and vitious Contents of the Stomach, into the Blood, casting them upon the Habit, and Organs of the Body. Hence the great Increase of the Stone, Gout, Rheumatism, Nervine and other Affections.

To this fo constant and fections. fetled a Course of Gluttony is owing the late great Multiplication of Pastry-Cooks in the City; there being now perhaps Ten for One a few Years ago. Their Shops and Houses are more splendid and pompous, and they increase faster, not only than any one, but perhaps than all other Trades; excepting those that serve to the very same Purpose, Confectioners, Taverns, Distillers, Ale-houses, Coffee-houses, Chocolate-houses, the Merchants and Venders of Coffee, Tea, and Cho-The Confequence of this colate. great Increase of the Arts of Luxury and Intemperance, are Vice and Immorality: Irreligion, Impiety: Passion, Animosity, Contention, Faetion: Neglect of Thought, Studyes, and Business: Mispending of Time: Ignorance: Stupidity: Poverty: Discontent: Sickness, Diseases. This fo long and dismal a Train of Evils is not to be displayed in a little Room: and I have not much to allow it. As by Abstinence +, and

Sine Cerere, & Libero, friget Venus. with-

withholding of the Fuel *, the Flame ceases, and is extinguished, an Awe, Modesty, and correct Deportment, is fecur'd, and the Supply of a vitious Disposition cutt off; so, by Fullness of Bread, continual Pampering, and over liberal Incentives, 'tis cherished, and heightned. This is what every Man either feels too plainly in himself, or has Opportunity, more than enough, of observeing in others, to need Then, it animates, inflames, renders dareing, bold, proud, insolent, enterprizeing. When continued, and habitual, it clogs and crouds the Organs; indisposeing them, and rendring them unfit for their proper Action, Ends, and Offices. As even Cogitation it felf depends upon these, it must likwise receive a Check in Proportion to the Depravation of the Biliofe Salts, and the Failure and Impediments of the Organs. So that where there is a general Intemperance, the neceffary Consequence must be as general a Doltishness, Stupidity, Want

Tatius. L. 2. O 2 of

of cool serious Reflection, and of right Reasoning. Philosophy and real Learning will be no Part, and indeed rarely admitted, in fuch a Scene. The She v of them, many Books, great Libraryes, and the like, will amuse, and serve full as well. Nay the greater the Ignorance, oftentimes the better. They who are Judges, and shall look a little round into the present State of Professions, and the Sciences, will not have much Cause of Doubt of their Reluctance: or that they may not pretty generaly chime in, and comport with this Module, and State of Things. Such an Ignorance, and Stupidity, with the licentious boisterous Disposition that attends it, must, of course, bring forth Notions and Principles the most immoral: as well as irrational in the highest Degree; even Atheism it self. This assuredly never begins in the Head, or in real Reasoning: but proceeds from below, and is, the Refult of Senfuality. But when once Atheistical Principles are taken up, the vileft and worst of Practises become im-Andrew Land Like mediately

mediately honourable, right, rational: and the simple Mortals, around, that cannot fo readily and eafyly fall into them, are derided, despised, as insipid, less refined, and of a more low and vulgar Genius. The Humor may proceed so far that the Sentiments of all, even the wisest Ages, before, may come to be rejected, and contemned: and Nothing, but what is new, and fuited to fuch a Gust, admitted. Men so pamper'd, inflated, and full of themselves, forget their natural Frailtyes, and their Dependencyes: and need no Deity in their Scheme. They eafyly break through Rules, Forms, and Establishments; contemning both the Judgement and the Example of their more modest and humble, as well as more difcerning and intelligent Ancestors. Nor will there ever be wanting Minds so mean and flaveish as to concurr with, to countenance, and even find out Reafonings for the Support of Principles and Practifes fo very heinous and unhappy. A Nation, once arrived at fuch a Pitch, is furely destined and ripe for Ruin, and the

worst of Fates. What will be likely to push on, and hasten this, is the Exorbitance of Passion, which must necessarily attend the Increase of the Biliofe Salts, that are the Instruments + of the Passions, drawn 4. 14, 15 out of the Meats eaten: and must be consequently proportion'd to the Excess of them. Then Meats seafoned, Sauces, and Things of high Savour, which make fo confiderable a Figure in the New Cookery, fupply those Salts in the greatest Plenty. The Passions must be still more heightned by thefe: vitious Inclinations spurr'd on: and the Head putt into a Hurrey: Pride and Ambition incited: and a Difposition to Discontent, Resentment, Strife and Faction, brought on. As Intemperance leads naturaly to the mispending of Time, Neglect of Business, and Waste of Fortune: as it renders Men, needy, desperate, and enterpriseing, there will be great Store of those, who will be disposed, and indeed have Occasion, to fish in Waters so troubled: and make their Advantage of the publick Misfortunes. Such an THE THE CREEK SELECTION OF

Ages, led to the Subversion of Goyernment: or to the Dissolution of the best and wisest of Constitutions, in Church, and State. Gluttony is sure to bring on Load of the Stomach, and Indigestion: and as this, become putrid, and vitious, is, with a redundant or degenerous Bile, the Principle and Cause of all Diseases, a large and plentyfull Crop of them must needs follow.

XLVIII. To these are owing the 2. Error great Numbers of Physicians, Sur-in the Adgeons, Apothecaryes: and of the ministration of Under-Practitioners, that appear on Medicevery Hand;

Und Eurusque Notusque ruunt, Ancid I. creberque Procellis
Africus.—

'Twould be very happy, and these all well and rightly employed, was the Evill repress'd: and Diseases lessened, by their Means. But this is so far from being the Case, that they are, we see, increased: and, the more Medicines are given, ordinaryly,

dinaryly, the faster the Symptoms and Complaints multiply. The Body is rendred more and more languid: fett nearer still and nearer unto Death. This is a Thing of that high Importance to us all, that I could wish I might take the Liberty here to fett forth those, which, on the most carefull Inquiry, feem to me to be the Caufes of it. But that will not be allowed: and I must content my self with pointing forth only the Heads of them. These are, Multitudes of unqualifyed, and of unlicenced Practitioners. The Power of the College defective: or not rightly exerted. A great Neglect of Statutes, perhaps the best, and wisest, as well as the most moral, that ever were composed. A Narrowness, Partiality, and Want of due Concern for the Honour, Esteem, and Happyness of the Community. Instead of that, Setting up Clubs, Cabals, and Combinations; with Defign to supplant All who come not into their Measures. Difregard of the only true End of the Institution of Physick, the Good and Happyness of the People. Methods of Practife that are irrational; e. gr. Attempts to purify the Blood, without previous Care to clear the Stomach, Guts, and Wayes into the Blood. Repressing the Critical Efforts of Nature, checking of Excretions, and restraining vitious Principles in the Body. Laying the Stress of the Cure upon Things that only imbarass and palliate over the Malady, for a little while; fuch as Opiates, the Cortex, Steel, or the like. Directing Medicines to be taken at unfitt Times, in improper Doses, without just Indications: or perhaps in such Quantity, and repeated fo frequently, as to become oppressive, and an Annoyance. Giveing Medicines compounded, mixed, and in Confort, that are of different Constitution, clash with each other, and make great Confusions in the Body. Permitting Medicines that are not natural, to stay in the Body longer than while they do what they were fent down to do. Practifeing only upon Receits, without being duely apprized of the Causes of Diseases, and

and of all that is amiss within: thoroughly informed of the Powers, Propertyes, and Action of the Medicine: or posses'd of the Methods of distinguishing, whether Things fucceed rightly within or not, what Progress is made in the Cure, and when the Work is done. In all which Cases there must needs be very blind, uncertain, and oftentimes mischievous Doings. This is fo very plain that every One must, of Necessity, allow it. So that, from what has been brought to any Certainty by those honest and judicious Writers, whose Labours we may reap the Fruits of, and from our own Diligence and Study, the Powers of those few plain tryed Medicines that we ought to use, should be determined, and afcertained. Then the Structure of the Body of Man, and its State in Health, should be clearly displayed, brought into open Light: and wherein it differs from that State, under each Symptom, and Difeafe, plainly shewn. For they, who are not thoroughly informed in these Respects, act wholey in the Dark, and

and at Random. They have no Rule, no Compass to steer by: and have not reduced Physick into any Form of Art; practifeing merely by Guefs, and at a Venture. 'Twas long ago the Complaint of Hippocrates + that because fuch pass, with those who distinguish not better, for Physicians, on Account of their Want of real Accomplishment, the Art, that is of all others the most excellent, is brought into Difesteem and Neglect. But yet fuch ordinaryly are the most tenacious: and secure in their own Ways. Nay, how defective foever they may be as to real Knowledge, they are usualy talkative *, oftentatious: and take all Occasions to decry Philosophizeing in Practife; being as averse to the introduceing of Reafoning into Phyfick, as fome are to the admitting it into Religion. On which Account they are forward to expose and deride Those, who are makeing Experiments and Ob-

T Nopgs. Sett. I.

^{*} Verba superesse, deesse Medendi Scientiam. Celsus L. I.

servations, informeing themselves of the Nature of those Things that they use in Medicine, takeing Pains in Anatomy, and in Diffecting of Bodyes both in a healthy and morbid State. Those Gentlemen have a shorter, easyer, and more pleasant Way: and indeed a furer, for their own Gain; that commonly going along with the Noise: and, to secure that, they, with the whole Cry of their numerous Dependents, descend to the meanest Arts to blast, defame, and run down all who stand in the Way of that Gain: or who indeayour to discover a more rational, safe, and successful Practise; Nothing tending fo directly to unveil their Amusements, or shake their Tenure amongst the People. Their Artifices in Physick bring naturaly into my Mind, that Theology which created heretofore so much Difficulty and Molestation to a very great, wife, and good Man; with whose Words, on the Occasion, I shall conclude. Res è pessimis Fontibus primum orta est. Deinde pessimis Rationibus bucusque profecta.

fecta. Ex Odio bonarum Literarum, & Stoliditate Monachorum, primum orta est bac Tragadia. Deinde magnis Convitiis, & malitiofis Con-Spirationibus, buc Vesania Res progressa est. Quo tendant, nulli dubium est; nimirum ut, oppressis bis Literis, quas illi nesciunt, impunè regnent cum sua Barbarie*. but that, as there were then, under that so extensive and great Degeneracy, Divines who exerted themfelves, shone forth: and, by their uncommon and illustrious Learning, dispersed those Clouds of Ignorance, and Error; fo there are not wanting now, in England, Physicians that, with the greatest Honor, and Integrity, withstand this Tide of Corruption: and shew a Learning not inferior to that of their Predeceffors; who, by means of what they set forth in Natural History, in Anatomy, and on other Subjects, have carryed the Character of the Physicians of England to so great Height, and with fo just Applause,

^{*} D. Erasmi Epist ad Gerhar. Noviomagum. 1920, ap. Struv. Att. Literar. Il. p. 107.

over the whole learned World. Nor would they judge at all right, who, from any Part of this Reprefentation, should inferr that England is, either as to Senfe, Learning, or Physick, by any means inferior, or in worfe Plight than her Neighbour Nations. The late tedious War has carryed the main Caufe of the above recited Difasters' all over Europe. For, besides that, in War, Learning finds little Favour, or Countenance, the Officers, after great Fatigues, hard Marches, long Watching, and oftentimes short Provision, required, when they were to be had, greater Supplyes, and stronger Liquors, than ordinary. These, being commonly Men of the best Familyes, returning Home, in the Winter, brought the Custom into their own Countryes: and, by this Means, Nations, before, the most abstemious, have been carryed to the greatest Excess of Riot and Voluptuousness. - But, such is the Nature of Man: and this Difposition is far from new. 'Twas, long ago, the Remark of a great PhiloPhilosopher of how quickly Ill Cuftoms steal in, and gain Ground. Tho Vertue be not easyly attained: and both great Government and Conduct be requisite for the makeing due Impressions of Morality; Vices are learned, without any Tutoring, or Pains at all.

possible, deliver'd these Intimations Stomach and Cautions, relateing to other the Source Diseases, and Accidents, which I ious Princh hope will not be thought wholey ciples that needless, or unprositable, I now pro-Fever, and ceed on with the Consideration of the other the Small-Pox: and what Dr. Freind, toms, in and the Physicians in Consort with the 4th him, have proposed. It has been, Stadium I think, sufficiently shewn, that the Small. Arguments, of these Gentlemen, Pox. for Purgeing, on the Access of the second Fever, are not by any means conclusive: that even their own Accounts, instead of proveing what they alledge them for, prove

[†] Citò Nequitia subrepit. Virtus difficilis inventu est, Restorem Ducemque desiderat. Etiàm sine Magistro Vitia discuntur. L. Annæi Senecæ. Quæst. Nat. Lib. 3. C. 30.

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rather the contrary: that both Nature and Reason are reluctant, and no Ways favour that Method: that 'tis fo far from haveing any Countenance from Hippocrates, that his Precepts and Reasonings run direally counter to it. So that the Question, propounded above +, recurrs; ——In Case any be needfull, what Sort of Evacuation is to be used? To which I think the Anfwer is very obvious, and plain. The Stomach * is the Source of the Morbid Matter, and of the Caufe of all the Dangers and Difasters in this Case. Now that Matter is to be discharged thence, and cast out, only two Ways; downwards, or upwards. For the first of these, 'tis what I have been treating of hitherto: and in particular their Method of Purgeing. All our Experience, and our Observations on the Rules of Nature, in this Affair, make clearly against it. While, in the Course of the Disease, the morbid Matter tends upwards, the

[†] P. 130. * Conf. G. 54. infra.

Patient is ordinaryly as fafe, as he is ever in Danger if it turns downwards. The Mechanism of the Body makes as clearly against Purgeing. How great a Paradox it is to thin this morbid Matter: to rouse it, to fend it into the Gutts: to trail it, for the whole Length of them, before the Orifices of all the Lacteals, and ordinary Passages out of the Gutts into the Blood, thorough which Passages much of this Matter, that is the Cause of all the Disasters there, must unavoidably be hurryed, and the Danger thereby necesfarily increased, has been intimated above.

L. Now all this is plainly a- So that voided by Vomiting. The Matter, Vomiting which is the Cause of all the Sympted: and toms, may, in this Way, be flung more prodirectly out of the Body, by a Purgeing. proper Medicine, and a discreet Conf. p. Management; to the immediate supra. Rescue and Relief of the Patient; without Hazard of Addition to the Blood: or increaseing the Symptoms of the Habit. Nor is Vomiting only pointed forth by the Matter

Matter being in the very Part on which that Operation is exercifed, but indicated by every one of the Symptoms; the ill Flavour, and Taste, the Naufea, the Reaching: nay even by the Coma, the Phrenitis, the Oppression of the Breast, and Difficulty of Breathing. these yield as constantly as a Vomit is difcreetly administred. Fever does so likewise; as certainly as 'tis ever increased by Purges. Even a Diarrhæa, which is an Error of Nature, and the Symptom that misleads these Gentlemen, is much the most fafely and effectualy turned off by Vomiting. This is for well known, and experienced in ordinary Practife, even of common Diarrhæa's, and Dysenteryes, that no one can doubt of it. Hippocrates has, long ago, observed that a Vomiting, that is merely spontaneous, and comes on of it felf, puts an end to a Diarrhaa +.

ment of Vomits.

LI. I am well aware that those Manage- who give improper Vomits, and

T'A TO Europa TE Epel @ 671 Shoplo plu . Dues The Mapposan, Hippocrates Aphorism. 15. 5. 6. fuch

fuch as are not amicable to human Nature: or Doses so slight that their Operation must be trisleing, impotent, and, without ever Clearing the Stomach, serve only to make the Patient fick: or to disturb and rouse the vitious Principles, and perhaps cast Part of them into the Blood; produceing thereby many ill ones, but not one fingle good Effect; fuch, I fay, may have, by that means, put themselves out of Conceit with Vomiting: and have but too much Reason to be fearfull and apprehensive of it. So likewise may those that know not the Method of rightly predisposing the Stomach in fuch Sort as to render it yielding, eafy, and free to the Difchargeing what it contains: those who do not understand the way of artfully promoting and effectualy carrying on that Operation. But much more those who have been wont to leave the Management of it to the Patient: or to fome Affiftant that has perhaps as little Skill, and is much more likely to frustrate, and disappoint, than rightly perfue the Evacuation. E-

very Physician, that expects Good from it, must carefully attend, overlook and direct the Whole himfelf: and, if he do that, thô he give Vomitive Medicines in Cafes of the utmost Difficulty, and Danger, and where the Patient is reduced to almost the last Extremity, and Diffrefs, He will never find the least Ill arise, from the Operation, if discreetly carryed on. But, on the contrary, the Symptoms yielding; the Faintness less afterwards: the Spirits raised: the Strength augmented: the Courage inhaunced: and the whole Body rendred eafyer; by Turning off, by Vomit, the Current of the ill Principles that were before continualy charged upon it, and that incessantly oppress'd and hurt it. I should rejoyce that this were a proper Place, to fett forth the Particulars of this Management. But it consists chiefly in laying, as far as possible, before the Vomit be given, fuch Wind as may happen to be in the Stomach, and must needs hinder its Contractions, in Order to the Expelling of what is contain'd

in it: in the Conduct of the Drinking Sack-Whey, thin'd by Water, or fuch other Liquids as may be gratefull, and proper to attenuate Phlegm, fo as to dispose it the more easyly to afcend: in prompting the Stomach, and dextroufly folliciteing the Rife of the Contents of it so quick that Nothing may pass downwards, bring on a Loofeness, pollute the Blood, and affect the Habit: and finaly in animateing and invigorateing the Stomach, at proper Intervalls, by means of Surfeit-Water, warm Canary, or some other like foft fweet Wine. thing fo happyly facilitates, and kindly promotes the Operation: and they that give Decoctions of green Tea, Carduus, other Bitters, Warm-Water, or any Thing else that is flatulent, offensive, and does not joyn in the same Mechanical Mode of Action with the Vomit, only pervert, confound, and impede the Operation. Whereas, when 'tis rightly and skillfully transacted, the Vomiting is ever flush, easy, and free. Nay by a proper Difposition of the Body, and Ordina-P 4 tion

tion of Things, before-hand, with a discreet Pursuit of the Operation, little Doses, and Vomits of the most kindly Nature, may be brought to do the Business, effectualy, and to Purpose. Every wife and good Man will have the utmost Tenderness and Regard to human Nature: and attempt Nothing by Means that are rash, or may succeed ill. Indeed a Man of but common Sense will be far from being forward and precipitate in an Administration, which is, thô no ways in the least hazardous, if he has Skill, thought unpleasant, feared, and lyes under ill Imputation, among fuch who have been indifcreetly treated, or who do not understand it. Then 'tis what will certainly take him up, besides the Pains and Attendance, much Time, Care and Thought. Nay, 'twill lay him open to the Blast and Censure of fuch Lookers on as may happen to be of a bufy medleing or invidious Disposition. So that, if he regard either his own Character, or his Interest, this is an Enterprize that, of all others, he should the most a fludiously

studiously avoid. But an honest Physician must involve himself in his own Integrity: and, when he is in open Light, and fees his Way plainly, act with due Courage, and not let Life be trifled away: acquitt his Conscience, and do his Duty; but ever with the utmost Guard: and Superintendance over the whole Affair himself. This indeed will cost him more; but his Satisfaction will be greater. They whose Hopes, I am forry to fay whose Aims, are not to cure and extirpate Diseases, but to amuse, keep People quiet, and as eafy as may be under Ails, may decry all Vomits: or perhaps recommend only what they call Pukeing and gentle Vomits. Assuredly there can be none truely fuch besides those that answer the End of the Administration, effectualy, and so as they may prove kindly, not only in their Operations, but, which is of vaftly greater Moment, in their Effects and Consequences. Nature is not to be charmed, or Difeases bribed off by foft Words. 'Tis hardly credible how great Injury is done by frivolous Medicines;

cines; even when frequently both the Patient, and the Giver, are pleased for the Time : do not confider the Symptoms that arife a while after: or perhaps afcribe them to other Causes. Not but that I have, again and again, observed, following on fuch Practife, Effects that have been fo great, fo fudden, and fo evident, as not to leave any Room for Doubt what it was they were owing to. Thus I have been confulted in the Small-Pox, where there had been given, a while before, a Vomit, that was impotent, and not closely perfued; whereby the vitious Principles in the Stomach were thinned, roused: and, instead of being cast up, sluiced into the Blood in fuch a Torrent as could never after be stemm'd, or got a Head off; the Patient being thereby hurryed out of the World in half the Time that the most furious Small-Pox are ever wont to do it. So likewife have I known, by only a Decoction of Carduus, a flight Ague turned into a Fever, so continual, and so fierce, as to fett Life very hard: and not

to be brought to any Truce, by the utmost Care and Skill of three very eminent Physicians, in less than ten Days. Nor was the Patient, thô young, in Condition to go abroad till after fix Weeks. All which, 'twas manifest, had been prevented by a proper Vomit, given in due Dose, and rightly managed. Nor is it strange that by the same Error, a flight Afthma should be changed into a very furprizeingly great Ascites or Dropsy +: a Pain of the Stomach, into a violent Rheumatism: what is ordinaryly called a Heavyness or Oppression of the Stomach, into a deep and obstinate Melancholy; with other like cruel Accidents; of which I have not heared of one that ever happened, where the Medicine given was proper, the Dose sufficient, and the Operation rightly carryed on. Nor, in this Cafe, is there near the Sickness, or the Faintness, the Toyl and Difficulty, the Tediousness, and Delay, that there ordinaryly is with impotent Vomits. 222,111-

fra.

So that those concerned ought to do the Business, or not to attempt it: to direct Medicines that will have Effect, and operate, or else none.

The Vo- LII. The Thing next to be conmitive fidered is, which, of the many in
cines of Use, are the Vomits proper on this
principal Occasion. What I shall first menUse. Of Ipe-tion is Ipecacuanha. This is a Mecacuanha. dicine, now, in all Hands: very
Conf. p.

manageable, and of eafy Discipline. 'Tis reputed universaly a Specifick in a Diarrhæa, the Symptom that these Gentlemen have so much in View. 'Twas indeed brought over, at first, under that Notion, from Brazil: used merely as a Remedy of Diarrhæa's, and Dysenteryes: and not fimply as a Vomit, till of late Years. When fresh powder'd, it operates much better than when stale. To those who care not to take it in Powder, a cold Infusion of it, for about 20 Hours, in 3 Ounces of Canary, filtred off, is no Wayes ungratefull: and fucceeds, in the finer Bodyes, com-

of Oxy. ceeds, in the finer Bodyes, commel of monly very well. Oxymel of
Squills. Squills is of old Prescription: and
conf. p.
223,infra. has

has been long in ordinary Use. This works ever kindly, and frequently, if briskly prompted, very effectualy. Befides, there are Instances of this Medicine's being accidentaly diuretic, and bringing on a Profluvium of Urine; which proves usualy a very happy and Salutary Crisis in this Case. Sometimes it raifes a Spitting; but ever to very good Purpose. Insomuch that nothing is more feafonably administred, when the Spitting, that ordinaryly attends the Small-Pox, happens to faulter, or flacken, than this, given either alone, or with Dr. Steven's Water, compound Briony-Water, or the like. Oyl of Sweet Almonds is also greatly sionaly of ferviceable to the same Purpose, of Sweet either by it felf, or together with Almonds. Canary warmed. If it be defired that this go further, and excite a Vomiting, nothing more is needfull than that the Patient drink Sack-Whey, warm, a flight Decoction of some dry'd Herb, not ungratefull, or ill tasted, e. gr. of Sage, of Ground-Ivy, or of Marsh-Mallows: and urge the Rife of it again with a Feather.

Of Tartarus Emeticus.

ther. When the Cafe has been fuch as to render it needfull, and I have judged it proper, in other Fevers, I have to the Ipecacuanha, added from One to four Grains of Tartarus Emeticus; allways with good Success. Ipecacuanha is a Medicine of a very mild, and indeed flight Operation. It fometimes roufes Matter without Casting it effectualy out; which commonly excites no fmall Diforders. As has been intimated above, 'tis ever much better, fafer, and easyer, to the Patient, as well as more beneficial, that the Medicine work briskly, and freely, if under good Guard, and a prudent Regulation. Nor does any Medicine do that more furely than Tartarus Emeticus: or, joyned with Ipecacuanha, more kindly aid it, and supply its Defects. What fucceeds fo happyly in other Fevers, fucceeds as happyly in the Small-Pox; fo far as I have made Tryal, and where there has happened to be a just Claim for it. It will fometimes fo fall out that the Vomit, in Conclusion, will work downwards, and purge; especialy

especially if the Medicine be slight, or the Dose little, so as not sufficiently to incite the Stomach, and rouse the Contents of it: or the Operation be not rightly promoted, and closely perfued. This is particularly a not uncommon Effect of Oxymel of Squills. On which Account I am not forward to Use it; unless in Children: or where the Case is gone so far, and the Patient feemingly fo near Death, that Lookers on, then ordinaryly in a Hurry and Fright, scruple, and are under Apprehensions of a more powerfull Vomit. Being confulted for Mr. John Bryan, then about 11 Years of Age, the 14th Day from the Eruption of a most dangerous Fluxed Small-Pox, when all prefent thought him expiring, I gave this Medicine: and, thô there was joyn'd with it some Cordial Water, as I remember, Aq. Cinamomi fortior, it took immediately a Turn downwards, purgeing him furiously; which made Way for his Rescue, and happy Recovery. I have known some other like Instances; which I freely and candidly

didly acknowledge to these Gentlemen, that, if they think it favour their Hypothesis, they may make their Advantages of it. But one Thing I must defire them to take Notice of, that, from the Medicine's Steering its Course so readily downwards, 'tis certain that the Way thorough the Guts, in this Cafe, happen'd to be open, and the Passage free; so that there was little of the morbid Matter turned into the Blood. Of which 'twill be very hard for them to be fecure when they give their Purges. What does not much favour their Notion of fo very gentle Purgeing, any more than the attempting to curb or restrain the Diarrhæa +, is, that if Vomits turn thus downwards, the more briskly and quick they pass, the better: and the fewer Inconveniencyes infue. On which Account, when the Vomits have happened to take that Courfe, but, by reason of some Incumbrance in the Way, purged very flackly: or where a flight Diarrhæa has come on, I

The Use of Clysters in the small-Pox.

have usualy ordered a Clyster, to convey speedily forth what was thus sent down into the Guts; ever greatly to the Advantage of the Patient. And, that I may mention that by the by, in other Accidents of this Distemper, where, by reafon of an Over-Charge of noxious Matter, stopp'd in the Guts, by Wind, and so Part of it turn'd cross-wayes into the Blood, the Symptoms have been urgeing, tumultuous, and ruffleing, I have, to take off those Stops, in order to diminish and draw off some of that Matter, prescribed this Operation with very happy Success. There was, in the Case of Mr. William Roberts, in a dangerous fluxed Small-Pox, Instance of this, twice; on the 4th, and again on the 6th Day, from the Eruption; at both which Times he was oppressed, sunk, dispirited: and his Life thought in the utmost Distress, by all; particularly by Mr. Miller, Apothecary, a Man of Learning, and a good Judg, whose Kinsman he is, and in whose House he lodged. 'Tis very well worth Regard, and perience and of the great Experience and of the right Judgement of Hippocrates, that, tho he will not by any means allow Purgeing Medicines of to be given in high Fevers, he directs the free Use of Clysters, as often as there may be occasion; observeing, very justly, that this Operation is of less Danger than that of Purgeing.

The LIII. The same great wise Writer Judgement of incourages the Practise of Vomiting in Fevers. For the Colical Pains erates in that happen ordinaryly in Summer, Vomiting and are generally attended with a in Fevers. Fever, he advises Vomiting *: and

the Operation to be repeated, if there be Occasion. So, in that Fever that was, in the Summer Season, frequently very vehement, and common, in Greece, he recommends Vomiting ||. He had indeed a proper Indication for that Administra-

* Песі Падыч. Sett. 15.

Ibid. J. 13.

τουκεν ε χρη τοις ί αυροίς της πυ.
ρετής φάρμανα καθαρτήρια τοροφέρουν αλλ δώ κνα δέη, πουκλύζειν χρη,
όποζάκις αν βέλει άκινδιωόπερον γάρ.
Η Η Τορος τα τος φαρμάνης. Sect. 5.

tion from the Vomiting; and from the Descent of Choler, that he obferved fometimes to happen in that Case; which therefore appears to be fomewhat allyed to the Cholera. In which Disease Hippocrates gave Hellebore: and vomited the Patient. All know that the Cholera happens not without a Fever: and Hippocrates elsewhere afferts that the Leipyric Fevers *, went not off, without a critical Access of a Cholera. In the Causus |, a highly malignant Fever, in which the Tongue was rough, dry, and very black, the Thirst excessive, the Patient comatose, and delirous, he judg'd Vomiting requisite, and Clysters: but permits not to advance nearer Purgeing than to use Asses Milk boyled. Nay he has left us the Relation of two Cases of Perfons that dyed of Fevers, after Purgeing, who, in his Judgement, had recover'd if they had been

^{† &#}x27;Emonu. L. 5. 6. 4.

^{*} Kwax. Tleogr. S. I.

Περί διαίτ όξέων. 9. 34.

That Hippocrates is vomited t. thus, all along, with me, is not a little to my Satisfaction; not for much on Account of his high Character, and established Authority, as his great Industry, and his fo generaly Founding what he advances on Observation, his simple and close Reasoning, and his singular Honesty in frankly Declareing the Refult of all his Administrations. Nor can it well be thought other than a Paradox that Dr Freind, under the Notion of Commentaryes upon Hippocrates, should publish Doctrines fo directly contrary to his; even where this truely venerable Sage has Nature apparently vouching for Him.

fetch up, ject without takeing Notice that, and bring in Vomiting, in this, as well as in the Causes the first Stadium, the Patient ordios the Symptoms naryly brings up Phlegm, very in this putrid and foul. As also Choler, tast Sta-yellow, green, black: bitter, salt, the Small sour, sharp, hot. This Operation Pox. therefore, by thus bringing to Light

give Evi- † Emonu. L. 5. S. 9, 10.

the Principles, which I have af-dence, e-figned as Causes of the Fever, and sense, of the other disastrous Symptoms, that the Truth sometimes attend this 4th Stadium, of this fometimes attend this 4th Stadium, Doctrine. gives even ocular Demonstration of the Reality, and Existence of those Principles: and the plainest Evidence that can be required, of the Truth of the Doctrine delivered in these Papers. At the same Time it lays open to us the Source of those Principles: and affords us an incontestable Argument of the Reasonableness of this Operation. But, of Further this we have yet further Proof from Evidence the Suspension and Relaxing of the the Cessa-Symptoms, if not by fuch Time astion of the the Operation is at an End, in a Symptoms very short Time after. Nay the miting. Symptoms immediately cease, vanish wholey, and the Patient is rescued, in Case the Body be, before hand, fo disposed, and the Operation fo regulated, that the Difcharge be quick, eafy, and free.

LV. Thus may Vomiting be ma- Of the naged where there is a Necessity. Finishing But the Body, at this End of the the Cure: Disease, is in bad Plight to standestablishany great Shock or Ruffle: or to ment of abide pitution,

after the Small-Pox.

abide Bliftering, Bleeding, Purgeing, or, indeed Vomiting. So that 'tis fortunate, for the Patient, where Things are adjusted, with due Wisdom, and Forefight, in the Beginning; while the Organs are tolerably free, and the Strength not After the Evacuatoo far invaded. tions, that may be requisite, are then made, the main Business of the Physician is to keep up the Hopes, and Courage, of the Patient: to govern and determin his Passions: to secure his Ease and Quiet: to guard against all Excess of Heat, or Cold: to fettle the Diet, the Drinks, and the few Medicines that ferve to regulate the Fever: to hold the vitious Matter, in the Stomach, continualy in Subjection, and under fuch Discipline that it descend not on the Habit faster than the Organs can well receive it, dispense it to the Pustules, or cast it forth by Spitting, by the Kidneys, and common Secretory Organs. ver and above this, ought, if possible, to be kept still, and quiet, in the Stomach, till the Pustules are discharged, the Organs happyly difingaged and

and freed: and, then, finaly, by a discreet Government, and a proper Diet, the Frame be somewhat reestablished, and a little new Strength acquired. After which, the Mor- This bid Matter, that hath been all this never to while quieted and suppressed in the without Stomach, or that perhaps happened Evacua-not to be put into Emotions, rife, Use and and flow forth, should by no means Benefit of be left lurking there: but effectu-the great aly discharg'd, and cast out. For, Error of if that be neglected, and the Op-themic portunity lost, there must, and dayly Experience shews us there actualy does, follow Evills, and Inconveniencyes, very numerous, and great. That Matter is wont to imbarrass the Stomach, incommode the Digestion: pollute the Nourishment: foul the Blood: offend and annoy the Organs and Parts, the Brain, the Eyes, the Lungs: furnish a Supply to Boils and other like Eruptions: bring on those called Scorbutic Affections, a Cachexy or Ill-Habit, an Atrophy, or Confumption; one, or other, and with more or less Detriment to the Frame, in Proportion to the De-Q 4 pravation,

pravation, and to the Quantity, of the vitious Matter left resideing in the Stomach. I know I shall be pardoned for being thus particular, fince, thorough Inadvertency, Omission, and want of due Care in this Regard, fo many vigorous, firm, and noble Constitutions are impair'd, thattered, and rendred ruinous for ever after. They who have not fufficiently subdued their Passions, and Appetites, who will not abide a regular Discipline longer than they lye under an absolute Necesfity, who become impatient and grow weary of all Medicines, casting them off after their present apparent Danger is over, judge but ill for the present, and much worse for their future Security and Happyness. There is indeed somewhat to be faid for those, who, in the Course of the Disease, have taken many Medicines before. They may may have Reason to be tired: and to be offended. But 'tis the highest Prudence, and greatly for their Interest, to give up and sacrifice a little present Indulgence and Gratification of themselves, for so great the books of the book of a

a future Good and Happiness. Excepting the not Calling in proper Affistance, and Advice, in the Beginning, till the Distemper be got o' Head, and the Organs and Parts too far invaded and hurt to be ever after capable of Rescue and Help. Men err not any Way fo generaly, and so fataly, as by this Neglect, in the Conclusion of a Difeafe. Whereas, this Opportunity being laid hold of, and Things at. this Juncture rightly administred, a fure Foundation is laid of future Health, Strength, and Firmness. By this Means even the Errors and Failures of the Constitution, before the Access of the Small-Pox, are commonly rectified. They have not rightly reflected on Things, and are far from being thoroughly versed in the Exigencies and Affairs of human Nature, who, from various Intimations that dayly occurr in Practife, have not learned that the vitious Matter, which, stirred, brings out the Small-Pox, is fo far from being recent, that it must have layn long quiet within: and much of it is not of later Production and

Date than the Birth of the Patient. Of which, were there no other, we have an Instance in the great and fudden Change, made by the Small-Pox, to the Advantage of the Constitution, where the vitious Caufe happens fortunately not to be too great for the Mechanism and Powers of the Body to expell. 'Tis true, under the present Modes of Liveing, and great Excess, this is not so common as was to be wished. So that farther Help, and the Affistance of Physick, is ordinaryly requisite: and, by means of this, Constitutions, that, from the very Birth, have been ailing, fickly, and infirm, are, now, by a regular Procedure, and dextrous Removal of the Caufes of those Ails, rendred found, healthy and strong: those that have been heavy, cloudy, and stupid, rendred sprightly, apprehensive, and fensible; the OF conomy being freed, the Embarrass clear'd off, and all Impediments removed. What is here faid of the Small-Pox, holds equaly true of all Fevers: and indeed of all other Diseases. If the Method used in the Cure be rational:

tional: and the morbid Principles that had layn long lurkeing in the Body, and much injured it, be not again pacifyed, stifled, and suppressed within, or only transferred from One Organ to another, but discreetly cast quite out, the Body thereby acquires an Eafe, a Freedom, and Vivacity, with which it must have been ever before wholey unacquainted: and is put into a State of Health, fo far preferable to what it formerly injoyed, as to demonstrate the Disease, however violent, and dangerous, fo managed, had proved of great Advantage to the Constitution. Of this there are Instances fo numerous as to put the Thing out of all manner of Doubt.

LVI. But the thorough Clearing, The and Rescuing the Body, from Mat-Cassing out, and ter that is noxious and morbid, is Freeing not so easyly or so suddenly to be the Body from all effected as some, who have not noxious fully informed themselves of these Principles, a great and pose. Proof has not hitherto been difficult made of the Secretion, and Fling-Work, ing out of the Blood, thorough the

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Glandules

Glandules of the Intestines, near fo great a Quantity of Matter as fome prefume: nor indeed of any Thing besides so much of a meer Mucilage as ferves, when rightly supplyed, to lubricate, and to defend them against the Depredations and Injuries of the Bile, which is ordinaryly so exuberant in them. The Re-But 'tis certain, as the Stomach is

exhausted and emptyed, there is, ciprocations beby the Glandules, and the Gastric swixt the fels and the Stomach.

Blood Ves-Vessels, provided there, for this very Purpose, in surprizeingly great Numbers, fecreted, and thrown back into it, in Quantity much more than will eafyly be imagined, vitious Matter, that was originaly fent from the Stomach into the Blood'. This is the Caufe why 'tis, commonly a Thing fo tedious and difficult to clear the Stomach. this Reciprocation, betwixt Blood, and the Stomach, there are Proofs that are, I think, not to be withstood, and I wish this was a proper Place to produce them in. I cannot however forbear giveing

^{*} Conf. p. 127. Supra.

here some Hints, that every ingenious Inquirer may himself easyly carry on, and improve. By Means of Juice of Afarum, and other strong Vomits, given ordinaryly to Persons mad, and melancholy, and frequently repeated: by the Vomitings at Sea, continueing in some Persons for several Weeks succesfively: and those of Women dureing Breeding; are made Discharges of Phlegm, and Choler, commonly in so great Quantity, that the Stomach is not capable of containing a fifth, nay not perhaps a tenth Part, of it, at once. Then Persons mad, and melancholy, are kept to a fpare Diet: and those others mention'd that are fo fick, and almost continualy Vomiting, have not an Appetite, or Inclination to eat; especialy so much as to produce any confiderable additional Indigestion. Nor could fo great Quantities of it be cast up from the Stomach were not the Matter continualy fupply'd from elsewhere: and the Habit drain'd, and empty'd into that Organ. But there are, in Nature, Accidents that give yet plainer BOB

plainer Evidence of this. Nothing is more common than for the Gout to be ftruck back into the Stomach: or the Swelling Pain and Inflammation of the Foot ro retreat, and thereupon a Weight, Pain, Heat, and fometimes a Sickness, suddenly to come on in the Stomach. 'Tis not unufual for the morbid Cause to return thence down again to the Foot: and perhaps afterwards to afcend up into the Stomach. Like Reciprocation's fometimes happen betwixt the Stomach, and Limbs, in Rheumatisms: and in the Dropfy. So likewife Hæmorrhoidal Pains ceafing, the Stomach becomes uneafy: and recovers it felf upon the Return of those Pains to the Hæmorrhoids. Boils, Pustules, and other Eruptions, fuddenly falling, and becomeing less painfull, the Stomach is immediately put into great Disorder: and, this remitting, the Eruptions rife anew, and the Pain attends in them as before. Thus Things happen frequently in Nature; but, when the morbid Matter is thrown, into the Stomach, from the Limbs, and

and Surface, by the external Application of repellent Medicines, 'tis ever with much greater Injury to the Body. What renders the thus flinging back of peccant Matter, whether by Nature, or Medicine, into the Stomach, the more troublefome, and dangerous, is, that the Tumults in this Organ extend themselves to other Parts: and in particular to those immediately concerned in the Preservation of Life, and Sense, the Heart, the Lungs, and Brain. I shall here only add that we have a plain and unquestionable Proof, of Passage and Conveyance out of the Blood into the Stomach, from Tryals made on Brutes. For, by thefe, we learn that Vomitive Tinctures, injected into the Veins, even those of the Hind-Leg, and at the greatest Distance from the Stomach, produce a Sickness, and Vomiting, as great, and effectual, as if given directly down into the Stomach. plentifully noxious Principles, depraved Choler, and Phlegm, are fometimes existent in the Blood, passing, or indeavouring to do that, we

we have but too many Evidences.

I shall here take the Liberty to mention only one, in the Cafe of William Emmett, Esq; In a very severe Fit of the Strangury, that he had a few Years ago, his Urine was the most heated, and the Biliose Salts in it the most numerous, that I have ever known. In August 1716, after a cruel Fit of an Ague, he began to void Phlegm, by the Urinary Passages, in considerable Quantity. Which continued for four Months: and then, intermitting fix, it returned again in June 1717. From this Time forward, increaseing dayly, and continueing, with little Intermission, till the Time that I was confulted, which was the Middle of January following, he was then come to discharge, in twenty four Hours, above two Quarts of Phlegm, excessive thick, heavy, and tough; a Thing fo extraordinary as to be hardly credible: but yet very certain, and Matter of Fact. In this Cafe, the Blood-Vessels, being charged with Phlegm, and there being not Reception for it back in the Stomach, which was likewife

likewise overcharged with it, but had not the Power to reject and cast it either up, by reason of a Stop made in the Stomach and OEfophagus by Wind: or down, He being more than usually costive for the Time; Nature took the only remaining Courfe, and pass'd it, thorow the Blood, off, by the Kidneys, and Wayes of the Urine. It may not be unfeafonable here to add that by Means of Oyls, and unctuous Medicines, and by proper Discharges of Phlegm, in very great Quantity, forth of the Stomach, and Guts, his Urine was, in a short Time, reduced to the common and natural State, and pass'd easyly and freely: his Constitution was by the fame means, restored, and he recovered a perfect Health, and Vigor, which he had not before injoy'd for near twenty Years. Upon the Whole, 'tis plain that, The as the Vitious Contents of the Blood de-Blood are all first dispens'd into it and Dif. from the Stomach, so upon a ra-eases cutional kindly and effectual Clearing red, by a of that Organ, Room being fucces-Discharge fively made for the Receiving back of the Stoagain into it those vitious Contents, the Gastric Vessels throw them in thither. By which means the Blood is gradualy depurated: the Constitution rescued: the Body freed from the Causes of Diseases: and the Health finaly re-established.

vacuation: and of the Caufe.

ALLE BE

No Dif. Nor can there be any other Way ease realy that is natural and sure. but by E there remain hurtfull Principles within, the Patient will be in Dan-Removal ger: under frequent Alarms: and those Principles will assuredly hurt as often as they happen to be excited. That the Propertyes of each Sort of Matter are inseparable from it, is a standing and unalterable Law of Nature: and, whereever any Sort is present, its Propertyes continually attend it. So that while there is Matter, vitious, and unnatural, in the Body, 'tis fure to annoy, or to indanger it, till cast out. Nor is it possible to imagine how the Parts and Organs shou'd ever act freely, and acquit themselves rightly of their Office, till what impedes and incommodes them is removed. Tot about ylovit

LVII. 'Twere to be wished that of Althey who talk of Sweetning the terant Medi-Blood, of Corroborating and Restore-cines. ing the Tone of the Nerves, of Raiseing the Animal Spirits, with a great deal more of the fame Sort : as also they who lay so much Stress on those call'd Alterant Medicines, and prescribe such Quantityes of them, would well weigh this: and confider what Diftempers they realy cure by them: whether, at best, they do more than stunn, and appeafe the Symptoms: and whether those Symptoms, do not, in a little time, recurr: or others, perhaps worse, arise in their stead.

Part of these Medicines, and particularly the whole Tribe of Absorbents, amongst which are those u- Of the surfuely called Testaceous Powders, bent: and serve, in the great Chronic Cases, Testaceous for not much more than to amuse. Medicines. Tis true they take up, into them, the Biliose Salts, as well the genuine, as the extraneous. The Action, of as many of these as are so taken up, must be impeded for R 2 the

the Time. Now, where a few of those Salts have considerable Effects, as in the tender fensible Bodyes of Children, thefe Powders are perhaps capable of Reduceing and Entertaineing them: and by that means, of Gaining a Truce, and some Respit to the Patient, by their Suspending those Effects. Which being the most considerable in the Stomach, the Capitol, and chief Place of their Residence, in Checking their Action and Emotions there, these Medicines in some Degree shelter that Organ, and restrain their Descent thence on the Habit. By that means they fomewhat leffen the Pains, Inquietude, Febrile Affections, and the other Symptoms, that they, being transferred thither, are wont to bring on there. But their most sensible Operation, and what chiefly has recommended them, is their allaying the Tumults and Disorders of those Salts in the Stomach. 'Tis, particularly, on that Account that fuch Girls, as haveing a fine quick Perception, happen to be annoyed by them, when exuberant there, of meer Instinct, are wont the

wont to eat Plaister Chalk, and other Things that have the fame Effect with the Testaceous Medicines. Nor is there Reason to allow a frequent and continued Use of these, any more than of those. 'Tis true, Crab's-Eyes, Pearl, and a few others of the better fort of them, may be given, as they imbarrafs, and curb the Insults of those Salts. But, if they be not in due Time cast out again: and, along with them, the Salts that they so captivate, which is the only good End of Giveing them, the whole Administration is not only a mere Delusion, but a Detriment to the Body. This is what all my Inquiryes and Accounts concurr in. Nor can that be thought strange, when 'tis confidered that, without Evacuations, those Salts, thô fo captivated for the Time, are as much in the Body as ever: and will, fooner, or later, again free and difingage themselves; then produceing anew the same Effects that they did before. In grown Persons those Salts are ordinaryly in great Number: and Superior to the Power of any ordinary

dinary Dose of the Testaceous, and other absorbent Medicines. In which Cafe they ferve only to clog and incommode the Stomach: impede the Digestion, as they take up some of the Salts that are the Instruments of it: render the Body'costive: incrassate and thicken the Fluids, repress the Heat, imbarrass the Action, hinder the Motion, and Distribution of them. The Effects, fet forth, are fufficiently evident in Others: but much the most in those who, having the Chlorosis, or Green-Sickness, to curb and appeale the redundant Bile, which, in that Cafe, is otherwise perpetualy Preying upon and Molesting the Stomach, take the greatest Quantity of Things absorbent. Those Parts of these Medicines, that happen to get into the Blood, are apt to make Obstructions, clog and charge the Vessels and Glandules, and, with fuch Phlegm as may happen to attend, furnish Matter for those Concretions that pass ordinaryly by the Names of Stones, in them. This cannot, by any means, appear strange to those who know

know that these Medicines constitute finally a sort of Lye; or rather a Plaister *, in the Body: † Lixiand those, who are not aware of *Gypsum. that, have little informed them-selves of the Nature of them.

LIX. The Jesuit's Powder is a Of the great Absorbent; thô, as 'tis withall Peruvian Bark: and Stiptick, and a potent Astringent, occasionaly as will be manifest to those who of interrightly observe all its Actions and mitting Propertyes, it hath the Effects, recounted of the former Tribe, in a much higher Degree. But, unless in Youth, or where there is great Vigor of Constitution, the Ills that follow upon it, if given in Quantity, and not in due Time cast forth again, are, in Proportion to its higher Powers, numerous, and great. 'Tis true, by means of it, intermitting Fevers may be fometimes repress'd: and the Principles that cause them, stifled. In which Cafe Lookers on, observing that, will not fail to be pleased. But they will be hardly capable of Frameing a right Notion of the Pangs, and Distress, that some Patients

tients fustain afterwards; especially those who have taken much of it. For, by this means, not only the vitious Salts, that, flowing before into the Blood, caused the Fever, the Acceleration of the Pulse, and too intense an Action and Sense in the Parts, are now restrain'd and captivated in the Stomach, where they bring on ordinaryly an Uneafyness, a Sense of Harshness, and great Oppression: but so many of the legitimate and natural Salts likewise, that, being thus defrauded of the Principle to which their Heat and Strength is owing, the Parts become chill, languid, and feeble; those Accidents being doubtless further heightn'd by the Descent of Phlegm upon the Habit; which this Medicine is not dispos'd ordinaryly to hinder. All which rightly confider'd, it cannot be thought strange that Paralytic and others of those call'd Nervine Symptoms, should so frequently follow an over plentiful Administration of this Medicine. In some a Dropfy enfues: in others Affections of the Breast: in others a Deafness, Noise of the Ears, Dizzyness,

or other Diforders of the Head. The People would not have the general Prejudice, and Aversion. they have, to it, wholey without Cause. The best is, in a right rational Practife there will be feldom Occasion for it: and, when there happens to be any, after it has done its Business, it ought, with the Salts it has taken up, to be carefully turn'd out again. Indeed Nature her felf sometimes does this Part: and, of meer Abhorrence of what is so offensive to Her, flings it down in a Looseness, frequently with great Resentment and Præcipitation. Where it is thus thrown forth effectualy, and withall kindly: or where the Affair is rightly tranfacted by Art, the Patient cannot fail of Redress, and Benefit. Whereas if the vitious Salts be left only intangled within, unless they happen to be in very small Number, or the Organs and Parts in fuch Vigor as to cast them off, sooner or later they will difingage themfelves, and again act a Part to the Disadvantage of the Patient, in fome Way or other. Then, the Medicine being likewise injurious

and annoying, the Patient cannot be eafy, or fafe, till that be flung out too. Nor is this attended with the Diforders and Inconveniences that ordinaryly attend the other Method. I am aware it does not well comport with the common Notions: and for Purgeing, 'tis generaly disapproved; chiefly because, where this Medicine runs down, in a Looseness, the Ague ordinaryly persists, and becomes sometimes more vehement. Which yet is in Truth, an Indication, if not for Purgeing, for fome other Evacuation; fuch a Looseness never happening but where the noxious Matter is in unusualy great Quantity in the Stomach. This Organ being, in that Cafe, molested by the Medicine, the vitious Matter, that is fo exuberant, there, rous'd, thin'd, and Part dispatch'd into the Blood, the Symptoms must thereby be needs inhans'd; the more because Wind, clodded Excrements, and Phlegm, abounding usualy in the Guts of those subject to this Distemper, interrupt the Passage thorow the Guts, and concurr to determine the peccant Matter towards

wards the Blood. So that the Looseness is merely an Accident: and that, in this Case, the Disease becomes more urgent, is owing to those Checks in the Guts, and to the Quantity of the noxious Matter being fo great as not only far to exceed the Power of any reasonable Dose of the Bark, but in the Contrasts with it, to overflow, run down, and so hurry faster than before into the Blood. On which Occasion, Oyls, given, facilitate the Descent of that Matter thorow the Guts, incrassate, guard, and serve to keep it off the Frame. A proper Clyster, administer'dat the same Time, by fetching forth the clodded Fæces, Wind, and other Impediments of the Descent, contributes greatly to the same Purpose. With fuch Precaution for free Passage, after haveing given the Bark plentifully one Day, where this Medicine is thought requifite, a Purge may, ordinaryly, be fitly given the next. Nor have I ever once feen the Ague-Fit return upon it. By proceeding after-wards with the Use of Oyls, or the Bark, if that be defired: and, repeating the Purge, as often as there

there is Occasion, both the Bark, and the morbid Principles, may be disposses'd: and the Constitution rescued, and happyly secur'd; a Thing hardly ever to be expected in the other Way. Where the Symptoms shew those Principles to be much vitiated, or in fuch Number as neither eafyly to be captivated, and abforb'd by the Bark. nor fafely fent down thorow the Gutts by Purgeing, a proper Vomit ought to be given. This dextroully managed, is of mighty Service: nay commonly at once putts a happy End to all the Symptoms; at the same Time that it displays + both the Nature, and the Source, of the Principles that cause them.

Of the Bitter Medicines. LX. Bitters are a Sett of Medicines now much in Vogue, but of Operation quite contrary to the foregoing: and yet, which is pretty remarkable, these are, by some, given, in the same Course, with Absorbents. By which the good Effects of both must be frustrated: and perhaps the bad increased. As Bitters sometimes heighten the Appendix of the same course of

[†] Conf. p. 89, 228 & 229. Supra.

petite, they are wont to please and amuse the Patient: as also those who direct them; if they have not sufficient Infight into Nature, do not fee thorow the Amusement. and are not rightly apprized of the Reasons of Things. The Stomach fomewhat incited and irritated by them, where it happens not to be overloaded, and has due Strength and Sense, as in younger Persons, throws them forth: and perhaps, along with them, Phlegm, or fomething elfe that was before offensive to it. By which Means that Organ is eas'd of fo much; whereby an Appetite is sometimes brought on, and Way made for Reception of Meat in the Stomach. But this is done at the Expence of the whole Frame; both the Bitters, and the vitious Contents of the Stomach that pass out along with them, being flung ordinaryly into the Blood, and fo dispers'd over all the Body. By which Means indeed the Oppression and Sense of Luggage in the Stomach, and perhaps the Diforders that accrue thence to the Parts above.

above, particularly the Head, are lessen'd; but the Blood is heated, foul'd: and Life, and the Constitution, are brought into much greater Danger than before. Besides that the interior finer Parts, difingaging themselves of as much of this vitious Matter as they well can, by all Wayes, fling some of it back into the Stomach †; where it becomes as molesting as before. Which is the Reason that, in this Method, the Patient has ever Need of Remedyes: and never done. older People, where the Senfe of the Stomach is ordinaryly less, and the Phlegm and Luggage in it more, Bitters cannot have that feemingly good Effect that they accidentaly have in younger. But they have commonly fo many more bad ones, that he must be very inobservant that persists in the Administration of them. The Reason of which must needs be plain to those who are capable of Forming a Judgement of the State of Things under these two so different Cir-

[†] Conf. p. 236. Supra.

cumstances. Tis true Bitter is a main Ingredient of the Bile; on which Account there may happen to be some small Claims of it. But they must be very rare; so many of the Ills, Inconveniencyes, and Disorders of the Animal OEconomy, ariseing from the Redundance of the Bile.

LXI. Of Salts, the Urinous, and con-Ammoniac, are the best fuited to cerning the Salts those that are naturaly in the Body. used in Thô they, being likewife an In-Physick. gredient of the Bile, when this steel. proves to be too exuberant, are very noxious and injurious. the other Salts, Tartar, Sal Prunellæ, the Vitriolic Salts, and particularly those in the ordinary Preparations of Steel, are much more fo: and do Mischief without End or Meafure; especialy in those Bodyes that have Phlegm, and other peccant Matter, in fuch Quantity, as to be superior to the Action of these Salts. 'Tis true, where that Matter happens to be less, as in Children, some Women, Men of the finer and more delicate Constitutions, and fuch who cannot bear much

much

much of it, these Salts may do Something that may please; which yet were much better, more eafyly, and naturaly done another Way: as also, indeed, more safely, and without any of the ill Consequences that ordinaryly attend the Salts. They, who give these Salts, do it upon a Notion that they attenuate: and open Obstructions. But this, like other superficial Speculations, ferves only to mislead, and render them pertinacious in the wrong. These Salts do indeed contribute to the Dissolution of the Matter contained in the Stomach. But, being unnatural, in greater Number, and of more Power, than the ordinary Salts there, they do it with that Bustle, Insult, and Annoyance of the Stomach, that this Organ, in its own Defence, casts the Salts, fo annoying it, along with that Matter, thence, before it be sufficiently dissolved, in great Hurry, into the Lacteals, the Capillary Blood-Vessels, and Glandules, of the Kidneys, the Liver, and the other Viscera; whereby the old Obstructions, instead of being opened, are

are confirmed, increased, and new ones form'd. Then there is a Flush made into the Blood: a febrile Commotion, or other great Disturbance, excited there, and a Confusion, in the Fluids of the Body, too great, and in Wayes too numerous, for me to fet forth in this Place. Nor would this Practife be ever born, were there not Delusion in it: and fomething happening that gives the Patient some little imaginary Satisfaction, for the Time. For, the Load in the Stomach, the Cause of Oppression, of Faintness, of Clouds, and Disorders of the Head, being stirred, and wrought upon, by the Salts, lightned, and some of it cast on other Parts, thô there it be much more incommodious to the Powers of the Body, dangerous to Life, and farther out of the Reach and Way of Medicines, yet 'tis, for the present perhaps, less perceived: and those first Symptoms, of course, relax, and abate, for a while; which is what the Patient, feeing Nothing forward, and not knowing what is to infue, will be apt enough to be pleased with. But

But they, who are capable of penetrating farther, and possessed of a Tenor of Mind that a Man of Integrity ought, will regard the Future as well as the Prefent: and rather study faithfully to serve, than merely thus to pleafe. For those flight airy Hopes soon vanish; but the Ills, that follow, hang long, heavy, and hard. So much of the vitious Matter as is, by these Medicines, flushed into the Blood, and happens not to get forth by the ordinary Emunctoryes, is thrown and impacted into the Vessels, or fome Limb: or, perhaps the Brain, the Lungs, or fome other Bowel; there to lye till the Texture of it be vitiated: and, this finaly failing to act its Part in the OEconomy, the Whole is brought into Ruine. Unless in Youth, or where the Bowel happens to have Vigor fufficient to fling at least fome Part of that Matter off again. In which Case 'tis ordinaryly taken up into the Mass of Blood: and, except what happens to escape by the Kidneys, is discharged, by the Gastric Veisels and Glandules, back again into

into the Stomach +; where it will not only play its former Game, and act over the old Part anew: but, joyned by the Indigestion, which has fince happened, no Care being taken, in this Method, to prevent that, 'twill become more unruly and troublesome than ever. Considering this, the Obstructions. and other Injuryes done to the Frame, they who shall attempt the Cure, for there will be new Occasion, and probably greater than ever, afterwards, will have on their Hands a Task, vaftly more difficult and heavy, than they possibly could, had the Patient stood to the Courtefy of the Distemper, and taken Nothing at all:

LXII. Those of Bath, and the of Mecommon Mineral Waters, where the dical Waters vitious Matter in the Stomach ters. happens to be in little Quantity, may be superior to it: and, tho they sluice it, by Degrees, into the Blood, they may carry thence out again so much of it, along with them, as to do little Hurt,

† Conf. p. 236. Supra.

and

and perhaps some Good. But, where that Matter is in Quantity fo great that the Organs and Veffels cannot, as 'tis from Time to Time cast into them, well receive, and difmifs it forth, the Good must needs diminish, and the Hurt increase, in Proportion. The Reason of which will be fo evident, to those that understand the Structure and Mechanism of the Body, or attend but to fo much of it as has been occafionaly fet forth in thefe Papers, as to need no Explaining here: and they who go to Bath, and Tunbridge, Drenching themselves with Waters, so freely as some are wont, whatever their Philosophy may be, their Courage must be allowed very great. They venture their Persons, and Health, with much Frankness; especialy if their Bodyes happen not to be in Condition: or there be not due Way for the free Passage of those Waters.

Of Me- LXIII. Many of the Vegetable dicines out Bodyes in common Use as Alterof the Verrants: and the Juices, Waters, Salts, Kingdom and other Preparations of them,

are ungratefull to the Stomach +, disturb and incommode the Digestion. doubt to

LXIV. The Animal Substances, of those and the Preparations of them, if out of the discreetly chosen, and rightly ad- Animal ministred, are fomewhat more suit-dom. able, natural, and amicable: but none of them, that I know of, of very confiderable and extensive Use.

LXV. But Minerals, Metalls, and of Min all Native Fossils whatever, are nerals. wholey unfuitable to the Organs, and all the constituent Parts of them. On which Account it is that they are unnatural: and confequently, if given meerly as Alterants, and to abide in the Body, capable of doing little, besides what is mischievous, dureing their whole Stay there; unless under a very wife Discipline indeed.

LXVI. For, under fuch Difci- The pline, feveral of those call'd Alte-true Use of rant Medicines, may be safely used: Alterant nay and rendred, in some Degree, Medi-

beneficial. But every discreet Pre-

[†] Conf. p. 72,73. Supra.

fcriber will make Choice of those few that are innocent, amicable, and tractable. For fuch there certainly are: and these may be made highly ferviceable, in Subordination to those that are the Instruments, and carry on the great and principal Work of Evacuation, and Discharge of what is noxious, and ill, out of the Body. Those are indeed, in some Measure, needfull, in the Intervalls of that Work, Those Intervalls are sometimes neceffarily long: and that Work is not to be ever hurryed on: but performed with Judgement, at fuch Times as the Organs are disposed, and Nature not ingaged in another Way; of which I have had Occafion to give Instances above, treateing of the Small-Pox.

LXVII. The Alterant Medicines,

of those LXVII. The Alterant Medicines, which are which the most kindly assist in that commonly Work, are, either such as contribute ludged cordial: to the Animation and Support of and of the Body, during the main Admackic. ministration: or else such as dispose the vitious Principles within the more easyly to be acted upon, and thrown forth. To the former Pur-

pafe

pose are serviceable, besides proper Wines, and a convenient Diet, those compound Waters, that are gratefull, and perfectly agreeable to the Falate, and Stomach +: and the Vegetable and Animal Volatil Spirits that are so too. To the same End likewise the more simple gratefull warm Bitters, given in little Dose, now and then happen to contribute fomething. But much more, those Things that confist of Parts that are brisk, active, and fubtil; provided they comport rightly with the Stomach + . Such are Rue, Scurvy-Grafs, Horse-Radish, Mustard, Onions, Garlick, and Affa fætida

cond great Use of Alterant Medi-ant Medi-ant Medicines, these last recited gently and cines. placidly attenuate and raise the Phlegm and other Lumber of the Stomach; rendring it more liable to be wrought upon, to slow, and be cast out by the Evacuant Medicines. But, of all others, Mercu- Of Carius dulcis, under a discreet Govern-lomes, ment, is much the most eminent and noble Agent, in this grand Affair, that hath ever hitherto been found out.

t, t. Conf. p. 72. 73. Supra.

S 4 LXIX.Of

Of Ve- LXIX. Of the great Service and Use of Oyls, their correcting the Errors, and reclaiming the Exorbitances of the Biliose Salts, and their appeaseing of Fevers, Inflammations, and Pains, somewhat hath They been offer'd already † Another

dispose the very considerable Property they Body to be have, which is to dispose the Body and so to Solubility. As most of the Ills kindly as of Life proceed from Wind, Stagges; ren-nations, and Luggage, in the Stodering mach and Guts, Nothing contriposational, butes more to the kindly Removeal and suc- of them than these Oyls. They cessfull.

fmear over, and lubricate the Guts: fmooth the Way, and facilitate Paffage through them. Then their Manner of Action is very different from that of most Purges. For they do not incite and exasperate the Biliose Matter, or raise it into Fumes, which many of the common Purges do: but, quite contrary, temper the Acrimony of that Matter, allay and check its Emotions, Effervescencyes, and Fumes; which being wont to make Stops, greater than Natural, in the Guts, and so turn the vitious Matter in

† P. 80. Supra, & Segq.

them cross-wayes into the Blood, those Stops are hereby removed. and the Contents of the Guts left at Liberty to pass forth; these Oyls, by that means, perfuing the Intention of Nature, and doing what she her self would, were she not impeded by those Obstacles. Besides, whereas Purges usually thin the vitious Matter in the Stomach, and Guts, and so dispose it to pass the Lacteals, † Oyls, as they somewhat incrassate, hinder it from pasfing those Vessels, and thereby save and preserve the Frame. For which Reasons these are not followed by the Feebleness and Sinkings, any more than by the febrile and other Diforders that the ordinary Purges, and that even such Stools as happen naturaly, in some great Distemper, and particularly the Small Pox, are sometimes wont; the Oyls as well defending and sheltering the Stomach and the Guts, which Purges, not rightly guarded, are fure to offend and irritate, as fcreening and fecureing the Habit. Nor ought it to be pass'd over, that many Purges, par-

[†] Conf. p. 138. Supra.

particularly the Aloetic, and all that are bitter, as likewise all that are faline, and those that consist of Parts that are penetrant and luscioufly fweet, fuch as Manna, make Addition to, and increase the Bile; both the Muriatic and Saccharine Salts, as well as Bitters, being Ingredients of that Juice. But Oyls, given, happyly disappoint and prevent the ill Effects of such Purges, by the very wayes that they frustrate the Insults of the Biliofe Salts. when redundant, or depraved: and indeed of all other over-active Principles whatever; even of Poyfons; there being no Antidote, known, of Power equal to theirs. Indeed, if given, in Quantity, with, or near them, they elude the Operations of those Vomits, and Purges, that have their Effect by stimulateing the Stomach and Guts; fuch as Vitriol, the Purgeing Salts, and the like. For Oyls protect the Bowels, take up and incorporate with the active Parts of those Medicines, as they do with the Biliose Salts: and, by that means, baifle and defeat their Action. With Purges

Purges that are more benign, and proper, Oyls agree perfectly well: and may be fitly given at the fame Time. Or, which Method is ordinaryly preferable, if they be given before, at due Distance, Nothing fo certainly predifposes the Stomach and Guts to be eafyly, fafely, and effectualy wrought upon. For, by their taking off the Stops, and fo disposeing what is contain'd in the Stomach and Guts to Motion, and Progression, they withdraw the grand Impediment of a right, kindly, and fuccessfull Evacuation. 'Tis indeed chiefly by the Assistance of Oyls that, in the Course of my Practife, I have, in some Cases, pressing dangerous and great, that have been owing to vitious Matter in Quantity proportionably great, been enabled to make fo large Difcharges, and, in Confequence thereof, to produce Changes, to the Advantage of the Patient, fuch as could never have been hoped for from any other Attempts: and this too without any Ruffle, or Difcomposure, of Persons, in the most nice Cases, of the most tender Constitutions.

stitutions, and even those who could not bear Purgeing in any other Way. Which I am the more forward to fuggest, that those candid ingenuous Gentlemen of the Faculty, who aim, not at Amusements, and Palliateing, but the real Good and Redress of the Sick, and the effectual Cure of Diseases, may turn it to their Service, and to the Promoteing of fo truely noble a Oyls a-Purpose. What adds still more to

Wayes hurifull.

micable to the Recommendation of these Oyls and no is that they are of a benign and amicable Constitution. Let those, who have little true Knowlege of Nature, or of the Body of Man, fancy what they please, Oyls may, under unskillfull Management, be rendred ungratefull, or unpleasant to the Patient: but can never pos-fibly, in any Case, be themselves realy injurious. Which I note on Account of a Charge, very unphilosophical indeed, but very frequent in the Mouths of some Persons, that Oyls relax the Bowels. Whereas, in Reality, they do the quite contrary. For, by their allaying Wind, that would otherwise stretch relax

relax and injure them, they prevent the Relaxing of the Bowels, the Stomach, Guts, and Vessels. They contribute to the same good End by their foftening, liquateing, and promoteing the Descent of hard clodded heavy Fæces. Indeed the Use of Oleose and Unctuous Medi-sionaly of Nature her felf, as the most proper for the Se-Defense of the Body; particularly curity of against the Attacks of the Biliose els and Salts; there being placed, with the Parts: highest Wisdom and Care, Fat, in great store, as a Guard, on all the Parts where these Salts are most abounding and frequent. Thus, befides that Fat which is affixed on the Stomach, the Guts, and the Liver, the Omentum, spread over and covering them all, confifts intirely of Fat, with the Vessels and Membranes that fupply, and contain it. Nor does this fo remarkable a Part appear to have any other confiderable Use than continualy to anoint over, and fecure those Parts that carry fo great Quantityes of these Salts. A like parti- as also cular Care is taken to bestow Fat, for Pro-111 Nouvilb-CHIL

ment, the in plenty, upon the Mesente-Distributy, and upon the Kidneys, thotion of the ry, and upon the Kidneys, tho-Fluids, rough which they are continually and Glan-passing: and, more or less, upon all dular Separts of the Body; there being none to which these Salts have not

Access, in larger, or smaller Number. Nor do any of them fuffer, to great Extremity, till these Salts have prevailed fo far as to confume and dissipate the Fat; so that the Parts themselves, deprived thus of their natural Shelter and Guard, are exposed to the immediate Corrofions and Injuries of the Salts. 'Tis for this Reason that, in our Diffections of the Bodyes of Perfons deceafed of many of the great Diseases, especialy the Chronic, we find them fo strangely emaciated, and the Parts, mentioned, fo wholey despoyled of their Fat. Indeed Nothing is more common than that the Omentum, the main Fund of the Fat, be reduced to a meer Skin: nay frequently perished, diffolved, and quite gone; Life lasting, and the Parts holding out, no longer than that Vital Oyl, which was the Security of both. Nor

can there be any Thing so likely to restore the Fat, thus impaired, and furnish it forth anew, as Oyls and Unctuous Things; if they come not too late. On which Account probably it is, that Hippocrates represents them as restorative f. I cannot well forbear takeing this Occasion to mention another very considerable Use of the Fat; which is to affist the Glandules, and Secretory Organs, in the Execution of their Office. This it does by anointing and suppleing of them, rendring them pliable, yielding to the Matter passing them: and so favouring Secretion. In which therefore they fail when the Stock of Fat is exhausted. And, in Opening lean and confumptive Bodyes, we ordinaryly find the Glandules of the Mesentery, and other Parts, obstructed, become stuff'd, tumid, and Scirrhous. As this is one Accident by which Death is apparently hurry'd frequently on, fo Nothing can contribute more di-

[†] Komsing. Hippocrat. wepi Hal. Sea. 50.

rectly to the preventing it than Oyls and unctuous Things; which afford a proper and natural Supply of that Fat. In this their Affistance of the Glandules, Secureing of the Passage of the Nourishment thorow the Lacteals, Facilitateing the Distribution of the Fluids, and in their Defending the Parts from the Depredations of the exuberant vitiated Bile, the grand Instrument of Death, we have fo many Instances of the high Excellence and Use of these Remedyes.

cilages.

of Mu- LXX. Nature has likewise made choice of Mucilages for her Aid, and Protection. With these she has lined and fmeared over the Biliose Ducts of the Liver, the Insides of the Stomach, Guts, Urinary Passages, and indeed all the Vessels of the Body; but those chiefly in which the Biliofe Salts most abound. 'Twas the Observeing of this that led me into the Use of Mucilages, Pulps, and Mucilaginous Substances: and 'tis most certain they contribute fomething to the imbarraffing of the redundant Biliofe Salts, as well as fecureing the Parts against their Action and Infult. Then they

are of the Nature of Nourishment, gratefull, and friendly to the Body; to which, they, who have due Tenderness, and Care for the Preservation and Wellfare of it, will, in the first Place, alwayes have Regard, in the Choice of all Medicines whatever.

LXXI. Where the Bilisse Salts of Abwander, stray, elude and escape sorbents, the Action of the Evacuant Medicines, something may be done towards the preventing that, and the sixeing them, by the Absorbents, of the more innocent and gentle Kinds: or by small Doses of the Jesuit's Bark.

LXXII. Opiates contribute to the ofoldame End, as they diminish the Sense piaces. of the Stomach †, render it less lyable to Irritation, to toss and fling about the vitious Biliose Salts, that are wont to offend that Organ, and indeed the whole Habit, when cast upon it.

Alterant Medicines, under a right Conclusion and intelligent Conduct, be rendred fay con-

Alterant Media in cines

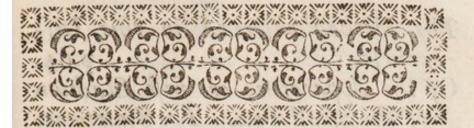
[†] Conf. p. 128,129,130 Supra.

in some Degree subservient to that great and necessary Work of Casting forth the Principles and Causes of the various Diseases Errors and Disorders of humane Nature; so that the Organs, dextroully rescued from what annoyed and incumbred them, may be at Liberty to act to execute and perform each their proper Part and Office, without Imbarrass or Impediment. But I think 'tis made fufficiently plain that they, who depend mainly upon Alterant Medicines, and use them as Principals, will, to fay no worse, not have any great Reason to expect they shall hurry on over fast in the Extirpation and Cure of Diseases. fame Folder they d

that are wont to offend that Ore

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