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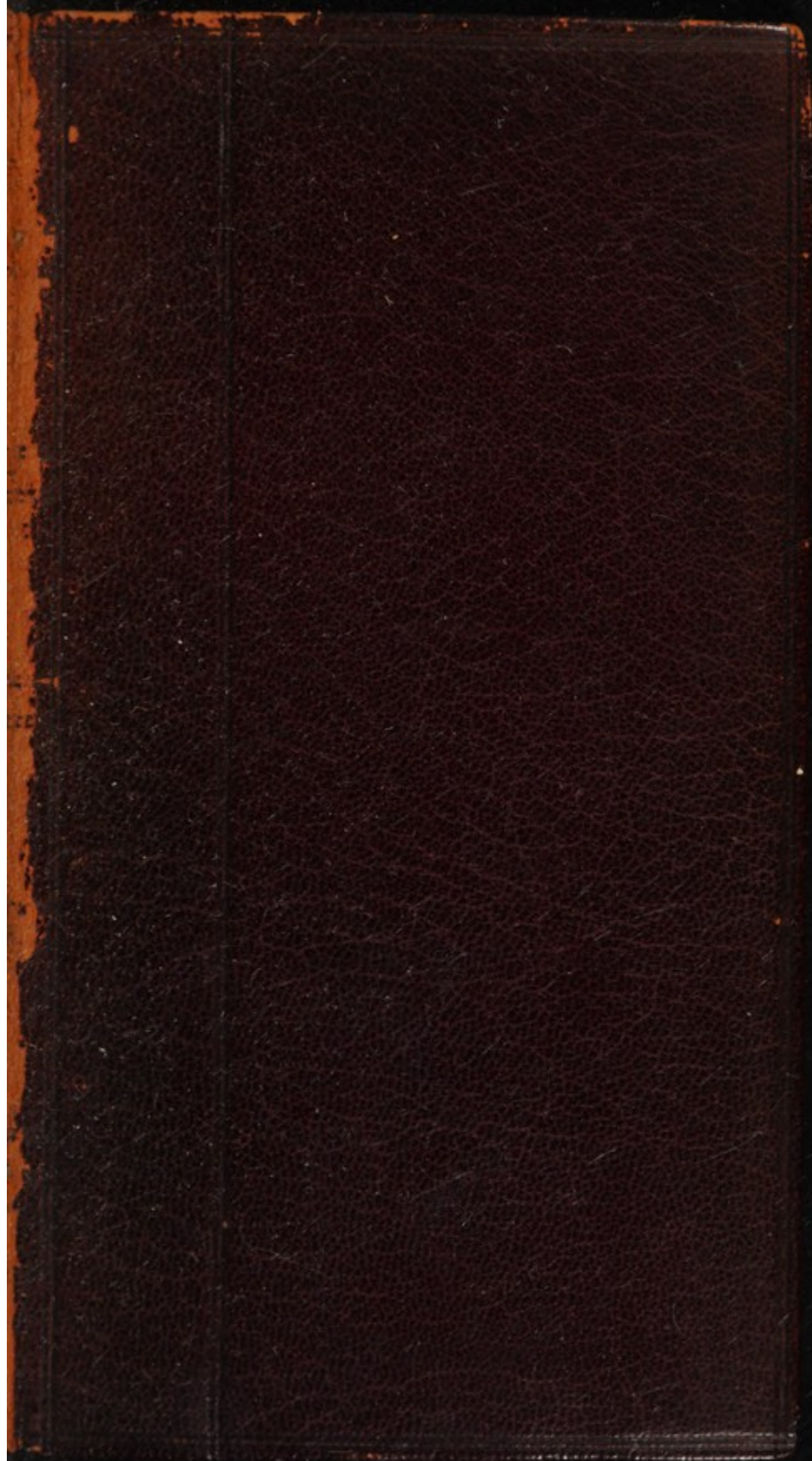
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DISEASES
OF
INFANTS

HARRIS

1693



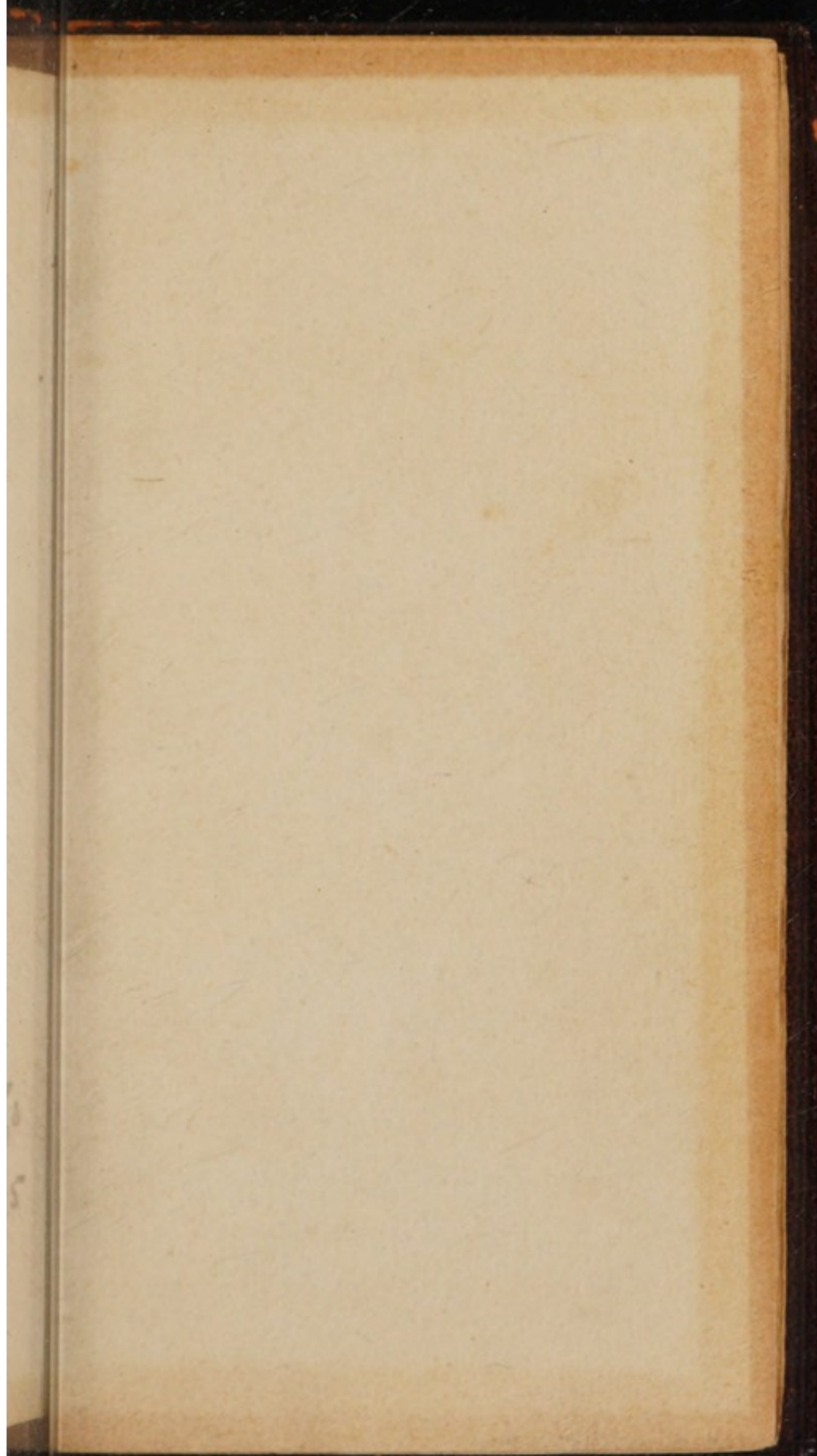


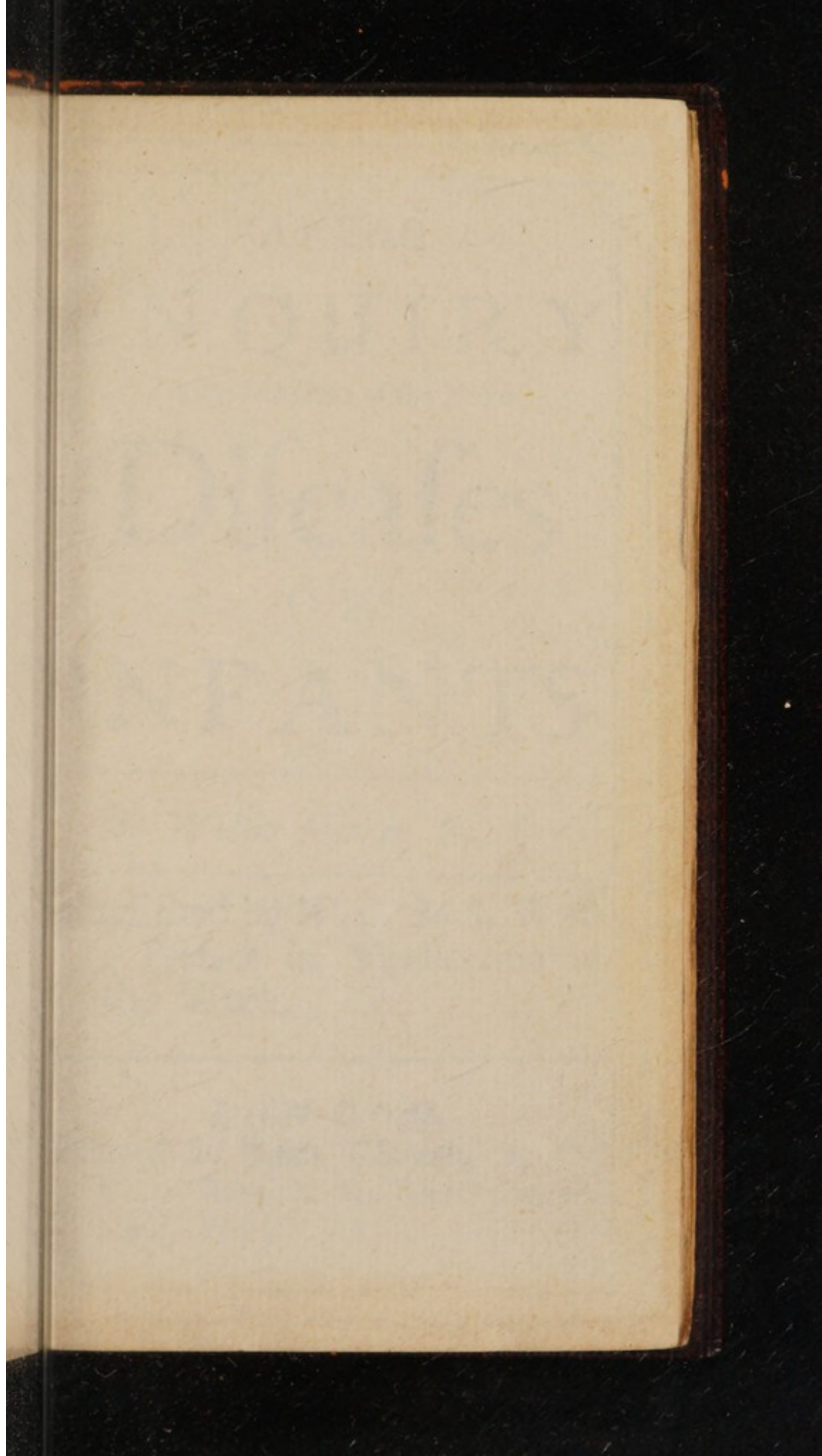


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An Exact
ENQUIRY
Into, and Cure of the Acute
Diseases
OF
INFANTS.

By *Walter Harris*, M. D.

Englified by *W.C. M.S.* With
a Preface in Vindication of
the Work.

L O N D O N,
Printed for *Sam. Clement* at the
White Swan in *St. Paul's Church-*
Tard, 1693.

THE HISTORY

DISEASES



By William Harvey, M.D.
Enlightened by W.C. M.D. With
a Preface in Vindication of
the Work.

LONDON:
Printed for John Churchill at the
White Horse in St. Paul's Church-
yard, 1693.

TO THE
RIGHT HONOURABLE,
Margaret
Countess of Roxburgh, &c.

M A D A M,

THere's none I can so safely
ly come unto for Shelter
to my first Labours as
Your self, in whose Na-
ture, Justice and Equity, are so
firmly established, that your

The Epistle Dedicatory.

Name prefixed to this Book, is not only able to defend it from Calumny, but also to cover a great many Faults may be found in it.

If I should declare my Obligations to lay this Work at your Feet, this *Epistle* would swell to a greater Bulk than the Book it self: For who could enumerate all your Endowments, or my own particular Ties in less space? Who can sufficiently declare that profuseness of Nature, who, ordinarily, giveth some Excellency to one, some to another, but has Concentrated all in You: Who did ever see Nobility such a debonaire Countenance, such exact and divine proportion of Body, Politeness of Mind, and Pleasantness in Conversation, so blended and mixed in a Creature?

The Epistle Dedicatory.

ture? so that I'm at a stand, whether I should say, That they are the Attendants of your Birth, or much rather, since they are not to be found in your Equals, I could almost think that Nobility and Riches are but the Earnest of the Reward of so great Vertues. Madam, I am hardly restrain'd from breaking in upon Them, but I fear I should wander in this vast *Field* and inextricable *Labyrinth*. Wherefore, I do truly value my self, that I have resisted so great a Temptation, in not launching out into this Ocean, in improving the Subject before me in *Panegyrick*. Yet I cannot so entirely moderate my Passion, but I must say, That the great Prudence whereby you have managed and improved That Estate, in the Minority of your most Noble
Son,

The Epistle Dedicatory.

Son, is a most plain Declaration of the most of the other Vertues.

But that I may not offend against your Modesty, I must keep off, and tell you in short, That this *Dedication* is the *Basket of Flowers* the poor Man presenteth his Rich Neighbour with. Yet, worthless things receive a value, when they are made the Offerings of Respect, Esteem, and Gratitude: These I have in the highest degree for You; so that if they can add a Price to what they go along with, proportionable to their own Greatness, I can with confidence brag, I here make your Ladyship the greatest Present you ever received. This I am sure, I am under the greatest obligation to seek all occasions to acknowledge; and I should

The Epistle Dedicatory.

should be most Ungrateful, if I
did not lay hold on this Oppor-
tunity, to testify to the World,
how much I am obliged to be,

M A D A M,

Your Ladyships most humble,

and most obedient Servant,

WILLIAM COCKBURN.

The Epistle Dedicatorie.
I should be most Ungrateful, if I
did not lay hold on this Opportu-
nity, to returne thanks, & shew
how much I am obliged to you.

M A D A M

Your I. Indignities most humble,

And most obedient & true,

WILLIAM COCKBURN.

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THE
EPISTLE
TO THE
READER.

Reader,

I Here present you with a Translation of the best, if not the first and only Book yet extant upon the Subject; which, however rational, is rejected by a great many, otherways Learned, Physicians, as Empyrical. Neither, is that strange Humour of decrying what we do not use, stayed there; but the malice of some has led them into a great many Personal Reflections upon the Learned Author himself, as a most unlearned Innovator. This imputation

The Epistle to the Reader.

of Novelty, is a terrible Charge amongst those who judge of Mens Heads, as they do of their Perukes, by the fashion; and can allow none to be right, but the receiv'd Doctrines. Truth scarce yet carried it by Vote any where, at its first appearance; new Opinions are always suspected, and usually opposed, without any other reason, but because they are not already common; and its Detectors disclaimed against, as the greatest Enemies of Mankind. This way of Calumniating is no newer than the World it self: This has been the Fate of such as have deserved best in all Ages, and never more evident than in the last; for, tho' there have been a great many things discovered in it, so essential and necessary for the use of Medicine, that it may be a wonder how it had subsisted before that time; yet, were not the English Oracles, Harvey, viz. Willis, Lower, Sydenham, &c. freed from the Scourge of an unruly Tongue, and Pens dipt in blackest Satyr. So, we may the less admire that Libels, as unjust, are brought against this first, tho' most exact Essay of curing Infants Diseases.

As

The Epistle to the Reader.

*As the Trial and Examination of Truth, and not any Antick Fashion, must give it price, though it be not yet current by the Publick Stamp: So shall this Treatise be found intirely rational, if they will but adjust it to their own Rule. For are not there here, Causes Procatartick, Antecedent, and Immediate described from the surest Considerations? Has not he begun with Reflections upon the first Motion in the Ovum, and observed the Nature and Constitution of its very Spring? Neither has he left in disguise, but clearly demonstrated, what external Injuries they can sustain; yea, he hath most accurately enquired into the Nature of their Fa-
brick and Body it self, and hath deduced all the Maladies that can be subsequent thereupon, from the most solid and firm Principles of the best Philosophy.*

And, therefore, that Calumny is most malicious, when they traduce him as a Rejecter of the use of Philosophy, h. e. best informed Reason, in Medicine; and that he should teach how to become Physicians by practising. This indeed, is the way of some impudent Murtherers; yet

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yet all that he says, is, That Practice is the Standard of our right Reasonings, while, in the mean time, he doth very well know it to be simply impossible, that one just Observation can be made, when the understanding is not sufficiently polished by necessary Philosophy; Experience being very deceitful. So when in several places of his Book, he doth inveigh against, and declare the uselessness of that, which was ordinarily brought for the Introducing, and handing in, of Medicine; he doth positively speak of those which are fitted to the frisking Spirits of Young Men, but which never had place but in the Brains of their Inventers.

Yea, he doth almost in plain Terms assert, what that is he thinketh absolutely requisite for polishing and preparing the Minds of Men, for becoming faithful observers of the Effects of Natural Operations? by the several Appeals he doth make, through the whole book, unto Experiment. As if he had most plainly declared the great use of the Experimental Philosophy for explaining Phænomena's in Medicine; which, methinks, should be no hard task to prove,
if

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if the Ingenious and immortal Mr. Boyl had left any thing debatable upon this subject, and the world were not utterly satisfied of the great advances Philosophy hath made in that School more than in any other.

Whatever be the truth of this : It is most certain that the contrivers of these fanciful Philosophies have got their Understanding and knowledge this way, whatever be the dress they have put theirs into. This might most easily be demonstrated from the great use Aristotle made of the Works of his Ancestors, especially of those of Ocellus Lucanus, though he handed them down unto Posterity as his own. So, he and his Followers in this Reformation, fixing their Thoughts only on Words, and the end of their Contemplations and Reasonings, about little more than Sounds; the result of all, was nothing but Noise and wrangling about Sounds, without convincing or bettering a Man's Understanding : Which the Ingenious and most Famous Des Cartes has exercised in great measure and stoutly asserted our liberty in Disquisition, against that Tyrant of Men's Minds ;

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Minds ; for which no Generation shall ever mention him without due Praise.

Yet, his Followers have very much endeavoured to bring the World back into that Slavery and Bondage, their Master had but lately freed it from ; whilst they set up a clear Deduction of all Truths from their Masters Principle ; as if all that boundless Extent were the natural and undoubted Possession of their Understandings, wherein there is nothing exempted from its Decision, or that escapes its Comprehension. They do not remember how much their Master was, and they are, obliged to Experimental Philosophy. His Meditations are a new dress of the most Learned Lord Verulam, his *Novum Organum* ; being his *Dubitation* is to be read in the 31st. Aphor. of that Book, where he saith, That a Redress is to be made from the first Foundations ; because, as he saith in the distribution of that Work, there is a twofold fault of our Senses, they, *sc.* either altogether forsake, or deceive us : for there are a great many things, which our Senses, &c. His Prejudices were before that time termed Idols,
by

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by the Learned Bacon; and the Advice of fixing upon some general Truth, by which we may more clearly make Disquisition into her more retired Recesses, given by that most ingenious Gentleman; who, tho' well knowing the infinity of such Maxims, upon the ground of Assent, at first hearing and understanding the Terms; yet never suspect that any could carry the Matter so high, as to fix upon any one as the first; neither is the Proof of Existence, because of Thought, at all such; except I know the necessity and relation of Thinking, and Being, which he perhaps had cleared, if he had not been afraid of falling into that other general Truth and innate Idea (if there be any such) that it is impossible for the same thing to be, and not to be.

This, then, being the whole Life and Spring of his Meditations; we may most justly say, That they are nothing else but Sir Francis Bacon reviv'd. And that his natural Philosophy is nothing but a dexterous Application of his ingenious Principles to the common and observed Operations of Nature, will be most clear; if we do recollect, where, in the

Fourth

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Fourth Book of his Principles of Philosophy, being now destitute and run out in his own Learning, he doth ingenuously confess, That he can assert nothing positively of these Phænomena's not having had sufficient Trial and Experiment. And as the Ancients did cast such things as they could not explain by their beloved Four Qualities, into that vast Catalogue of such as are Occult; so the ingenious Des Cartes did dispatch a great many Difficulties with his as unconceivable Dispositions and certain ways of Doing. Neither has Aristotle and his Followers been more diligent in suppressing those Ancient Philosophers, that, as the most Learned Lord Verulam saith in the 232 p. of his 3d. Book, about the encrease of Sciences, After the fashion of the Ottoman Family, they thought they could not safely Reign, unless their Brethren were Assassinated; than the Followers of that Famous Man to suppress, contrary perhaps to their Master's first Design, every way of explaining Phænomena's but their own.

This

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This Contagion stoppeth not here, but has diffused it self so much into Medicine, that now, there can be no Learned Physician, but who doth reason his Diseases from these three Principles, h. e. from the different Efforts and Operations of the Matter of the first, Globules of the second, and that of the third Element. But whether my most Learned Author has just reason to subscribe to those, or keep by his own Philosophy, shall appear from the following Considerations: As,

I. From this useless and general way of explaining Phænomena's, wherein there's nothing to be found but empty Sounds, and most abstract Notions. They call all Diseases a confused or ill mixture of the Humours, which in the main is true; but how to settle the different kinds of Diseases, is somewhat hard; and their Cause an obstruction of Pores, and so (with them) must always be thrust out by Diaphoretick and Sweating Medicines: And so there is never any use for cooling and temperate Medicaments, these silly and naughty parts of the Creation, which are ordain'd without any Design,

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sign, and are of no use to Man, as the
standard of our Religion would inform
us: So either there must be no such
thing in nature as these Remedies, or
the Scriptures do cheat us, when they
inform us, That all on this Earth was
created for the use of Man. Yea, it
might much be doubted (that I may pur-
sue their fancy) whether the parts of
Matter, arrested by Pores of a different
Figure; these Causes of Obstructions
are to be driven. Surely, not outwardly
lest they produce a too great extension of
Fibres, and so communicate Irregular
Motions unto their beloved Glandulae
and so, create some grievous Percep-
tion in the Soul, *i. e.* Pain. Neither
inward, being they have not yet seen the
necessity for these Wedges, to force their
Return, which, else, they could easily have
supplied us with. But to the purpose:

2. From the bad Success their greatest
Authors have had in practice, not to
name any, being it is well known to all
that have been in their Country; yea
whatever Parade they make in their
Theory, their Practice is nothing differ-
ent from that of the Ancients; and
their

The Epistle to the Reader.

their Prescriptions are most implicitly transcribed, yea sometime when they do flatly oppose those Views they establish'd from their Theory.

3. From the small Progress Physick has made under its Conquest.

Advances have they made in for the most part, by their Philosophy. Is not the spacious Field of the Materia Medica the same, for them, as it was left by Dioscorides and Bauhinus; though the Rise and Beginning of this Philosophy has been in a time when the great Secrets in Anatomy have been disclosed; which some, most ridiculously apply to the great Advantages that have accrued to the World by this; as if it had been the Clew of Ariadne, that led into the vast Labyrinth of Anatomy, and of a great many more that did then appear, by the diligent scrutiny of Men at that time.

So that he may say of Medicine, considering its growth under the Cartesian, or other fanciful Philosophy, what the Learned Verulam said, upon another occasion, of the Mechanicks in his days, That they were come to a greater height in the Shops, where Men were Armed

The Epistle to the Reader.

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Armed

The Epistle to the Reader.

Armed with Tools, than they had come
in the Schools of Mathematicians
That Medicine has made better advances
in the School of Hippocrates than in
the School of Aristotle. And it may justly have
being the Consequences arising
that the most Famous Bacon
the Peripatetick Philosophy may

I might demonstrate here, for further
ther Defence, the great Advantage
Phylick hath, being treated after the
manner, and so run through all the
past Ages until History should give
us no more help; if the treating of the
particular would not swell this Preface
into a big Volume.

I shall not for-estall you with any Col-
lection of the most considerab'e Remarks
of this Book, lest I should be oblig'd
to range it into this Epistle; and
very little patience will be able to con-
quer them all.

And now having answered, at
great length as this place will allow, the
several Cavils that have been brought
gainst this Book: 'Tis now fallen
my own share, that I give some account

The Epistle to the Reader.

of my self in this Translation, and that
who have been Vindicating another,
may need some excuse for my self. True-
ly, this pitiful Humour of excusing is
worse than the fault, and maketh
Man become unpardonable for doing
any thing, they are sensible doth need
Vindication, when at the same time
they may leave undone, that which
they make Apology for. Yet, that I may
not flatter my self that I can escape
Censure more than better Writers, and
my most Learned Author; I shall de-
clare my Design, that, at least, they
may not be utterly unmannerly, and
give us the lie in Things I positively as-
sert.

And. 1. 'Tis no affectation to be
in Print, which no Man, that would
be free of Publick Malice, doth de-
sire; beside how mean a thing it is to
be a Translator, though a work only
suitable to my Years.

All my Ambition is, that I have catch'd
hold of this occasion, to defend Truth,
and

The Epistle to the Reader.

and my Learned Author from unjust
Calumnies.

I have put it in an English Dress, not only that the rude and unlearned may see in this Mirror (my Author's Book) what the Art of Physick is, and how unfit it is to be practised by the Ignorant and unskilful, who presumptuously venture on the Lives of others, and turn Mountebanks with a few Receipts, without the least considering the most profound Principles of the Art; or searching into the Nature of Diseases their several Motions, and different Symptoms. But especially, that Women and Illiterate People, with whom these Physicians have interposed their Scandalizing Authority, may be taught, from the solid Reasonings and the Answerableness to the Standard he hath set up, to be no more afraid of such, as of Highboblins, as do most endeavour the preservation of their and their Infants health, by the Methods of the most Famous and Learned Sydenham, and of my Author, put in practice as the different Exigences which are only known to the Skilful do require.

But

The Epistle to the Reader.

But, also, the Learned may be remembered that the World had very much advanced in knowledge, if the endeavours of ingenious and industrious Men had not been much cumbered with the Learned, but Frivolous use of uncouth, affected, or unintelligible Terms, introduced into Sciences, and there made an Art of, to that degree, that the Art of Medicine, has not been able to endure a satisfying Tryal, until the diligent Labours of some late Authors have broke in upon this Sanctuary of Vanity and Ignorance.

So I hope our thus discovering this and other parts of Physick in the Language of every Gossip is so far from putting edged Tools into the Hands of Children, and teaching Men to play too much with their own and others Healths, but it may be a way to put a stop to the Infinite Mischiefs and frequent Murders that are daily committed.

Only, now, I must make Apology to my Author, though unacquainted, for

The Epistle to the Reader.

for making use of his Book upon that
Design; to whom only I can answer
that it is the fittest, upon many accounts,
for so Publick a Service. And as he
in the close of this Book, leaveth allways
to others the same power of judging he
assumed to himself: so I hope he doth
not, either, restrict this Maxim in do-
ing; for I take him to be so candid
and just a Man, that he doth no-
thing in Publick but what he alloweth
in others; and, therefore, I presume,
he cannot be dissatisfied, being he
did travel in the same kind of La-
bour, *b. e.* he Translated Monsieur de
Bleyny de la verole, upon the same
Design, I do his de morbis. &c.

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Some

An Exact
ENQUIRY
Into, and Cure of the Acute
Diseases
OF
INFANTS.

WHEN but last Summer I had
discourfed the moft skilful and
accomplifhed Phyfician, Mr. Sydenham,
about the frequent Succels I have had
in the Cure of the moft dangerous
Difeafes of Infants :

That very Learned Man did ferioufly
enquire what method I did take in fo
ame (that I may fay no more) and fo
defective an Affair, of which the moft

B

famed

famed Physicians have had so small knowledge. Before him, then, did I most willingly expose that way, which of all pleased me most, and which he, after tryal, did not only not disprove, but confirming it by his own experience, and declaring it most useful to others, did most earnestly desire me, to recommend it to the World. By the persuasion then of so Learned a Man, I take my Pen, and to my power, do consult the Health of my Country.

I know in how unfrequented, and unknown a Path I am to walk, since Children, and especially sick Infants offer nothing for a clear Diagnostick, but what we can collect from their moaning; Complaints, & their uncertain Idiom of frowardness; wherefore, very many Physicians of the best Vogue, have often declared to my self, what unwilling Visits they made to Sick, but especially New born Children; hoping little from these Notices for the unridling of their Maladies. No doubt, we should assiduously inquire after a perfect Cure of Childrens Diseases, as of any other thing that may seem wanting in Medicine;

Medicine; neither do rich men, who do
 desire, or would preserve the Health
 of the Heirs of their vast Properties and
 Possessions, trust much to this; but all
 Parents who with an invincible Affection,
 do as eagerly maintain the Health
 of their Young ones as their own.
 Wherefore, if I shall give some small
 Light, which advanced by the polished
 wit of other men, that may render this
 rude and imperfect Work more absolute
 and exact, I shall not repent me
 of my Undertaking, but shall take it
 in very good part.

Who therefore will diligently ponder
 the Symptoms of the Youngest Infants,
 which are most evident, or whoever shall
 seriously reflect upon their delicate
 Constitution, and most simple Diet,
 shall find this not so difficult a Task,
 as he formerly conceived. For I do not
 doubt to assert the Diseases of that Age
 generally to be but very few, and only to
 differ in degree; yea, that the Cure of
 Infants is far more easie and safe, than
 that of Men and Women.

As of all Ages, that of old People
 is with very much ado changed to bet-

ter, because of the dryness and hardness, and almost stinty temper of all their Solid Parts; so without doubt, the Younger, because of their delicate and mucilaginous Tenderness, are apt to receive any alteration imaginable. For these Parts of an Old Man are dry and wither'd, which in Infants are most humid, *viz.* their Bones, Membranes, Ligaments, Arteries, Veins, Nerves, and the very musculous Flesh: Sith that even the Bones of Infants may be more properly termed Cartilages; and now being they do abound with so much natural and acquired moisture, that their Bodies are perfectly soft and flexible, that temperament and constitution is very justly said to be the most humid.

And as the constitution of Children is most humid, so I dare not to pronounce all their Diseases to be of one kind, and to be produced from one and the same cause; and that the Maladies of the however different parts of the Body, whether they be the uppermost or nethermost, as the Stomach, Intestines, Lungs, Head or Nerves, are variously

variously and most affected, are of the same Nature, under divers and sundry Names.

In which assertion, that I may not seem rashly to maintain a Paradox, you may hear *Hippocrates* himself in his Book of Winds or Vapours, speaking of one and the same Universal Cause of Diseases. *Τὸν δὲ νόσων ἀσπίαν, &c.* *The Rise of all Diseases is one and the same. The place only maketh the difference. Wherefore, Diseases seem to have nothing of Relation, because of the diversity of their places; when, tho, there is but one Species, and the same Cause of all Diseases.*

Wherefore, if we shall consider the nature of the Moisture of Children, we shall not find it possible to degenerate into any defect or putridness, but that which is acid. For with whatsoever Disease they are affected, however named by the Authors; seldom or never could I find wanting Excrements of a very sour smell, and an abundance of tart and acid Belchings, especially in the beginning. But also, almost all Liquors that do tend to pu-

trefaction, do naturally contract an acor or sharpness. Yea, Milk it self the proper Food of that tender Age if keepeed for some time, becometh soured and doth coagulate upon the Fire without the addition of any other Acid. Moreover, all the Symptoms of Childrens Diseases do justly reckon their beginning from an Acid.

With all which, let us consider the weak temperament and the infirm constitution of their Blood, so that the Spirits that lodge therein, have not yet attained so great mastery as to discharge their Functions and Offices or to settle by their own Force or Activity, any Irregular Motions of the Humours proceeding from any inward or external Cause. For that Vitaeal Liquor, as Stum, before it be dulcified and fermented, doth easily contract preternatural Acor and Tartness; therefore it may easily be redressed by timely and artificial Help.

By an Infant I do not only in a more strict sense understand, with *Galen*, a Child of one, two or three monthss but in a larger (as commonly) a Child

more

more advanced in Age, even to four Years; from which to 14 he is a Boy. And being confirmed by multiplied experience, and Reason it self suggesting no less, I do firmly assert, that the younger the sick Child or Boy is, that his cure is so much the more easie. For any Impression whether good or bad, is sooner received by a soft than a hard Body; though it be more lasting, if once it be impressed upon the hard: So Children, do easily fall into Diseases, and are very easily restored to their Health, if they be not ignorantly and unskillfully treated.

The Diagnostick of Childrens Diseases, cannot so much be collected from their own Relation, neither from the touching of their Pulse, or from a more curious Tryal of their Urine, as from the Answers of the Nurses and Women that are their constant Attendants. The Women know, if they have been troubled with Loathings, and Vomitings, and how long; whether the Food or Milk that was cast up, was curdled; whether untimorous Weeping, Watching, and Disquiet,

give any Notices of Colick Paines whether they be affected with acrid Belchings, or the Hickup, or a Cough doth appear; whether their Belly hath kept a due course, and if their Excrements be white, green, or filled with Bile. They know, if their Infants have had extraordinary drouth, and so be Feverish, or if their mouths be full of Thrushes, which do much trouble their Sucking. Being enquired they can inform you, if epileptick Spasms have seized their tender Bodies, with the several Concomitants of time and severity, or whether their present Sicknes be treisted with their breeding of Teeth; or lastly, whether any thing considerable, whether that be a swelling of their Belly, or of any other part, either Wheels or Pulses, or the Jaundice, or Rose do appear. The other Symptoms, methinks, do more belong and appertain to subtil Speculation than Practice.

But the frequent Complaint of an uncertain Diagnostick, has more its rise from the preposterous and useless

less way of curing, than from any want of Symptoms. For under this Mask and Vail Physicians do willingly cloak and conceal their Ignorance and Mistakes. Neither can I conceive upon what account Almighty God who governeth and provideth for all things, who disposeth of every thing in so good order, and who hath given to the very Beasts, and to Insects, of all these the most vile, an innate and sufficient sagacity for preserving themselves; should restrain his bounty from communicating it self in that manner to the Children of Men.

But the Pulses of Children are naturally, or upon every little Alteration do become so swift and frequent, that they always seem somewhat Feverish. Moreover, they are for the most part, so chagreen and froward, that not keeping their Wrist one moment in the same posture, do not suffer their Pulse to be touched. Lastly, there are so many things that do accelerate or otherways change their Pulses, that Sentiments taken thence

should prove very uncertain, if not altogether false.

Their Urine, when in perfect Health, is most thick; so that any too curious Person, unacquainted with this, could pronounce them labouring under some grievous Distemper, though at that minute, they do enjoy most prosperous Health. The Urine of Infants is always mixed with their Excrements in their Cloaths, so that it doth rather serve for the scalding and excoriating of their Thighs, than for the profound and deep enquiry of the Diviner.

But that we may the better search into their Diseases, we must not entirely neglect the Notices that may be gotten from the foregoing or procatartick Cause; which are to be taken from the consideration of the Disposition of their Parents about the time of Conception; or from the Reflections upon that Nourishment which was then transmitted into them, either by the Navel, Pores of the Flesh, or of the Skin, which are then most patent, while they are in the Womb, and

and but yet beginning to be, and exist.

It cannot be denied that there are such diseases as are derived from one or both of the Parents unto their Children: Who can doubt, but that the *Gout, Epilepsie, Stone, Consumption, &c.* Have descended from Father to Son, when whole Families of the same Blood have ended their lives in the same kind of Disease. The prolifick Seed doth so firmly communicate to the *Fœtus* a disposition to Diseases, which is so natural, and groweth so much with their years, that it cannot be rooted out with any pains or industry. And I think that hereditary Diseases are never more frequently communicated, than from the Mother in the time of her big Belly. For *Teeming Women* are obnoxious to a thousand Faults and Errors in their Diet; they are exposed to a thousand Accidents, with which either being affrighted or otherways wronged, do derive indelible and uneffaceable Injuries upon their Children. For how absurd are the longings of Women
with

with Child! One cheweth Coals, another Lime, a third Apples, and each with the greatest pleasure; one eateth raw Fleshes, the other crude Fishes; yea the Appetite of some hath been so depraved, that it could not be satisfied but by some Callous and solid part from the Body of Man. Moreover, it is daily most obvious, how great the force of their Fancy and Imagination is? How great Monsters it hath produced! and what taches of all kinds it hath communicated to Infants. And now, if I should resolve to scartle together, from all hands, the wonderful accounts and Histories of *Teeming Women*, or in plain English, if under a pretence of vast Learning, I should give out my self for a great Reader, I have here a very fair opportunity of digressing and expatiating into a very large Field, however beside the purpose; but I choose rather to prosecute my design, and endeavour Brevity, than by idle circumlocutions, and the vain and empty Citations of Authors, to boast of learning falsely
so

so called: Always esteeming that Man more learned, who can produce something that is true, from his own knowledge and Experience, than him, who being very well acquainted with the Tables and Registers of Books, can collect and quote, upon occasions, the Opinions and Sentiments of Authors, quibbling and contending among themselves.

Those Mothers who are most subject to these depraved Appetites, do impress and communicate unto their Children such diseases as can only be cured by time. And poor Women whose best Divertisement and only Antidote against Melancholy, is hard labour and constant working, whose Food is most slender and simple, are seldomest essayed and proved with these depravations. But above all, such as are Hysterick (with whom we may justly reckon a great part of your delicate Women, who spend the most of their time in Dressing and Decking, and do languish and decay with idleness, whose lazy and torpid Blood waxeth Acid and Tart, after the
same

same manner that standing Waters do corrupt) do most certainly Communicate to their Infants such Dispositions to Diseases with their first life. *Being an ill Raven* (as the Proverb is) *an ill Egg.*

Amongst the rest of the Creatures the innate goodness of the Kind, is most surely derived upon their young partly because of their simple Dyett and partly, but more especially, because the Male sacredly observing the Laws of Nature, never copulateth with his Female, when his instinct (however informed) inditeth her teeming. But Man (whose lofty Reason hath taught him to despise the Brutes) almost more salacious than a Buck-Goat, not knowing how to restrain and bridle his Lust, importuneth his Mate from her first Conceiving until the hour of Birth. Hence it is that strong and Healthy Men do so frequently beget weak and valletudinary Children. This is the Reason why Old Men having overpassed (by the benign favour and help of Nature) the Stage and Period

period of their immoderate Embraces,
do beget of their Decayed and Bar-
ren Seed, more plump and healthy
Children than the strongest and most
keen Youth.

Thus having considered the proca-
tarctick cause of their Diseases, which
do mostly depend upon the condition
of the Parents whilst they are begot-
ten; especially of the Mother, in the
time of her Big-Belly: We will now
come nigher, and inquire into the
more immediate Causes of their Ma-
ladies, which may be reduced to
these four Articles.

1. To their catching Cold.

2. To the too thick Milk of the
Nurse.

3. To their over soon eating
Fleashes.

And 4. To the mad and impru-
dent fondness of Mothers, and many
Nurses who do often permit their In-
fants to sip up Wine and other strong
and Spirituous Liquors.

And, 1. Cold, especially from
the night Air, to which they are
most subject, doth very often make
way

way for these Fevers, with which Infants are so frequently affected: Sith that they come naked from the Womb, not being cloathed by Nature as all other creatures are; Reason, or, rather, Nature, destitute of her own help, doth instantly suggest the necessity of wrapping them up into warm Cloaths. Moreover, the mutability of the Air, and the continual vicissitudes of Heat and Cold, do plainly advertise us, how great our care should be in the warding off its Injuries. For the more tender and delicate the Temperament and Constitution of any, even of the most adult is, the more are they subject unto impresses and inconveniences from the Air. But the strength and constitution of Infants are of all the most tender and infirm; and unless there be great care taken for warm and convenient, not fine, splendid and sumptuous Cloaths especially for such as are descended of honest Parents, they cannot long eschew these Diseases, which are the ordinary attendants and consequents of night Air.

Air. Yea, an exact care for convenient Apparel (whatever some strong men may deny) is so absolutely necessary for every age, that ordinarily the most weak and valetudinary People (for as much as I could ever observe) do live longer, than the most robust and strong Men; which can be attributed to nothing else, than the great care of the one, and supine negligence of the other for convenient and warm Cloathing.

2. The too thick Milk of the Nurse. For if she be a lover of Wine or any other strong and spirituous Liquors, her Milk is so warm'd and on a sudden inflamed, that fire it self only passeth her Breasts, for her sucking Infant; but if she more wantonly entertain the untimely embraces of her Husband, her monthly Visits are renewed by their Coppulating, and so her Milk Corrupteth and groweth soure and the matter for the Milk being otherwise diverted; the Milk it self doth gradually diminish, and the lean Child for some time troubled

troubled with inconvenient Food,
so often killed.

Lastly, If she be hysteric *h. e.* of
more tender and delicate Constitution
however Chaste and sober she may
be, yet her Milk doth degenerate
and Naturally turneth thick. In how
great danger then are Sucking In-
fants! upon how Inconstant and Slip-
pery a plan doth the Health of these
Innocent Children Sift! It's this, and
some other Causes, which I shall ju-
now recount, that are the frequen-
occasions why we hear so often the
found of the Passing Bells of the
Villages about *London*, for some on-
Child that is undeservedly Atoning
and Expiating the faults and mistakes
of its Nurse; and now ending its
scarce well begun Life, having met
with some unchast Intemperate or
froward, and dishonest Nurse.

But also from the foregoing Cau-
ses doth depend, a remark which
a *Divine* of very good Credit and
intire Fame, Rector of the Parish of
Haies, twelve miles from *London*, did
make, when he told me with great

Grief

Grief, how his Parish which is very large, and of great extent, well Peopled, and seated in a most pleasant and wholsom Air was upon his coming to that place filled with Sucking Infants; yet in the space of one year he was assistant at the burying of them all (if you do except two, and his own only Son; whom, being yet very weak, he did not unadvisedly commit unto my Care, from his Birth.) Yea, he was witness that same Year to the Interring of the same Number which had been twice supplied in a City, perhaps amongst the greatest in the World, yet brought to an untimely end by the fault of the Mercenary Nurses.

Moreover, the thickness of Milk, whatever be its cause, cannot but produce a great many inconveniences of sundry kinds; being that the Bodies of Infants, should, of all, be the most fluid, and these smallest conduits which are ordained for transmitting of the Chyle, should always be kept open: and lastly, being that this most unnatural thickness of Food is most opposite

posite to that most fluid Constitution of Infants, and doth give occasion to all kinds of Obstructions in the first Passages.

3. To their over soon eating, it is not more properly, devouring and swallowing down, of fleshes. For it is most admirable that Mothers are not in a fear of killing their Infants, with so disagreeing and improper Food to whom, though they love so excessively, that they seem mad in that passion. For who could seriously think that flesh, so solid and compact a substance, can be at all agreeable with these tender Infants, who as yet have got no teeth, at least not strong and firm enough, for the chewing of fleshes. What man of the least judgment can assert the Riot and excess of the most manly and robust Age any way convenient with one, that is so tender, and most simple, and whose strength is most infirm.

It's certain, that convenient Diet is not to be neglected in any part of our time, but because the Temperament and Constitution of Young Ones do thus

So easily sustain Injuries upon that
 core; neither have they force e-
 nough to ward off Diseases from that
 hand: therefore there should be greater
 care taken for the preventing these
 errors and mistakes. For a cropful
 of fleshes too early and untimely de-
 voured, is a most fruitful mother of
 Crudities, which are almost insepa-
 rable from this gormandizing Age.
 Crude and indigested food doth neces-
 sarily produce that corruption of hu-
 mours; from which not only worms
 are bred, but also these various, most
 grievous, and most irregular Symp-
 toms, whereby Infants are wasted and
 do decay, do proceed and have their
 rise.

By the way, I must observe, that
 the Crudities of Infants are, over and
 above, daily encreased and accumula-
 ted because that almost all Nurses
 do repose their Infants for sleep pre-
 sently after Meat of whatever kind.

4. To their sipping up of Wine
 and other strong and spirituous Li-
 quors imprudently permitted and al-
 lowed. And this cause, as the for-
 mer,

mer, is only referrible to the foolish indulgency of Mothers. Doubtless they do suppose, that these things which they reckon good and pleasant to themselves, and which do free their hearts from care, cannot be disagreeing with their Infants. As if forsooth one Shoe were fitting for every Foot! Truly, these very good Women do not consider, how hard and firm their Hides, and how soft and tender the thin Skin of these young ones are; they do not remember that one man's Meat (as people speak) is another's Poyson. Lastly, they entirely forget how their craving Appetite is scarcely quieted with the strongest Meats, and how hardly their Infants do digest Milk and Panado.

But the nigher that any come to Old Age the more do Wines become agreeable with them. Being, that languishing Heat of Old Men do want a supply from volatile Spirits which may be had in great abundance from Wine, both for the encrease as also for the preservation of their natural Warmth. Wherefore Wine

is most hurtful and inconvenient for the Nature and Constitution of Infants, being it is the most different and remote from that of old men; for their very weak Nerves are most easily destroyed with it, and their tender Bodies are either colliquated by degrees, or suddenly cast into Fevers with the subtle flame and heat of Wine.

There are some who would allow Wine to Infants, because of their un-
 young
 mely eating of flesh. For that they think, that Wine, even in that Age, both much advance and further the concoction and Fermentation of Cruditities, to which, no doubt, these young Ravens are very subject. But I shall not so much here debate, whether one mistake should cure another, or both be eschewed, as I shall offer the impartial consideration of any man, who may compare the Children of poorer People who have a simple and sober Diet, and those of the rich who have all things in plenty and excess.

Truly, all kinds of Wine and spirituous Liquors more liberally drunk,

drunk, do not only destroy the natural Ferment of the Stomach of Children, debauch the Appetite, burn up its Coats and wrinkle them as Parchment over much dried by the fire; but also (which is most considerable in this case) do exceedingly injure the Nervous Coat, by which all the Nerves of the Body are weakened and the Animal Spirits driven into confusion. The Wine which offends all least wrongeth that tender Age, is that which is White; in as much as it was reputed cold by the Ancients, though not absolutely so, but in respect of all other Wines, whether they be red, yellow or of a Fallow colour. Yet *Galen* strictly discharged Children the use of every Wine.

All the Causes antecedent or mediate of Children's Diseases, however many they really are, or be supposed, may justly be resolved into this one immediate cause, *scil.* a very active and prevailing Acid.

The History, then, of the more grievous Diseases, wherewith Infants

are mostly affected, is, as followeth.

Their stomach whatever be the first Cause, is always affected with an Acid Distemper, whence, their Aliment is reduced, not into that homogeneous Substance of Chyle, but into

Posset. This inequal condition of the Chyle and Nourishment, begot likewise from too much Acidity, doth chiefly produce Loathing, Vomiting and sour Belchings. But if this

Distemper be protracted, and of greater continuance, they turn pale by degrees, and their discolour'd Face is tinged with somewhat of a yellow or green Colour. Then doth their

belly swell with Wind, and Flatulent Eruptions are carried upward: In the mean while one or two red pustles (a most certain sign of too much Acidity) do appear upon their

face, upon some upper part of their body, sometimes, sc. upon both cheeks sometimes upon their chin, sometimes upon their Fore head, or upon their neck, though sometimes lower, and the

fant becometh daily worse. But he al- breatheth high, and that with a kind

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of

of snoring ; with which symptom he is always affected (especially if the Child be plump) when his Disease has gotten into the Category of such as are Acute.

Moreover, he is often troubled with a slight, dry Cough, though sometimes it is strangling and suffocative: with a dry Cough, because of the sharpness and Acrimony of the Humours that continually prickles the most sensible Branches of the Wind-pipe; but the choaking doth proceed from the abundance of Serous and Watry Humours, that fill up and burthen the small Vesicles of the lungs, that it cannot be cast off and discharged. But also, they being endued with a great debility and weakness of Nerves, and a superlative softness and delicacy of Constitution, they are not able to subsist with that violent trouble of Coughing, but do succumb under that unnatural and excessive motion of their Breast, and their face is blackish as that of strangled people.

But, if this coagulated or posseted Food, doth fall from their stomach,

mach into the Intestines (as frequently it doth) then Gripes or Colick-pains, greenish Excrements, and very often, most dangerous Flixes do ensue. And while this Tragedy is in acting in the lower Ventricle, these great Pains must be attended with more Dramatists, and therefore, do introduce Fevers, which, if not kindly entertain'd and dexterously managed do cut short the days of a great many Infants; or if the pains being not so violent, but, perhaps, surrendring to whatsoever an unskilful Cure, yet doth it terminate into a Bigg-belly, the most convenient thing in Nature for producing the Rickets or Kings-evil. A certain sort of tremulous Mucilage or Gelly (the immediate Origine of Worms) which is sometimes whitish, though sometimes of a grey and yellow Colour mixed with Green, is naturally, but oftner by Medicaments dexterously and skilfully administred, purged off with the Excrements. They often rub their Nose, not only when they are troubled with Worms (as Women commonly believe)

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leave) but in every Fever which hath its rise from a corruption of Humours; for any sharp Humours carried upward, do affect the thin and sensible Membranes of the Nostrils,, either of young or old, in Acute or Chronick Diseases. The afore-mentioned Gripes do continually produce watching, disquiet and moaning,, which the Nurse doth as often endeavour to allay, by giving it her Breast,, that there may be some short delay or Truce struck up, for her troublesome business and employ. But if the Nurse be oppressed with Poverty at home, and therefore be sometimes forced to leave her Infant discharging his Complaints in the senseless Air; or being merely mercenary (as most ordinarily she is) and not compassionating her weeping Infant, it is frequently troubled with some one kind of rupture for many years. Moreover, its Milk or Food (while these Pains do continue) never duly digesting but turning Acid, is posseted, so by little and little it becometh Feverish; his droughth is intended, his Joynts turn
flaccid

flaccid, and so the tender Infant groweth daily weak and infirm. Upon the close of all this sickness, Convulsive motions and Spasms do seize upon the Members of the Feeble Infant; and when there is no more force and strength in their Nerves for actuating the Muscles of the Heart, and protruding the Blood (by the Laws of Circulation) into the Arteries, doth cast up the White of its Eyes to the Heavens, the proper Seat of unviolated Innocency, and endeth untimely its short life, before it hath understood the miseries of living.

If they become sick about the time of their breeding Teeth; they are affected with a great many of the foregoing Symptoms, and Thrushes; Ulcers of the Mouth, of a fiery hotness (a sort of white Scurf) which do often begin immediately after their Birth, and before the growing of their Teeth, though now and then later, yet about this time do most prevail, and do sometimes so blister their Mouth, that being overspread, and every where Ulcerated, it cannot let in the belo-

ved Breasts themselves, nor a Spoon without the greatest trouble and aversion.

Further, the Mouths of Infants are very often so hurt and wounded with Thrushes, that they cannot weep nor let Tears fall from their Eyes for some days; altho' they be tormented with exceeding tenderness and intense heat of Mouth, with a great many other sicknesses that are the ordinary Attendants of Fevers. And therefore I account that change from their being dumb unto their echoing the House with Cries a very good sign.

Boys of greater Age tainted with Feverish Symptoms; do for the most part complain of their head; which pain is no Disease of it self, but sympathetic and derived from the Stomach and lower parts of the Body.

That all these and the like Symptoms do immediately proceed from the poffeting and thickness of their Food, especially being greater than can be at all agreeable with the Constitution and Nature of Infants, whose Canals

nals and Passages should necessarily be most fluid; and that this posseting is oftner produced from some degrees of Acidity than any other cause, is most evident from our Senses themselves and the way of Cure (which is excellently effectuated by such things as obtund Acidity, and depilate or dissolve Coagulations.)

The frequent Vomiting of that thick Gelly, and that viscid and coagulated Phlegm somewhat green, when the sickness has advanced; and their breath which hath a very sour smell, are things most evident to our senses.

That the green Colour of their Excrements is meerly from Acidity mixed with Bile, will be most evident to any who take pleasure in changing of colours into green with Vinegar and Acid Spirits. Moreover, the smell of their green Excrements being always designed Acid by the very Nurses, doth clearly demonstrate the same.

The excessive Gripes and pains in their Belly and Paleness of Face do confirm the abundance of Acidity; for

so soon as they are troubled with these Pains, they turn pale, though never so high colour'd before they were affected with this Distemper; except that sometimes their Cheeks are possessed with a pleasant blush, which doth easily evanish into the wonted paleness.

En passant, I shall observe that I do by no means hunt or sue for the honour (if there be any such) of being the Author of a new Hypothesis; neither think I my self obliged, if I have either excogitated or established one, to collect all sorts of arguments (as is customary) though against my Inclination, for gaining credit to the foresaid Hypothesis. Being, the chief thing in Medicine, and which can only be serviceable to the health of mankind, is such a knowledge of Diseases as is both founded upon, and confirmed by Experience and Practice. For the other ways of explaining Phenomena's however learn'd and subtile they may be thought, do rather make a shew of an acute Sophister, or Philosopher, improperly so called, or very often

often of a most ready wit ; but shall never proclaim him a truly skilled Physician, and a Man excelling in his own Trade. For all these gay speculations, which are so admir'd (as Poetical flashes) by the frisking Spirits of young Men, are seldom or never to be found but in the Brain and Fancy of their *Inventor* ; and are never so often contrived as by those, who are the most unsuccessful Practitioners.

But the solid and genuine Ideas of Diseases are never to be acquired, or their truth justly to be judged or approved of, but by *practice* it self.

I know how obnoxious, and perhaps not undeservedly, this my Notion of an Acid, which I suppose to prevail in the most remarkable Diseases of Children is to the Censure of diligent considerers. Yet neither shall I too stiffly, debate whether all the signs of Acidity, which subtle Men free of business and given to quibbling and strife can remember, do quadrate and exactly agree with that Notion of an Acid, which I maintain does so much abound in the Stomachs of In-

ants. My expectation shall be abundantly satisfied (albeit I take no great pains in polishing and displaying that Notion) if I shall be so happy as at length to demonstrate a more effectual and a more certain Method of Curing than hath been hitherto in use, and which I freely leave to the determination of such, as shall try the truth of my assertions.

Nevertheless, I shall not pass over what *Hippocrates*, without all peradventure, chief of all Physicians, doth declare at large, in his book concerning the old Medicine, about the Causes of Diseases: that, *viz.* he may more thoroughly demonstrate that all Diseases have not their rise from the first, but second Qualities. His words then are these: Οὐ γὰρ τὸ ὑγρὸν, καὶ τὸ ὑγρόν, καὶ τὸ θερμὸν, &c. They (so the most famous of the Old Physicians) did not think that man was either injured with what is dry, or moist, hot or cold, and that he had no want of any of these. But they esteemed that most apt to injure which was most potent in its kind, and was above the

Con-

Constitution of Man, so that Nature
 could not overcome it, and this they
 endeavour'd to extirpate and remove.
 But the thing that is sweetest is the most
 potent amongst things that are sweet,
 the bitterest amongst bitters, the sourest
 amongst things that are sour, and that
 of every thing, which is in the highest
 degree. For they did clearly see that
 these things were in Man, and that it
 was these that did most annoy him. For
 there is in man both Bitter, and Salt,
 and Sweet, and Acid, and Austere, and
 Insipid, and a great many more which have
 different Faculties according to their
 strength and abundance: And that they
 are neither perceived, nor do they of-
 fend any Man, when they are duly
 mixed and adjusted amongst themselves:
 But so soon as any of them are separa-
 ted or do appear apart, then are they
 conspicuous and do trouble and harm
 Man. For all these meats, which,
 being eaten, do not agree with us, and
 do destroy our health, are either Bitter
 and not well mixed, or Salt or Acid, or
 some other way intemperate and exces-
 sive; and therefore do create trouble
 and

and disorder in the Body. And thereafter
 'Ου γὰρ τὸ θερμὸν ἐστὶ τὸ τὴν μεγάλην
 δύναμιν ἔχον. For it is not as it is
 Hot, that it hath so great power, but as
 it is Austere and Insipid or otherways
 doth more or less participate of the fore-
 going Qualities. Again, 'Ου διὰ τὸ
 θερμὸν ἀπλῶς: men are not Feverish
 merely because of Heat, neither is it a-
 lone the cause of the Disease; for Bitter
 and Hot, and Hot and Acid, and Salt
 and Hot, and a great many more are one
 and the same; and again, Cold joyn'd with
 other Powers, &c.

From these words, and a great ma-
 ny to the same sense fully explained
 in the afore-mentioned Book, it is
 most evident, that our heavenly Old
 Man, that Star of the first magnitude,
 hath ratified, that these second Qua-
 lities, *sc.* Acidity, Bitterness, Saltness,
 and the like, are to be considered, as
 the chief Causes of Diseases. And
 therefore I do not doubt to add, that
 it most naturally followeth, that the
 Cure should mainly be carried on, not
 so much by destroying Heat with
 Cold, as by obtunding and blunting
 the

the Acidity, altering the Bitter, allaying the Salt, by inciding tough Humours, and rendring more compact such as are thin, by mitigating those that are harsh, and lastly, by opening the obstructed passages of the Body, and freeing them of their Stuffing.

But perhaps, it may be necessary, that I do premise something in the place of a Prognostick (as is usual) before we do attempt their Cure.

And truly, the *Prognostick*, in my Opinion, doth rather depend upon the method of Cure it self, as that is right, or wrong; as also upon the Behaviour of the Nurse, whether *sc.* she over-much studieth her own fancy, and be the only wise (which, alas! is a most sad consideration) or whether, she be obedient, and doth faithfully perform and execute what is commanded her, than from the Diseases of Infants and Children. For their Fevers are very slight, neither doth their feverish Heat so much burn, as it is more properly a certain degree and advancement of Heat; except when too too curious Art
which

which trusteth to, and relyeth over-
much upon these fiery and spirituous
Cordials, is most unluckily brought
in to their Assistance.

Corpulent and fat Infants troubled
with Defluxions, and having an open
Mould, are most subject to the
Rickets, Chin-Cough, Kings-Evil,
and almost incurable Thrushes.

Lean and Scraggy Children are,
of all, the most tender and very
subject to the worst Fevers, *h. e.*
to such as are hottest and most in-
censed, and most inimical to the
Nervous Kind.

Children which are born by Hyste-
rick, tender and valetudinary Mothers,
which delight much in, and do con-
tinually devour unripe Fruits, and
Sallads while they are with Child;
or at that time do long after such
things as are Sour and Austere; or
by those who are Belly-Gods, and
meer Slaves to their Stomach; and
lastly, have their Appetite depraved
from whatever Causes: These, I say,
do with great difficulty amend off
any great Disease.

Child.

Children that keep open in their Belly, have their Health better than such as are constipate.

The *Spring* and *Summer* are the best times for curing of Fevers; but the *Harvest* and *Winter* are not so.

From the middle of *July* to the middle of *September*, these epidemick Gripes of Infants are so common, (being the annual Heat of the Season, doth entirely exhaust their strength) that more Infants, affected with these, do die in one month, than in other three that are more gentle.

Convulsions, or at least starting of their Nerves, coming upon Children weakned by some one Disease, or somewhat burn'd up with hot Medicaments, do bring, all their miseries and troubles, wherewith they are tormented, unto an end.

But as to what may appertain to the Cure of Infants Diseases, none of these Authors (for as much as I know) who have ordinarily published Volumes about those, and a great many more things that belong to the curing of Diseases, do seem to have accurately

ly enough inquired into it. Truly, they have not neglected to describe very diligently a great many Diseases, to rehearse learnedly their Causes and to deliver as well their Diagnostick as Prognostick Signs. They have all trod the same path, and the more Modern (for the most part) have most implicitly and without further examination embraced the Assertions of their Predecessors.

Sylvius de le Boe has wrote the best Treatise of any that ever I did read on the Diseases of Infants, for he did valiantly maintain an Acid to be their true and general Cause, yet he, partly because of his great kindness for some very Volatile Chymical Preparations, and therefore over warm and spirituou, and partly because of his almost constant use of Opiates, which he ordered for the youngest Infants (so that he was characteriz'd and distinguished by the name of the Opiate Doctor) did shake, if not totally destroy by his Practice, what he had in a great deal, most learnedly established in his Theory.

If

If we therefore, do desire to lay any sure Foundation for the curing of Infants Diseases; we should chiefly eye their natural tenderness and weakness. And we should make such a choice of Medicaments as may be most convenient for these tender ones. For the more gentle and safe these Remedies are which we administer, the more certain shall the more certainly answer our expectation. And truly, the use of great and generous Medicaments commonly so call'd) hath never any place in the curing the Diseases of Infants. What avails the continual turning of Fires, for the extracting the Powers and strength of Minerals, when their Bodies are so easily altered? Prithee, what natural Harmony can there be betwixt th' almost impenetrable hardness of Metals and the waxy Softness of the Constitution of Infants? Or how can their weak appetite, that's scarce able to digest their Milk and Panado that slender Food, endure the burning Heat and caustick Faculty of these most deleterious and inflaming Medicaments?

Truely

Truly, even as their food is most simple, so, in all reason, ought their Medicaments to be: not much receding from their Natural State, and very free of too too laborious Art.

Being, then, that Acidity is the chief cause of all these Diseases where with this tender age is affected, the whole Artifice of the Cure is hinged upon the defeating of the Acid. Truly, there might a good deal of misfortune be raised before the Eyes of Novices that the truth might not be disclosed to the sedulous Inquirers. But to be ingenuous, and if it be lawful to speak the truth, and that we may not lose our Cost and Pains, whatever things do most immediately eliminate the Acid, these are they that promote the Cure and whatever serve not that design, do more or less torment and trouble the tender Bodies of these Infants.

But the right management and treatment of the Acid, is stayed upon these two Views and Intentions. First *sc.* That the Acid may be made fit and prepared to be cast out of the Body. 2. That the Acid though prepared

prepared, be eliminated with convenient and proper Medicaments. The one, without the other can never make a perfect Cure, but when joyned, are not only able to defeat Acute Diseases, but do much allay the dispositions to Diseases of greater continuance.

The purging of Young Children in the height and vigour of Acute Diseases at first view doth seem most difficult and full of hazard. But the certain advantage from the following method is Apology sufficient, after Tryal.

It's true, the Purging of people of full age in continued Fevers did make a shew both of danger and boldness to Novices and th' unexperienced. Notwithstanding, its elegant and happy success is much approved and made out by the late trials of the most skilled Physicians. But the incomparable and unparalleled Vanquisher of Fevers of all kinds, the most famous Practitioner Mr. Sydenham was the first that did ever communicate the benefits and advantages of Purging *even in Fevers themselves;*

selves; who designedly did expose
 in his *Monitory Schedule*, that was
 Printed three years ago, his Method
 for staying off and driving away that
 Epidemick Fever, which so much
 rageth at this time. And therefore
 he has merited so much by this, as
 I think, no Age (so long as the art
 of Medicine shall flourish) can pass
 by his Name in silence: Who like
 wise did not doubt to detect with
 a sublime and Masculine Spirit the
 hurtful and deadly mischief of Dia-
 phoreticks over-thwartly and per-
 versly used not only in Forreign Coun-
 tries, but amongst our selves. He
 hath inculcated before, in his Works
 Printed long ago, the great use
 of Purgatives for the Bastard Inflammation
 of the Lungs (a Disease very rife
 and frequent amongst us) and a great
 many more; and, in the Postscript
 added to the end of all his Works
 he did place the cure of that which
 he called the *Winter Fever* entirely
 in Purging. Truly the ardent Af-
 fection of that Man, now almost sever-
 ty, and being most sickly and valetud-

ary, for the publick good, could not be hindred or interrupted by approaching Death; why at length he should not Communicate his most compleat and exact Observations upon this matter, in that golden Schedule.

But that *Purging* (though it be not enroll'd amongst the secrets of *Curing*, neither is accounted among the Wonders of Chymy) is amongst the best helps that the fruitful intentions of Curious Men have at any time discovered; I am induced to believe chiefly upon this account: Because, none can be in perfect health, at least, not abide therein for any time, who have not Evacuations by their belly once a day: Which natural evacuation is no less necessary for the maintaining and the preservation of Health, than our daily food for the nourishing of our Body. For the way of living doth but as much require, that the best and most succulent part of our food, be carried by the Lacteal Veins for nourishment to our Body, as that the worst and grosser

grosser part (which too long retain^{ed} doth cast forth hurtful, yea venemous scents) be by Nature or Art cast out by the common Privy of the Body. Truly, *Purging* hath most justly acquired to it self that Reputation and Renown, that in common discourse it alone hath the very ample and honourable name of *Physick*.

It hath been my constant custom in these last seven Years to enjoin *Purging* in the Fevers of Children and the youngest Infants, according to the prescript of that commended Method, altho, I did set it at nought for the People of full Age: And neither can I express how much it did answer my expectation and design.

Wherefore, when at first I did seriously read th' afore mentioned Schedule, I had as great joy and gladness of Spirit, as if I had received some signal favour from God. Therefore, I was easily perswaded most successfully to try that method of *Purging* of People of full Age, who have found before the most desired effect of it in the Feavers of young ones.

But the first Indication in the Cure of the Fevers of Infants, is to prepare the Acid aright. And it shall become most evident, that Acids must of necessity be prepared, before they can be purged off with advantage, if we will but alittle consider the nature of an Acid: If viz. we shall reflect upon its great power of Coagulating and Posseting; if, as the general cause of Obstructions, which do arise from it; if the natural tendency of all Liquors, if you do except the most Spirituous, into an Acid; if the great trouble that Physicians meet with in the Curing of these people, whose Bodies do abound with Acidity; and, above all, if we shall consider those Gripes which attend the purging of these Bodies, that abound with Acidity, without preparation.

I know that this saying, Preparation of humours, may be read amongst great many Authors. And their design was, that the ensuing Purgative might have the better event. They did intend to attenuate gross humors, mitigate hot ones, to open the Ob-
 structed

structed Passages, or to force these by Diaphoreticks through the Pores of the Skin. But they mustered up against these, I know not what great train of Syrups, Simple distill'd Waters and a great many such trifles, which were of no use for the designed preparing or altering of the Body. And the time which should have been spent in subjugating the acute Disease, was squander'd away in idleness, and ignorance, if not worse.

But, I think, this whatever preparation had its rise, from that common, but not thoroughly understood Aphorisme of Hippocrates §. I. N. 122. *Things Concocted, not Crude, are to be medicated.* And I do believe that the continual wresting of this great Canon into Senses very strange and forreign to the purpose, is the Cause why so many famous Physicians in the by-past Ages have so little dreamed of the benefit and advantage of purging in continued Fevers. For indeed the first beginnings of Fevers (and especially after the sick persons are confin'd to a warm Bed

very often give most evident signs,
 Crudity; the assistant Physicians,
 however happy Practitioners they
 upon other occasions, for the most
 do instantly betake themselves
 Diaphoreticks as their only refuge,
 and they are as much affrighted at
 the very naming and mentioning of
 purging, as the *Foolish Nurses*.

Neither am I ignorant, that some
 Authors have had long Disputes a-
 bout Purging in Feavers, as almost
 all other Diseases; but if I may
 speak my mind in few words, they
 have rather designed, with many
 words, to fill up volumes, to amuse
 the Minds of their Readers, and to
 show their great Learning, than to
 illustrate or determine the Truth.
 Denham the great Ornament and
 shining Star of this Age, having a
 more than ordinary Masculine Spirit,
 and a most sublime Understanding,
 hath made good, *h. e.* hath more ful-
 compleated by his Practice and
 manifold Reasonings that Affair, in
 which the other Authors have truly
 deceived and couzen'd the World.

D

The

The preparation of Humours by Alexipharmacks and Sudorificks in Fevers, did more further their Crudity, than Concoction. Truly, at any rate they must be said to prepare, yet no other thing, but an untimely Death, while they do more certainly procure Frenzies, Convulsions, and a great many most deplorable Symptoms, by forcing up the Crudities from the lowest parts of the Body into the Head.

If in the beginning of Feaver (whether they be Essential or Symptomatick) we shall delay, and put off till to morrow, these necessary Evacuations in the expectation of the lingring Concoction, how soon does that too irrevocable and golden opportunity pass away? The opportunity, wherein the beginning of the ensuing Cure was to be made, wherein there was sufficient strength, and in which alone there can be advantage by Evacuations, yet is spent in the Administration of Cordials and the vain and uncertain trial of Feaver.

ever-vanquishing Medicaments of
the Chymists; and the Patient just
now strong, endeth his days furious
and mad. Moreover, I assert, that
notwithstanding the blind prejudice
of men, Evacuations duly made, do
more reduce crude Urine to their
desired Concoction, and the Patient
unto his Health, than any thing yet
known to man.

The preparation then (of which I
speak, is not to be essayed with
heating Medicaments, properly so
called, *b. e.* such as warm the Body,
which upon no account are agreea-
ble with tender Infants, or Children,
but on the contrary, are most hurtful.
And, the most temperate things shall
most securely absorbe the prevailing
acidity, by little and little they mi-
gate Ebullitions, and become the
most safe and powerful Anodynes.
These are Crabs Eyes and Claws,
yster-shells, of Wilks, Cuttle-bone,
egg-shells, Chalk, Coral, Coraline,
earls, the Mother of Pearls, both
the Bezoars, burn'd Harts-horn,
D 2 burn'd

burn'd Ivory, the Bone of a Hart
heart, the Shavings of Hart-horn,
the Unicorn's-horn, Bole Armenic
sealed Earth, Blood-stone, &c.
among the Compounds, the Powder
of Crabs Claws compounded, the
Goack-stone, and the Powders for
making the Confection of Hyacinth
take place.

Before all, I must observe, lest the nec-
cessary liberality of Physicians to-
ward the poor should be interrupted
that these precious Medicaments
brought from afar out of the *Indies* (for
as much as I could observe) have a
more pleasant and benign effect, than
those of a lesser value, and which the
wise Providence of God hath abun-
dantly supplied for the manifold use
of mankind.

And therefore I cannot recommend
the Magisteries of any precious Stone
however they be praised by a great
many. Surely, they have changed
their, whatever, native Power, into
such as is very Foreign. And which
before

before were most convenient for absorbing the Acid, but being now either sweet nor sour, are only made useless by too curious Art.

Of design, have I not mention'd the passing Accounts of Volatile Salts, whether they be Spirituous or Oleous, or of the Bezoard Mineral, lunar or solar; nor of the Spirit of Sal-armoniack or Hart's horn; yet the use of these Spirits is not to be intirely laid aside, even for these young ones: because, they do excellently absorb acidity, but are most dexterously to be administered, because of the great Heat that attendeth them. Upon this score, our lixivial Salts, the hot Cordial Waters, as the Compound-Pæony-Water, the Plague-Water, Aqua celestis, Mirabilis, the strong Cinnamon-Water, and the like, do fall much short of their wonted Fame, unless they be mixed with others, that are more temperate, in so very small a Quantity, that their burning heat doth become altogether unperceptible to the Taste. For these

Medicaments that overheat the Body, whatever be their Fame or Inestimable Value, though they should most impudently promise immortality to the self; yet will they easily consume the Bodies of young ones, and by degrees disperse their natural Heat, or transfer it to that which is Feaverish, and lastly become as useless for that tender Age, as Milk and Panadoe, for quenching the craving Stomach of a Plowman. For which Reasons, *Galen* most straitly bar Children from the use of his Treacle, however justly prepar'd, which tho' he so highly esteemed, that he thought it an infallible heal and Universal Remedy.

That the foregoing temperate Powders do absorb Acidities, is a thing so well known, that it does need no proof. And that they are the most safe, most certain and never failing Anodynes in the Gripes of Children, shall be evinced by giving them in a more liberal than the ordinary Dose, *i. e.* in a sufficient quantity for attaining the design.

nd. Moreover, I do boldly assert, that the mentioned Powders dexte-
 rously administred, do, with the same
 certainty that we know that the effects
 of Rhubarb are purgative, allay and
 assuage all the Pains and Disquiet
 of Infants from whatever Cause,
 except there be no hope left from
 whatever Remedies, because of some
 great Defect of the chief parts.

If in any violent Inflammation, we
 should let six Ounces of Blood, and
 if twenty, at least, were requisite,
 why should we accuse Blood-letting
 as useless in that Disease, when the
 too spare Administration of that Re-
 medy is only to be blamed. Like-
 wise, if one or two Ounces of the
 foregoing Powders, were requisite
 for the allaying of these pains,
 wherewith Infants are affected, what
 great success could we expect from
 the imperfect use of one or two
 Drams, when, at the same time, an
 Ounce is necessary? An exact know-
 ledge of Medicaments is the slender-
 est, if not the meanest accomplishment
 of a good and skilful Physitian.

The right use of Medicaments for
 satisfying the designs of curing, the
 adjusting both the kind and quantity
 of Medicaments to the particull
 Constitution of the Patient, from
 quaint Reflection upon the nature
 the present Disease; the exquisit
 knowledge of the Constitution, esp
 cially of people of full Age, b.
 whether it be Sanguine or Melanch
 lick; and whether the Feaver do
 mostly affect the Blood, or wheth
 Spirits be wanting and their streng
 weakened by that bustle and trouble
 and lastly, the right knowledge
 appointing Diet, are all more requisit
 to make a good Physician, than th
 most numerous Provision of Medicin
 Receipts, whence ever Collected. Ann
 if that be not true, the Apothecari
 being most Learned in Receipts wi
 easily excel the most Learned Phys
 cian, and his pratling Servant be equa
 to his Master; and also a Nurse, or
 least, the babling and Cup-Gossi
 Women being enriched with Book

of Receipts preserved from Generations, shall carry the Prize and Glory from the most Learned Physitian and the Apothecary, howsoever conversant in the Prescriptions of Physitians.

But that we may to our purpose, I use to help an Infant of a Year old, that is feaverish or tormented with Gripes (as it is for the most part) with these sorts of Medicaments.

℞ of the compound Powder of Crabs-Claws, of Pearls prepared, of each ℥i. mix all, and make a Powder to be divided into six equal parts.

Or ℞. of the Oriental Bezoard, of Pearls prepar'd, of Crabs-Eyes prepar'd, an. ℥ss. of the Species for the Confection of Hyacinth ℥i. make a Powder to be divided after the same manner.

Or ℞. of the simple Powder of Crabs-Claws, ℥i. of Crab's Eyes prepared ℥ij. of Cochineal viij. gr. mix all, and make a fine Powder to be

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divided

divided into six Doses. Let him take
 one instantly, let it be reiterated
 (if necessity doth require it) two
 hours after, and henceforth every 4th
 hour, for the first two days, unless
 that Sleep intervene. Let the Powder
 be given in a spoonful of the follow-
 ing Julep, drinking another after all.

℞ of the Alexiterious Milk water
 ℥iv. of Black Cherry Water, ℥ii.
 of the Compound Pæony-Water, ℥i.
 Plague-Water ana ℥ii. of Pearle
 Sugar 3℔. mix all, and make a Julep.

Or ℞ of Penny Royal Water, ℥i.
 the alexiterious Milk-water, ana ℥iii.
 of the Syrup of Clove Gillyflower
 ℥vi. M.

Or ℞ of Sweet Almonds, freed
 from their Husks, in number ℥v.
 Contuse them in a Marble Mortar
 pouring upon them by degrees, ℥i.
 Barley-water, of the Alexiterious mil-
 water, ana lib. ss. strain it, and to the
 colature, add of weak Cinnamon
 water ℥vi. of white Sugar 3℔. M.
 and make an emulsion.

Sometimes I use Juleps full of Pearle
 (omitting every thing else) ordering

the Glass to be well shaken before they are poured out.

℞ of black Cherry Water ℥iv. of the whole Citron ℥ij. Mirabilis, of Pearls prepar'd ana ℥ii. of white Sugar ℥ss. M. and make a Julep; of which let him have three spoonfuls as before.

But if the Infant be troubled with a Cough, the mentioned Powders are to be taken more sparingly; in lieu of which, he may take half a spoonful of a thin Lohoch or Electuary.

℞ of Corallin pulveris'd of the simple Powder of Crabs-Claws ana ℥ss. of the Syrup of Maiden-hair, of the Syrup of Althæa ana ℥i. of the Syrup of the Balsam of Tolu ℥ss. of the water of wild Poppy Flowers ℥ss. for diluting all; M. Bolc Armeick is most appositely mix'd amongst these, because, it doth most powerfully stop the Defluations that fall down upon the Lungs. The Juice of Penny-royal, in which when warm'd, there is Sugar-candy dissolved, is amongst the best of Remedies.

The

The Oyl of sweet Almonds, is also very proper, if it doth agree with the taste of the Infant. Likewise vive Sulphur, or the Flowers of Brimstone (having a wonderful virtue in drying, penetrating, and discussing Humours stuff'd up in any part of the Body) mixed with such things as abforbe Acidity, are very useful for gross and phlegmatick Constitutions. Neither hath Sulphur any hurtful or deleterious Faculty (as *Crato* and some other Learned Men did unjustly suspect) but is of a most preservative and expulsoy Virtue which is most opposite to Corruption of Humours.

The frequency of the Administration of these Powders cannot be determin'd, but are to be reiterate accordingly as the Symptoms are more gentle or violent. This only I shall resume, that all the Pains, Disquietts and Watchings of Infants, are certainly assuaged with testaceous Medicaments, as the Pains and Watchings of older people are eased and allayed by Narcoticks.

But here, any who hath but the least smack of Physick may object, that the giving of these Powders is no new thing. To whom I only do reply, that indeed, the foolish, spare and niggardly use of these Medicaments, hath been known too long, and to too too many; but that never any did inculcate either so reiterated, or so great Doses of them, nor yet the ensuing necessity of purging. There's a known Story (and any man may draw the parallel with ours) of a certain merry Man, who when he had boastingly defyed the By-standers, to fix an Egg upon either of its ends, neither any of them, after a great deal of Trial, could see through, or unriddle the Mystery, he himself, breaking a little both ends of the Egg, in a trice removed all their Astonishment, and at the same time made them break forth into laughter. For when it was known, it did become most easy to the whole Company.

I order them to be purged upon the third day, after I am called, unless the Small-Pox, Measles or Scarlatina Feaver do appear, and Infants of one Year after this manner.

℞ of the Syrup of Cichory with Rhubarb ℥ii. of the best Rhubarb in Powder, gr. xv. or ℥i. of the Alexiterious Milk-water ℥i. or of small Cinnamon Water, gut. xxx. to dilute all. M.

Or ℞ of the Syrup of Purgings Thorn ℥iss. or ℥ii. of the Powder of Diasenna gr. viii. M.

℞ of the Countess of Warwick's Powder, as it's describ'd in the last Edition of the *London Dispensatory*, in the rest under the name of the Cornachine Powder, gr. vi. Let him have it in a spoonful of black Cherry Water, sweetned with a little Sugar.

℞ of sweet Almonds, No. iij. Contuse them in a Marble Mortar, pouring upon them by degrees ℥i. of Barley, or of any other simple Water. Dissolve in the Colature ℥iii. or ℥iss. of the best Manna. M. and make a purging Emulsion.

℞:

℞ of lenitive Electuary ℥ii. or iij.
dissolve it in ℥i. of the alexiterious
Milk Water.

For irregular Symptoms arising
from a great corruption of Humours,
I do very much use gr. vi. of the black
Mineral afterward described, or gr.
iv. of sweetned ☿ with as much of
the Flowers of Brimstone mixed to-
gether in a Glass Mortar, and given
at Night in some pleasant Syrup,
purging the next day.

If the sick Infant be three or four
years old, or hath passed the hazard
of breeding Teeth, and especially if
there be any considerable suspicion
of Worms or Putrefaction of Humours
for some time contracted, there is
nothing better than a Bole of that
Powder last mentioned, and it may
be made with Marmalade of Quin-
ces, or confected Orange Peel, pulped
through a Hair-Searce.

These kind of Boles do very much
avail for those, who are ordinarily
constipate in their Belly, and are
not easily purged; in as much as
they do prepare, so that the Purga-

tive which is ordered the next day, hath a better and easier Operation.

I do sometimes also order the following Plaister, or the like, to be applyed upon the Navel.

℞ of the best Aloes from Socotrad Zi. of the leaves of Savine, of the tops of the lesser Centaury, of the Flowers of Chamomile made into a Powder ana Zi. of Venice Turpentine as much as is sufficient to make all into a Plaister. Spread a little of the Plaister *de Cymino* upon its Margine, that it may stick fasten to that place.

Of all Purgatives there are none more innocent, and that are more agreeing with Infants, than the well known and very much used Rhubarb, which pleasantly and safely doth remove the Subject matter of the Feavers of these tender ones, which doth easily purge and strengthen the Stomach and whole Body loaden and oppressed with vitious Humours, and which, upon that account, doth best agree with Infants, Boys, teeming Women, old People and such

as are weak through any Disease. Truly, Rhubarb doth more justly merit the Title of a Hiera or sacred Medicament, than Aloes, so exceedingly commended by the Ancients and more Modern, which has got the first place, and kept for the Basis of all the Shop Pills; which indeed doth sometimes deserve very great Praise, upon the account of its remarkable bitterness, yet it doth not unjustly undergo some Tache and Dishonour, because of its Acrimony, Sharpness, and its excessive Heat, which it doth communicate to the Body.

A Powder like the former is, after the operation of some gentle Purgative, to be given at night; and thereafter are to be reiterated three or four times, at a convenient season, for two days more; and upon the third the Purgative is to be given, the quantity of which may, now, be known by the operation of the former.

These things being done aright, the most grievous Symptoms do ordinarily disappear; or at least, are so

so much allayed, that the Patient who was just now in great danger is exceded from the least suspicion by better Health.

The same method (under what ever Form) of preparing and purging off the Humours, may be taken with Children of more years, onll Doses and Quantities of Medicaments are to be discreetly changed.

You must observe, that the first Purge we give to Children in Feavers, be not only gentle, but also of a lesser Dose than usual; and that sometimes, in case of a bound Belly, a very

very mild Clyster made consistiv. of Cows Milk sweetned with Sugar, and to which is added a little Salt, is to be injected on the night that immediately precedeth the first Purgative.

Moreover, if the Purgative shall prove too weak, it may be sharpened with ℥i. or two of the Crystal of Tartar, dissolved in some spoonfull of weak Oat-broth, or the like.

But you must especially take care that you only use pure and well-prepared

par'd Cryſtal of Tartar, and not that which is adulterated, and is commonly ſold, and which is little better than crude Tartar it ſelf.

If any great Sickneſs doth betake an Infant that is fat, plump, and of a very moiſt Conſtitution, which eaſily doth degenerate into an Acid (and eſpecially in Winter) ſo that the ſour Corruption cannot entirely be defeated by twice Purging after the foregoing manner; then, you muſt perſiſt in the ſame method, until the Sickneſs doth quite evanish: But that the ſpace of one or two days muſt be allowed for the taking of theſe Powders, that alter Acidity.

Neither could I ever obſerve any inconveniency or bad conſequence attend ſo frequent Purging; but the ſtrength that was formerly loſt, did ſeem to be renewed.

Only, you muſt beware, that in the purging of Infants, upon no occaſion whatever, you give any Purgative that may maſter its ſtrength.

Wherefore, I cannot paſs by what *Hippocrates*, the greateſt maſter of Phyſick,

Phylick, doth learnedly declare, in his
 Book about Purging Medicines; but
 not so well understood. *Whoever*
then, are seized with strong Fevers,
are not to be purged until the Fever
doth remit. If otherwise, yet not with-
in fourteen days. For their Flesh and
Stomachs, being they are hot, do
receive the Medicament, and are not
purged; the Fever encrease, their
Colour is ruined, and they have a sort
of Kings-Evil. For when the Bile is
chafed and put in motion, the sick
Person will neither sup nor drink, but
loaths every thing, and very often
dieth. But, if he survive that time,
and his Fever doth remit together with
the operation of the Purgative, he re-
covereth. Wherefore, we ought not to
give purging Medicines in violent Fe-
vers. But if any do want them, you
may give an infusion by Clyster, as
often as you list. For in that, there
is less hazard.

We may observe from these words
 of our Master: 1. That he doth
 speak concerning the Fevers of those
 of full Age, which are usually great

and most ardent, but are not to be understood of those of Infants and Children, which are naturally gentle, and not so easily inflam'd. 2. That the purging Medicines in his time were most violent, strong and poysonous, as *Elaterium*, *Colocynth*, *Hellebor*, and the like, but the great part of our Laxatives that are most gentle, yea most temperate, if some of them be not actually cold, were as unknown to the wise men of that Age, as the Antipodes, the new world, or lastly the art of printing. 3. That *Hippocrates* doth speak of Feavers in their natural state and condition, and as they are left to themselves, even as his Descriptions of epidemick Diseases truly and accurately contain it; neither must he be understood, after what manner the rest of the following, especially of the present Ages (however things present are ill spoken of by the Envious) being promoted and made more perfect which our Posterity, if I be not in a huge mistake, will most thankfully bring into remembrance) at length hath taught, how to prepare aright, that

that they may be purged off, and very much allay or totally to overcome their Fury, by liberally bleeding such, as are of full Age, upon the day that precedeth the Purging. 4. You must consider that *Hippocrates* doth teach in this place, that if he who is affected with Fever hath taken a purgative, and perhaps, doth escape the hazard on that day; shall instantly, *i.e.* at that same very time be restored to his Health. Which I have often observed to be true, and that Feaverish Boys have shaken off all the Symptoms of their Feavers, after the first Purgative hath ended its operation, but especially in the spring time or Summer.

These things then being premised I say that *Hippocrates* did judge aright of the deadly effects of Purging Medicaments, as those of his Age, being very strong, were unskillfully given in hot Fevers, not having let blood before hand. But, we take a sooner and more secure method for the recovering them to health, if blood be liberally let of those of full Age, and especially

specially if they be of a Sanguine or robust constitution, upon the day that precedeth the purging; or if the bodies of young ones be prepared with effaceous Medicaments and such as to blunt the Acid, that the chief cause of the Feaver may the better be utterly purged off, than can be, by whatever Cordials or Diaphoreticks.

But the true and chief reason, why purging in Acute Diseases hath been so little thought of, by very learned Physicians, seemeth to me (quietly and under thumb) to be this: because *viz.* they did drive, as people speak, *be plough before the Oxen, h.e.* they did purge before bleeding, or at least having no thought of it, where it was most requisite, did rashly give some one of the strongest Purgatives.

Albeit, that any notable Translation of the subject matter of the Fever into the Lungs, and Chin-coughs, do advise Blood-letting for the youngest Infants, yet it is most evident, that it is not a Remedy naturally convenient

ent for them, neither is it more contradictory and unfitting for this most tender, then decrepit Old Age. And therefore its help is not to be invoked for all the Diseases of Infants, except in the Chin-coughs, or any other Coughs that do attend and are comitants of Fevers that do suddently begin; and unless for grievous contusions, which do sometime occur. For it is not supposable that Infants being nourished with thin and slender Food, should be affected with a true Plethory, however florid they be. They do all abound with Humidity which is easily changed into a Præternatural Acid, the cause of all their Diseases. Neither can I be made to believe that blood-letting can alter or correct an humid Constitution, especially when it hath already degenerated into Acidity.

There are some who, through obstinate itch of contradicting, censure and blame and accuse the use of Blood-letting even for people of full Age. And these are the Through-followers and

Disciples

Disciples of peaceable *Helmont*, that most trusty Friend of the Old Medicine; these happy and fortunate Heirs to so great Secrets, of which neither Physick or the Common-Wealth have been worthy. It's they, viz. who have succeeded to a not common sort of Chymistry, unknown to all skilled Physicians, but which produceth wonderful Effects to these Philosophers by the fire.

All testaceous Medicaments do wonderfully dry, and, therefore, are very proper for the curing of these Diseases which proceed from too much Humidity, and for these Constitutions which so much abound with it. But the Constitution of boys is most humid, because it is of all the most delicate and soft. But they are also somewhat astringent, which is lost by burning, yet thereby do they assume a good deal of Acrimony and Hotness, which are most evident in Quick-lime, and a great many more Chymical Medicaments. But they do also most powerfully blunt and defeat Acidity, which is naturally attendeth the corruption

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of

of Aqueous Humidity, as Heat doth in Fire. Moreover, testaceous Medicaments do not at all warm their tender bodies; which consideration doth easily induce me to prefer them to all other in the cure of Infants Diseases.

But there are other things for which I recommend the use of Testaceous Medicaments for Children. Their Stomach is endued with a devouring and insatiable sort of Ferment, which delicate and liquid Food cannot still quiet for any time. Being it must be blunted with Butter which swimmer long upon the upper Orifice of the Stomach, or be nourished with Panada or Pudding, which are not easily cast out of the Ventricle. And I have frequently observed sick children feeble and dull, only because they were nourished with too thin and liquid Food. Wherefore, testaceous Medicaments are, upon many Accounts, very agreeable with the Nature and Constitution of Children; neither doth that change or alteration made by them, in the Stomach, wear off so soon as that which is made by Liquid Medicines.

That I may say nothing of very many Fowls, which, when drooping by a Pica or depraved Appetite, have been recovered by Sand cast amongst, and swallowed down with their Food, as the Poultry-women do very well know.

By testaceous Medicines, I do not only mean strictly those made of Shells, but Coral also, Corallin, both the Berzoars, and the like, which are known to absorb Acidity, and are of the same nature, although they be quite of another Origine.

These Medicaments have been much used by Physicians, but their use, as adjusted to Children's Constitutions, was either altogether unknown, or was of very small help and advantage. For their too too spare Dose, was truly the cause, why Physicians, in the Watchings and Pains of Infants, fled from these sure and safe Remedies, unto Opiats, which are by far the more dangerous, if not hurtful and diametrically opposite to their Nature and Constitution.

And I cannot but relate, how I was once mocked by a very famous Physician upon this account: Whom viz. at my desire he was called for assisting in the cure of a Noble Child, the Heir of very great Possessions, who was ordinarily entrusted to my care; and at that time was sick of a most dangerous Fever, and when, he proposing a Narcotick instantly to be given, unexpectedly found me refractory to his design; *You*, said he; *if so you be resolved, do seem to practise after a way that's obsolet and out of fashion*; to whom I replied; *That I did not, neither would I ever practise for Children as is now the custom.* Being, I do as surely, yea more certainly (unless I be entirely deceived) and, at least, more safely allay all their Gripes, lessen their Watchings, and assuage their Pains, by the fore-going Medicaments, than any can do (however they esteem Narcoticks) by these kind of Remedies, given with the greatest hazard of their life.

I know no such mad admirers of Opiats that ever recommended their use for the weakest Constitutions; though some, even in this case, have covertly tryed their strength, Remembering, perhaps, the proverb, *that dead Men tell no Tales.* But being the Pulse of Infants is of all the most weak, their Constitution naturally the most tender, and their strength very infirm, I cannot conceive, why any should make choice of uncertain and dangerous Medicaments for the curing of Infants Diseases, when safer, yea the most safe may be as easily purchased.

This also I shall add, that scarce any of their Maladies however tormenting, did require the least tasting of Narcoticks, properly so called, ever since I had sufficient knowledge of the most anodyne, yea so poriferous power, for Infants, of these testaceous Medicaments; providing, they be given in quantity sufficient for attaining the Design.

But as no Opiats are to be approved of, for Infants Diseases, so neither can I recommend any liberal use of these hot Medicaments, however salutiferous and cordial they be in their Name. For the word Cordial hath been curiously and with abundance of artifice contrived for the soothing of all the Gay-women, for the taking off Country-women, who, very often, dwell far from skilful Physicians; for good Matrons who, with so great honour, use these Cordials for all Diseases in their Eleemosynary Practice; and lastly, for pleasing the ignorant upon all occasions. For who could expect any evil by the taking of a Cordial? Yet it may be a question amongst Learned Physicians, whether of those who have ended their days by a natural Death, more have truly died by Diseases or by these Cordials. It is most certain, that whatever things do encrease the Symptoms of the Disease, augment Drought, make the Tongue dry, or intend the Feverish Heat, are of all, least convenient

ent for, and agreeing with that tender Age, that can give no resistance to any Injury that is offer'd unto it. And truly, I have always found sundry, that I say not deadly, mistakes attend that hot guiding of Infants, when I could never observe the least inconveniency from the frequent use of these temperate Medicaments.

But any may object, that Obstructions must of necessity be produced by the use of these hard and almost stinty Medicaments, and that these things should render their most tender Constitution, and the most small passages of their Body very subject thereunto.

But that we may the better obviate this Objection, you must remember, that the genuine Parent of all Obstructions is an Acid Distemper, which Infants do frequently contract from the coldness of the Air and the tenderness of their Constitution, however delicate and pure their Food be. And therefore, whatever things

do correct, mitigate or blunt this Acid Indisposition, or can dissolve Coagulations (all which, these do without the least addition of Heat) are most fit to remove Obstructions and the great Train of Symptoms which proceed from that Cause.

Others perhaps will accuse me: that I do too easily pass by the most famous Doctrine of the Crisis and that I may seem to forget the computation of critical Days, so nicely instituted by the Ancients, and much commended to this day, by such as admire only things that are past understanding. Therefore, I say, being the Crisis is only a sudden change in the Disease, either to Health or Death, it doth entirely depend, for as much as I can observe, upon the method of Cure (especially in these tender ones, of which we speak) and is hastned or produced by the industry or unskilfulness of Art. For, being the Cure is mainly stayed upon general Evacuations duly made, these Crudities which are the:

the cause of Fevers, are sooner concocted than at any other time, part of the Morbifick Matter is immediately eliminated, and the rest exceeding the natural strength, giveth way to Medicaments dexterously administered. But, when the Humours are exagitated, and the Spirits driven to greater confusion by Diaphoreticks and Cordials so called, and the whole stress left upon Clysters, which never pass the gross Tripes in perfect strength, as the Concoction to the Crisis, is too late, if ever to be expected, after so learned and so solemn a Train of Medicines.

But lastly, a Crisis, methinks, is nothing else than the last effort of Nature, to evacuate with all its power the morbifick Matter by convenient Passages. And that hapneth very often with us by sweating, because of the Cross use of warm Guiding. Though very often by *bleeding at Nose, by Stool, by Vomit,* and *sometime by Urine.* All which, do sufficiently prove, that Nature her

self, the best and wisest Physitians
did never design or endeavour any
other way of judging Fevers, than
by timely *Evacuations*.

There are many things variously
written and maintained by Arguments
in this Learned Age, concerning
the use of Precipitating Medicaments
in Physick, as that all Diseases
wherewith man is affected might
easily be over-come, and cast off,
if we had a perfect knowledge
the proper and specifick Precipitating
Medicine fitted to every Disease.
But you must observe, that we are
speaking of the Acute and Feaverish
Distempers of Children, which
quickly determine of their life; and
not of those that are lasting, which
give greater delay to the Curer, and
do more safely allow of a curious
Tryal of the new Powers of things.
Again, Precipitation is the separation
of the grosser parts, which is
the strength of a dissolving Acid
do hang imperceptible in any clear
Liquor untill they fall to the ground,

being

being freed of their Bonds, by the
 help of such things as defeat the Acid.
 Moreover, the *Crudity*, which we
 constantly see in Fevers, is, methinks,
 the genuine off-spring of prevailing
 Acidity; and the concoction a sign
 of its being defeated, and overcome
 by Nature. And therefore artificial
Purging bringeth to the ground of
 the Body these Crudities which were
 carried upward, and seemeth more
 properly than all other Medicaments
 to precipitate, that at length they
 may be cast out by Urine or Stool.
 But also, whatever other kind of
 Medicaments (tho some airy meta-
 physical Brains, Philosophers, as they
 call themselves, do think quite other-
 wise) is endued with a Precipitating
 faculty, yet scarce doth it, in any
 measure, produce that effect, but as
 it is *Cathartick*. For neither must
 it be thought that Precipitation can
 so easily be performed in a Body
 of divers parts, various Juices and
 Humours, and of so many Passages
 and Windings, as a Juggling Chy-
 mist, by pouring in Liquors of diffe-
 rent

rent sorts, doth wonderfully change
 their Colours, or so soon as he doth
 make his Precipitations, called Ma-
 gisteries. Being, then, that *Fever*
 do assault the vital and upper parts
 and so leave no time for uncertain
 and dangerous Trials, it becometh
 wise Physitian not only to appease
 and allay the subject matter of *Fever*
 with fictitious and precipitating Me-
 dicines of no value, but with all speed
 to root it out, with such as are true
 and genuine, *h. e.* by timely *Evacua-*
tions.

But being it has been, yea is, the
 custom of many famous Physitians
 to hasten the defeat of *Fevers* by
Sudorificks, it may much concern us
 to add something upon that subject.

So soon as they observe any person
 seized with an *Epidemick Fever*, im-
 mediately they dream of, I know not
 what sort of Malignity, and this they
 constantly strive to expel with ver-
 hot preserving and sweating Medic-
 aments. In the mean while, the gentle
 meek, and not at all unruly *Fever*

by the very cure is (if at all) rendred
Malignant. For when the Serum, the
 common Vehicle for carrying the
 Blood through the Veins and Arteries,
 is consumed by untimely Sudorificks,
 it is no wonder that the grosser parts
 of the Blood are interrupted in their
 motion, and do a little Stagnate; and
 that thereby, the Pulse be weakned,
 and doth become unequal, surging,
 tremulous, crawling, and intermit-
 ting; and upon the same Account, the
 Urine be but little & very crude; and
 lastly, that *Freckles*, *Purple Spots*, and
 sometime *Pestilential Blemishes*, (the
 sundry degrees of a forming or form-
 ed *Gangreen*) the chief marks of
Malignity do appear. And the con-
 stitution, which a little before, was
 endued with much moisture and a be-
 nign warmth, is now dried, burn'd
 up, and altogether parched, with
 the excessive heat of this warm guid-
 ing; so that thereby, there doth nei-
 ther remain a sufficient quantity of
Lympha, which is designed to bedew
 the parts, neither can the Blood, be-
 ing now thick, and stagnating every
 where,

where, flow or move longer through the Vessels to continue the course of Circulation for preserving Life.

But I shall only offer to the consideration of these, who will retain and are blindly in love with that unhappy notion of *Malignity* (considering that it is a word that safely cloaketh the deadly consequences of their daily ignorance) the common practice amongst the *Turks*, as I was informed by very honest Merchants, unlearned indeed, but truly rational, and most natural for the cure of the Plague it self, the greatest of all *Malignant Fevers*, by the Juice of *Lemons* largely drunk in Broath, by constant eating confectioned *Limon Peel*, and by a Drink much used amongst them, called *Sherbet*, and in plain *English*, by nothing else than a cool Diet; in as much as *Mithridate*, the Treacle of *Andromachus*, the Root of the *Virginia Dragonwort*, and the great Train of our hot *Medicaments*, are most luckily, all together unknown to, or in very small esteem with them. Neither then,

is it any wonder that the *Plague* (so terrible to an English Man) doth make no so great havock among them, as a gentle Fever in Learned Countries.

How silly and childish is it for Physicians to call Fevers *Malignant*, because *smittle* and *contagious*. For, if *Contagion* did necessarily indicate or prove the existence of *Malignity*, how evidently should we read the *Itch*, in the *Category* of *Malign Diseases*. In which, tho neither strength doth fail, is the Appetite lost, or the Urine or Pulse differ in any thing from these in healthy People; and lastly, in which the Animal and Natural Functions are intire. Surely, Diseases which have any great *Inflammation*, are not altogether free of *Contagion*; as the *Plague* it self, of which I speak, as the *Small Pox*, as the *Measles*, as the *Chin-Cough* of Infants, and other Diseases of that kind, which reckon their Being from intense Inflammation.

But

But as to what may be said of *Sudorificks* for Fevers. I do not deny but that either natural or artificial *Sweating* may be of very great use in the beginning of Fevers, when the Pores of the Skin are only a closing, and when the sensible or insensible Perspiration are interrupted. But the *Sudorificks* you are to use, should be *temperate*, and not such as create inward Burning. Neither should they be *dry* or so spirituous as to add Fire to the Flame, but *Liquid* and *Culinary*, which may supply an abundance of matter for forcing out the Sweat, and may provoke it, not with its essential, but outward heat.

There is one thing very well worth our notice, neither at all beside the purpose, which I cannot pass by. That *Fever*, viz. which raged last year, and whose History I shall just now give in few words, was also called *Malignant* by some Physicians who are very well known by their great use of Diaphoreticks.

A sort of Fever (with which who-
 ever were affected, did mostly com-
 plain of slight pains which seized all
 their Joints by course, of a pain of their
 Head, especially of the fore-part, and
 lastly of a kind of Giddiness) was so
 epidemick from the middle of *May*
 of this last year, for some weeks,
 that I did never observe any such,
 upon whatever account, or in any
 season of the Year. A great many
 whole Families were affected with
 that Fever at the same time, that
 scarce one of many could eschew
 that general Calamity. But the be-
 ginning of this so Epidemick Fever,
 did truly seem to me to have its
 rise, from the changeableness of the
 season of that Year, the sensible Per-
 spiration of the Body, being then
 stopped, and the Pores which were
 very open, being shut up on a sudden
 by the excessive Heat of some days
 suddenly changed into Cold. This one
 thing we may observe, that never
 ere there so many Sick at one
 time, and never so few died. All
 indeed, that were sick of this Fever
 did

did recover Health, as well by wro
 as right ways of Curing, by Bloo
 letting, viz. by Purging, by Sudor
 ificks, by all the Womens Curre
 whether they were Culinary or Me
 dicinal, by staying at home for some
 time, by going abroad, by riding,
 any other Exercise, in time of a
 trouble, and when free of all ca
 and lastly, by doing any thing,
 not doing. But if any died in th
 most gentle Disease, they were you
 men of very hot Constitutions, an
 abus'd with these Spirituous Sudor
 ificks. The only thing we may y
 observe upon this Head, is, that
 should fear, that the nature of th
 Fever which was so gentle and benig
 and which was so easily defeated
 well by improper as healthful Rem
 dies, shall, perchance, have cruel an
 deadly effects: Truly, these G
 Women and Common Quacks, m
 expect in vain that desired Succ
 from their Cordials, and I know r
 what sweating Medicines (wh
 another season of the year shall
 very opposite to their Cure, and a

Feaver

ever shall appear attended with
 very terrible Symptoms) they seem'd
 have approved in a most gentle
 ever and in the Spring, a time much
 favouring whatever ways of Curing.

Before we do bring some Examples
 Cures performed by the benefits
 my method, I will adjoyn some
 things that do belong to the most
 ordinary Symptoms of Infants; lea-
 ving to the curious, such as are com-
 monly to be found among the Au-
 thors.

Among the many Diseases that do
 threaten fore the life of Infants, there
 none that produceth so many grie-
 vus Symptoms as their laborious and
 difficult breeding of *Teeth*. The
 sickness of nine months (which may
 more justly be thought the *Source* of
 innumerable *Miseries*, than the womb)
 doth not expose Mothers to greater
 hazard, than *Breeding-Teeth* doth
 their Off-spring. For, being the
 gums of these tender Ones are fre-
 quently inflamed, after the same man-
 ner

ner as the other parts of the Body
 such as are of full Age (whence come
 these most ardent Fevers) because
 the Teeth cannot arise from the
 small holes, we need not wonder
 that their tender Bodies are so
 quieted with so many most grievous
 Feverish Symptoms. From the same
 Fountain do arise their Colick-pains,
 Watchings, Disquiet, Flux or Corruption
 of the Belly, their Green Vomit
 and Excrements, the Thrushes, Fevers,
 Convulsions, and the like; all which
 do easily yield and surrender to,
 most, the same method (having always
 respect to their Age and the violence
 of the Symptoms) of allaying and
 temperating the Acid, and afterwards
 purging it off; except, that the
 case shall change its nature from
 which by its continuance, giveth
 to the cure, into such as is
 be very complicat'd and hath taken
 sure footing in the best parts of
 Body, that it cannot be cured;
 these Evils be twisted in, and
 with the first Life of the miserable
 Infant.

There is a *Twofold* time, trouble-
 me to Infants in the *Breeding of*
Teeth: The first is, when the Tooth
 Fayeth to break out of the Jaw-
 bone; and in which, the outward
 part of the Gum is circumscribed
 with a sort of white Circle without
 any Smelling. The other is, when the
 Tooth becometh bigger and larger
 continually swelleth the Gum, maketh
 inflammation, and doth endeavour to
 break through with all its force. The
 Chyrurgeons do unskilfully cut the
 Gums of the Infant, in this first effort
breeding Teeth, as well as in the se-
 cond, that, *viz.* the Teeth may more
 easily break through, so the Wound
 promiscuously inflicted without any
 necessity, and very often with as little
 help, when upon the second occasion
 (which should be diligently observed)
 is only requisite.

There is something else to the same
 purpose not unworthy our observing.
 That, *viz.* some *Chyrurgions*, when
 they are ordered to lay open the
 swelling Gum, do it with a common
 Lancet;

Lancet; which hath ruined a great many. For being a Cicatrix is easily induced upon a Wound made by this thin Instrument, neither does there any hole abide, through which the Tooth may break, so this operation is altogether useless, and all other Remedies are neglected for it time. Physicians, therefore, should take care, that this *Incision* be made with a more convenient Instrument, whether that be a *Pen knife*, or another, which riseth in the back like a *Razor*.

Being *Thrushes* do proceed from the sharp Vapour of that inward Flame, which doth fret and pierce the tender Skin of their mouth, even as the other inward parts of the Body we should only make choice of those things that do most powerfully deffuse and blunt this Acrimony. But *Gargarisms* and *Medicines* for washing the Mouth are of no use in this case. For Infants can, by no means, wash their Mouth, unless it may be thought to be done accidentally in the swallowed

g down ; because every thing that's
 given them to wash with, must go fur-
 ther ; yea, that very Humour which by
 coughing, is cast into their Throat,
 immediately falleth into their Sto-
 mach, if it be not attended with
 vomiting. Neither is that stuff,
 whereof Gargarisms are made, so
 tirely innocent, that they can safely
 be given to Children. It's certain,
 that these *Thrushes* (however they
 disturb or hinder their Sucking) shall
 be removed by Testaceous and gently
 purging Medicaments ; neither do I
 see, why we should too learnedly
 use so great Art for the attaining of
 that Design, when fewer and more
 simple Remedies may have these most
 safe and excellent Effects.

But the reason, why the superfi-
 cie of the mouth is so convenient for the
 producing of *Thrushes*, when no parts
 of the Body are blistred, is, be-
 cause the same Skin which cloatheth
 the mouth, is communicated by a con-
 tinued Series by the Gullet unto the
 stomach. Wherefore, these sharp
 Vapours,

Vapours, which do proceed from preternatural Effervescency of the *Humours*, dy about the Hypochondres, carried upward, as from a Caldron by the vent of the mouth; and very easily communicate their *Effluvia* to the membrane of that part. Therefore doth the delicate taste of the tongue so readily distinguish all relishes. Lastly, upon this count, are Physicians, by their looking upon the *Tongue*, able to judge of the prevailing temperament of the Body.

The Flux of Infants proceeding from a mixture of Humours falling down into the Intestines, or from a swelling of Bile with an Acid, which is in great abundance in that place, neither to be arrested by *Astringents* properly so called, or *Narcotics*. For *Astringents*, do cause a reflux of these sharp Humours upon the most noble parts; which doth cast such, are of the most humid and fluid Constitution, into the greatest danger of their life. *Narcotics* indeed allay, for some time, the furious swell

swelling of the Humours, that, as often, they may afterward break out, with greater force. Moreover, the delicate strength of these young Children, and which is much weakened by the Disease, is seldom able to endure the mighty operation of *Opiates*, but with the greatest hazard. But such Medicines as do appease that sharpness, the great spring of all their trouble, are given with greater safety, & are more agreeing with their constitution. Though the use of *Dia-cordium* and the like, which do consist of both these sorts of Medicines, be in such cases (where there is no *Fever*) of very great use and advantage; yet it is well known, that these do not want their danger in the hands of Infants: and that *Chalk*, *Crall*, *Pearls*, and others of that kind which mitigate these unruly Humours, without the kindling of new heat, that at length they may be purged off with *Rhubarb*, are of singular use for the overcoming of these Symptoms, and bringing a more easy Relief.

It is most evident, that they are of as great use in Vomiting as Fluxes. For so long as that which is the trouble lodgeth in the Region of the Stomach, and Acidity doth most exert its power in the first Passages, these Medicines do impart what strength they have, pure and intire unto the Ventricle. Vomits, as the Salt of *Vitriol*, *Vomiting-wine*, *Emetick Tartar*, &c. seem to some, to be far, preferable to all other Medicines; but if considerations from their tender Age, and great feebleness have any place in giving of Vomits, and if the easie solution and purging of Coagulations can be procured effectually enough, yea, more safely by things that offer no violence to Nature, and bring the life into no danger, than by *Vomiting* or *Stupifying Medicines*; truly a prudent Physician will abstain from, and abhor all such.

Neither do they only avail in Fluxes, but for the Gripes of Infants from whatever cause; for which

tho

they are not only excellent, but Pro-
 ver and *Specifick*, if there be any
 such; I do not think the *Jesuits Bark*
 the best of all the Medicaments of
 this Age) more *Specifick* for Inter-
 mitting Fevers, neither *Opium* (that
 other famous Medicine) more pro-
 perly to allay *Watching* and *Pains*, than
 these afore-mention'd *Testaceous Medi-*
cines do the *Gripes* of Infants. For albe-
 though any curious person may perhaps find
 among th'almost innumerable Experi-
 ments that do happen, by so many
 singularities borrowed from Mothers,
 the great variety of Constitutions,
 some single instance here and there,
 that may impugn my Hypothesis, yet,
 that is to be intirely attributed to the
 constitution very much depraved,
 and not to any defect of the strength
 of the Medicine. It is most certain
 that the *Bark* it self, commended all
 the World over for a *Specifick*, is
 altogether convenient for *Asth-*
matick people either affected with an
 intermitting or remitting Fever. Yet
 it is most deservedly esteemed the
 best of *Specificks* for Diseases of that
 kind,

kind, and especially for those
the first.

Yea, our *Testaceous Medicines*,
which if you add a little *Castoreum*
shall be found of more innocent Ef-
fects, and to have greater force
gainst Convulsions (or Epilepsies, w
ry often improperly, so called) either
from the decay of strength, or from
the sharpness of the morbidick Ma-
ter, extimulating the Nerves (howe
ever they have hitherto been thoug
trifles, and of no value by some) th
either the *Antepileptick Waters* whic
warm, very much, these tender ones
or the *Volatile Spirits* which, lik
fire, break through all the parts
their Body, and which very oft
do produce most ardent Heat from
very small beginning. For being
the inward coat of the Stomach
wholly Nervous, and, therefore, t
fitter to transmit the vertue of t
Food and Medicaments into the
ward parts of the Body, and being
the Spirits of this, as these of t
other parts of the Body are irri

ted, and set on irregular motions,
I think it most necessary, that
the cure be performed with these
Remedies, which absorbe the Acri-
mony that offends the Nerves, and
truly allay the tumult of the Spirits,
and induce sleep without stupefacti-
on, and not with such, as make great-
er Confusion and encrease that Heat
which so much aboundeth.

Very many things esteem'd *Speci-
ficks for Convulsions* (whose Names I
conceal, being they are most com-
mon in the mouths of all) have been
commended as well by the greatest
Authors, as the most famous Practi-
tioners. Yet their Vertues (for as
much as I could observe) did never
answer my expectation. In the
Convulsive Paroxysms of Infants,
seeing they do constantly arise from
the sharp Matter of the preceding
Gripes, that doth vellicate the Nerves,
those things which obtund, allay or
blunt the Acid without any new
heat or warm'th of Body, and those
which carry off the Acidity, thus De-

seated and despoiled of all its Anglers shall at length, after all other things tried in vain, be found only of sufficient force for vanquishing this formidable Symptom.

I had a great confirmation of this assertion, in the Daughter of James Lowry, a Girl scarce a year old who was seized with the greatest the most violent, and most frequent Convulsions that ever I did see, which had disquieted her Lips, Eyes, Jointss, yea and all her Body with very small intermission for many days before I visited her. She was very pale and ob a most formidable aspect, her Belly was constipate, and the little that was cast out was very green. She howled with a high voice, for as much as her strength seem'd to be cast down, so that she raised the compassion of the Neighbourhood. During all these Convulsions and Colick pains, she scarce consumed a spoonful of Food, but was sustained by some sort of Cordial. I assisted and happily cured this miserable Infant with no other
Me-

Medicaments, but some Ounces of *Crabs-eyes*, mixed with *Crystal* of *Tartar*. She was constrained to swallow down a scruple or more of this most simple powder, every hour, in *Pennyroyal Water*, or the like; after the frequent giving of them, she fell upon sleep, and had these Convulsions much lessened. I ordered a Clyster of sugared and salted Milk to be frequently injected; until at length, the *Crystal* of *Tartar* (which doth not only purge very gently, but is also, very aperient, if it be taken in sufficient quantity) had made way for it self down ward. By these few and no greater Train of Medicines, was this Infant, seemings devoted to Death, unexpectedly indeed, recovered to perfect Health. But I do not understand (that I may quietly say so) why we should further torment these tender Ones vexed with Convulsions, and destroyed with Watching and Disquiet, with Vesicatories applied to their Neck or other Parts, being that kind of remedy seemeth more proper and de-

signed to rouse from stupefaction
those that are affected with
Coma.

Why may not I add that, since
I first used this commended methood
for the curing of Infants, at my first
entry I have seen many seized with
Convulsions, and some so weakn'd
with them, that they had no strength
to swallow down any kind of Me-
dicament, but that I do not remem-
ber of any of these tender ones, that
being perfectly cured by the use of
these Powders, ever suffered a Re-
lapse.

The *Small Pox* and *Measles* of Infants,
being, very often, a gentle and calm
effervescency of the Blood, they are
not so sick, when neither the assistance
of Physicians is desired, nor the great
Skill of the Nurses, who think so
well of themselves, is craved. But
when the unruly force of the Blood
doth justly require the help of the
Physitian, the *Testaceous* Medicaments,
so frequently spoken of, have the
same effects with *Children*, that Nar-
coticks have with *People* of full Age.
But

But these Volatile Spirits, which are, so much used, the Cordial Waters-*Mithridate*, the Treacle of *Andromachus*, and the rest of these hot Preserving and Diaphoretick Remedies, are chiefly to be eschewed, which are designed to thrust out, with more haste than good speed, these Pushes; but which instead of being Cordial and Expulsory, as [is pretended, do very often change the naturally] gentle *Small Pox*, into such as are more dangerous; and do move, disturb, and turn inward the *Measles*, otherwise easily disappearing from upon the Superfice of the Skin, introducing deadly Difficulties of breathing and choaking *Catarrhs*; and lastly, they seem most designed to inflame the Blood, which is yet but moderately and slightly warmed.

Reflecting upon the nature of the *Small Pox*, I have frequently admired, how this hot kind of guiding hath so much prevailed, not only among the Foolish Nurses, but Physicians, other-ways, very learned; being this Disease is so very hot; and, being

all *Suppurating Medicines*, properly so called, which are ordinarily applied to any one or more swelled parts of the Body, that tend to Suppuration, should be, by the general consent of all Physicians and Chyrurgeons, very temperate; as are the Roots of Marsh-mallows and Lillies, the Leaves of Mallows, *Althæa*, Bear-foot, the Meals of Linseed, Fœnugreek seed, Wheat; Butter, Fat, Oyl, the Yolk of an Egg, Mucilage, Marrow, and the like, which are not hot. For hot Remedies either taken inwardly or outwardly applied are truly discussing and rarifying, and of a quite contrary nature to those former. Moreover, these do really disturb Nature in her work of Suppuration, and necessarily drive all into a strange confusion. Wherefore *Terraceous Medicaments*, whose strength and vertue is most temperate, which in their benign and gentle Nature are next to those that suppurate, which exceedingly resist the Universal Corruption of the Body; and, lastly, which neither interrupt the Animal or Natural Functions, or render them irregular

gular; are of all the most eligible
for *the cure of the Small Pox.*

I could maintain, at more length,
this Cause, and so, extend the limits
of this Work beyond measure. But
I will not longer detain the Reader
with Scholastick Impertinencies, which
are altogether useless in Practice. I
will not hunt after an Umbrage
and Shadow, of more than ordinary
Learning by the specious Citations
of Authors, cavilling among them-
selves; and lastly, I will not subtilly
undermine the Opinions of other men,
that I may triumph over their Igno-
rance, and that, upon any account,
I may establish my own. For I know
very well, how hard a task it is to
enquire narrowly into the verity and
truth of things. I know that he hath
come nighest to the Truth of any
thing, who shall be found to have
erred least, however men do upon
any trifling occasion set up their
Crests, and assume a degree of perfect
Knowledge in this or another Science,
when Men can make no progress
beyond the natural Limits of their
Weakness

Weakness and Frailty. And truly the more knowing any Man is than another, the more humbly and submissively doth he demean himself. But there seemeth to me, to be a certain moderate comprehension of things, and bounded with the same proportion of Knowledge, diffused by degrees upon every Age, that, viz. none may unjustly upbraid the other of ignorance. Truly, we have lost, by the great changes of humane Affairs, very many things which might perpetuate the Memory of some former Age. Neither are there wanting in the present Age (whatever th'envious may deny) Discoveries that deserve the best Praises, which shall *Nobilitate* the *Art of Physick*, while it is an *Art*, and hand it down so refined to be sacredly preserved by Posterity.

And now I shall give some *Examples* of *Infants*, cured by this our method; but not with that design that these my small and pitiful Endeavours should be preferred to all other more learned Methods; for I cannot determine what others of better Judgment

men

ment may do. Thus only, I do send unto the World and for its use, such things as by my Experience, are found to be really *true*, or very near to the truth (leaving always to others the same power of judging we have assumed to our self) and which I doubt not, may be of great use to some.

Observation I.

A Very Noble Infant, th' Eldest Son of the most Illustrious Lord, *Charles* Marquess and Earl of *Worcester* (a Man of an Infinite quickness of Spirit, and very capable for the greatest Offices in the Kingdom, whom all the Changes and Vicissitudes of Humane Affairs could never divert from his singular Integrity) being of a very succulent and sanguine Habit of Body, but whose Nerves were very weak, and very often troubled with an Acute Fever; but its Matter did most especially derive it self into his Lungs. In the mean while, his Lordship was affected with a grievous difficulty

difficulty of Breathing, which, especially, in his sleep, was most sensible to the By-standers. A Paleness did seize his Beautiful Face, Drought especially, and violent and burning Heat of Skin, with Tumbling, and continual Disturbance, quiet, did oppress him.

I let him Blood somewhat largely from his Arm, and then most successfully used that method which I have described, whereby the Fever, with all th'other Symptoms were defeated, and Health restored.

But the first time that I visited that Noble Infant, was upon the 14th. of June, 1685. when he was 14 months old. But he was much weakned by a *Chin-Cough* at that time, when he was first committed to my care; Doctor *Short*, a most Excellent Physitian, being call'd to my Assistance. And by our common Advice, were taken four Ounces of Blood from his Right Arm: Truly, I did propose, a more liberal use of Pearls, and such things, which allay too much Acidity; and in the mean while a spoonful of the Juice of Pennyroyal sweetned with Sugarcane.

Sugar Candy, to be given twice or thrice in one day, and every third day to be gently purged with *Manna*; to which method, as both the most safe, and as approved by me upon other occasions, this Gentleman, of singular Sincerity, and excelling not only in the knowledge of his Profession, but also in his good Humor, did easily assent. And so that most Noble Infant next Heir after his Father, to the most Splendid and August, next to the Royal Family, of the Duke of *Beaufort*, recovered Health (as I did publickly foretell at that time) in ten days time, who, in the Opinion of the other most famous Physitian, seem'd not possible to be cured in the space of three Months.

Moreover (by the Blessing of God) I did restore to former Health, the same most Noble Infant, now five Years, old when sick of a continued Fever, and chiefly complaining of his Head and Belly by course, but next being tormented with most violent Gripes upon the Region of the *Ilium* (so that they were very like to the *Iliack*

Iliack-Passion) with a very weak Pulse. But we must observe, that when this was changed from a *most Acute and Continued*, into a *most safe Intermittent Fever*; whose Paroxysm had not its beginning with shivering and cold (as ordinarily) but with a dry Cough, which lasted the whole Fit; and which recurred every day after Dinner; I resolved to try the Virtue of the *Jesuites-Powder*. But all its advantage was fleeting, and merely palliative, until some drops of Blood, forced from his Nose, by the strength of the Fever, and violence of the Cough, did encourage me, who before was a little Refractory (because his natural strength was much exhausted by the Disease) to take, at least six Ounces of Blood at his Arm; and to purge him next day. After which, a strengthening Julep, designed for carrying off the Remains of his Cough, did so perfectly cure that weak Infant, that daily he became more healthy, until he arrived at its Perfection, which he enjoyeth at this time.

Observation

Observation II.

I Did treat after the same manner, the same Marquess his Daughter, Lady *Elizabeth*, a Girl eleven months old, being of a plump and thick Habit of Body, seized in the beginning of the Spring, but a very cold Season, with an Acute Fever, and a Cough almost Convulsive; and did reduce her to perfect Health in almost as short time (considering both seasons of the Year;) I only added about the end some Drops of *Sweet Elixir Proprietatis* to these Powders.

Observation III.

THE only Son of the Earl of *Pembroke* (a Noble-Man not only well endued with the ancient Splendor of his Ancestors, but with all excellent Gifts of mind) being seventeen Weeks old, was troubled, the beginning of *February*, with
Colick

Colick-Pains, Green Excrementt
Thrushes, perpetual Disquiet, and
staring of his Limbs. His Ears
 from which a certain Humour (after
 the manner of Infants) did flow
 great abundance, were intirely dry
 up. Yet, by the use of the men-
 oned Remedies, he recovered in the
 space of six days.

℞ of the compound Powder
 Crabs Claws ℥i. of Pearls prepar'd ℥
 of Sal-prunell. ℥i. M. and make
 Powder to be divided in eight equal
 parts. Let him have one immedi-
 ately in a spoonful of the following
 Julep, drinking another after all.

℞ of the Alexiterious Milk Wa-
 ter, ℥iv. of Pennyroyal Water, ℥
 of the compound Pœony Water, ℥
 of Pearled Sugar, ℥i. M. and make
 a Julep.

Two days after the Illustrious
 fant had taken the prescribed Peo-
 ders, for the allaying of his Pain
 with their designed Success; I gave
 him the following solutive Symp-
 upon the third, by which he was
 gently purged, and put from the
 suspicion of Danger.

℞ of the Syrup of Cichory with
Rhubarb, of purging Thorn ana ℥j.
of the best Rhubarb in Powder, gr.
xij. of the Tincture of Saffron gut. x. M.

Thereafter, I continued him the
next two days with the Powders, and
I purged him upon the third as before.
After all these, his Sickness did in-
tirely vanish, the lurid and pale Co-
lour of his Face became vivid and
prightly, and his Ears began to weep
as before.

Observation IV.

THe most Honourable Lady Ca-
therine, Daughter to the same
most Illustrious Earl, being three years
and a half in Age, was affected with
Lent Fever, which had most irre-
gular Paroxysms, but she particularly
complained of a grievous pain of her
head, and sometimes of her Belly. She
had an aversion to all sort of Food,
and was now and then so sleepy, that
the Family suspected her Disease
be the *Small Pox*; she was several
times.

times troubled with starting of her
Nerves, and sometime with a *dry*
Cough in her Sleep. I prescribed the
following Medicaments.

℞ of the Alexiterious Milk Water
℥vj. of the Plague Water ℥ss. of pre-
par'd Pearls ℥j. of the simple Powder
of Crab's Claws ℥ij. of refined Sugar
℥ss. M. and make a Julep. Of which
let her have three spoonfuls every
fourth hour, carefully shaking the
Glass before you pour it out.

℞ of Socotrine Aloes ℥i. of the root
of the lesser Centaury, of the Leaves
Savine dryed ana ℥ss. of Burgundian
pitch ℥i. of Venice Turpentine,
much as is sufficient. Make a Plaister
to be applyed upon her Navel.

The next day she continued
use of the Julep.

She had a Vesicatory applied under
neath the nap of her Neck.

There was a Clyster of six Ounces
of sugar'd and salted Milk injected
because she was constipated in
Belly.

℞ of the black Mineral, of sweetned Mercury, ana gr. vj. of Marmalade of Quinces ℥ij. Make a Bole to be given at Night.

The day after, she took this Purgative Syrup.

℞ of the Syrup of Purging Thorn ℥ij. of the Countess of Warwick's Powder, gr. vj. of the best Rhubarb in Powder, gr. xij. of the Tincture of Saffron, *gut.* xx. of Black Cherry Water ℥j. M.

Halfe Dram of the Crystall of Tartar was given her in a draught of Posset, to sharpen the Purgative.

That night she got four spoonfulls of the foregoing Julep at Bed-time.

The following Mixture was, upon the fourth and fifth day, in addition to the former Prescriptions, ordered to be licked up frequently.

℞ of Corallin ℥ij. of the dried leaves of Mint in Powder ℥i. of the simple Powder of Crab's Claws ℥i. of the Syrup of the Balsam of Tolu, of Althæa ana ℥i. of Orange Water ℥ss. M.

The

The Bole prescribed before was renewed upon the night preceding the sixth day; as also the purging Syrup the next morning; by which this very Noble Lady did vomit up, about noon, a Worm of a span long. Upon which, she was freed of all her Maladies.

Observation V.

THE much Honoured and only Daughter of the most Serene Prince, *James Duke of Ormond*, scarce yet a year old, was much troubled with a loathing and desire to Vomit; as also she was much fretted with green Excrements, and therefore with Gripes. I did easily remove these Colick-pains with a powder of Pearls given from gr. viij to ℥ss in a spoonful of Mint-water, thrice a day; and did gently purge off the morbid sick Matter with gr. vi. or ℥ss of Rhubarb in a little of the Syrup of Cichory with Rubarb; by which her green Excrements got a better Colour, and,

and, her Pains being removed, she enjoyed her days in great ease. and her *Loathing* and *Vomiting*, her Stomach being now corrected, did ease.

Observation VI.

THE only Daughter of that excellent Gentleman, Mr. *Foot* *inslow* Esquire, at *Kensington*, a Member of the present Parliament, and descended of a very rich and flourishing Family in the County of *Surrey*, being six months old, was troubled for some time, with a dangerous and extraordinary *Fever*, such as some call *Malignant*. Her *Excrements* were green, the Colour of her Face very pale, and much like that of Lead. *Crushes* did utterly hinder her Sucking; and some unusual Symptoms did very much threaten her Life. He did raise her Chin as high as possible, and did constantly cast back her head, that I, at my first seeing her, did suspect, there might be some *Im-*
posthume

posthume sticking to her Chaps, or some
 sudden stifling. I ordered fifteen
 Grains of the mentioned Powder
 to be given her at a time, according
 to the method before described. But
 as often as she took them, there did
 arise such a sensible *Ebullition*, as
 never observed before in any Infant.
 For all things turned so irregular
 and she seem'd to be in no less
 hazard, than may be expected by
 total Suffocation. But it did truly
 resemble that ordinary boiling that
 is by the mixing of an *Acid* and
Alkali in a Vessel. Moreover, the
 effervescency being over, she did
 run out in *sweat* on all parts. Yet
 neither was that Symptom at all
 diminished, or the rest, any way
 changed to better, after a great
 many Doses of the Powders, and the
 subsequent Purgings. Therefore,
 length I gave her at night, of *sweete-
 ned Mercury* and *flower of Brimstone*
 ana gr. iv in a little of the Syrup
 of *Clove-gilliflowers*; and did reiterate
 the same things next morning for
 correcting or averting that great con-
 ruptive

ruption of Humours. But she did vomit up a great deal of putrid, stinking Matter, variegated with Blood, and of as party Colours as a Rain-bow, not long after her taking the second Dose in the morning; after which she immediately became better, and those Powders, from which she was just now utterly averse, being given again did profit her much, no Ebullition arising from their use. Thereafter also was she able to weep strongly and cry out. About this time, began a Cough which was somewhat troublesome; but was soon defeated. Soon as these Trushes did disappear, as soon did the Fever vanish, her sick Colour was restored and this infant, deservedly thought desperate by all, did suddenly recover her former Strength.

Observation V I I.

THE only Son of Mr. Burton, Captain of an *East-India* Merchant-ship being but eight days old, was
G affected

affected with Gripes, Green Excrements
and continual Disquiet. Moreover
these Thrushes did to cover, as a white
Scurf, the inner parts of his Lips and
whole Mouth, that he was not able
to lay it nigh, at least not to suck
his Nurse her Breasts. For him, therefore
did I prescribe after this manner.

Rx of Pearls prepared $\mathfrak{z}\text{ij}$. of the
Simple Powder of Crabs-claws $\mathfrak{z}\text{j}$.
and make a Powder to be divided into
eight Doses. Let him have one three
a day, at a convenient season, in a
spoonful of the following Julep.

Rx of the alexiterious Milk Water
 $\mathfrak{z}\text{ij}$. of Penhiroyal water $\mathfrak{z}\text{j}$.
pearled sugar $\mathfrak{z}\text{ij}$. M.

On the first day, and thereafter
these Gripes were allayed, and calm
sleep procured.

Upon the third he took the following
Purging Syrup.

Rx of the Syrup of Cichory with
Rhubarb $\mathfrak{z}\text{ij}$. of the Powder of Rhubarb
barb gr. vi. of Rose-water gr. $\mathfrak{z}\text{ij}$.
xxx. M.

That same evening he got one of
the foregoing Powders.

Upon

Upon the fourth day he begun to suck, the *Thrushes* then disappearing, and his *Excrements* were not at all green. Notwithstanding he continued, all that, and the fifth day, in the use of the *Powders*.

Upon the sixth, he took the *Purging Syrup* with $\mathfrak{z}$ ss. of the best *Rhubarb in Powder*, in place of the vi. grains he had taken before. After all which, he perfectly recovered.

Observation VIII.

THE Daughter of Mr. *George Sclater* (a Divine, well instructed in all kind of Learning, Rector of the Parish of *Hayes* near *Bromely*) being about ten months old, was affected with a most violent *Flux*, at the time of *Breeding Teeth*, that she was almost dead, and given over by all as desperate, because of her frequent *Stools* (which were green, and no fewer than 40 or 50 in one day, as her Parents inform'd me.) I gave her a scruple of the mentioned

Powders, at least, every fourth hour, but oftener in the beginning, even until the *Flux* did much remit, till the sharpness of the Bile was allayed, sleep also procured, and the former strength somewhat renewed. Upon the third day, I did drive out of the Body the Humours, so prepared with *Rhubarb*; which can never be sufficiently commended, which does not only confirm the strength of the Weak Parts, but also doth remove and most pleasantly purge off Impurities. I continued in giving these Powders thrice every day until the third, upon which I did renew the same Purge. After these, she was perfectly cured.

Moreover, I shall add here: That as I do easily adjudge the Victory to *Rhubarb*, as a *Purgative*, of all the most agreeing with *Infants* affected with *Fevers* or any other *Sickness*; so neither can there be any thing found that is naturally more unsafe and dangerous than *Aloes*, which is so much commended, and which is most hurtful (however *Sacred* its *Principle*

paration may be named) to such as are Feverish, both because of its intense *Heat*, and *fretting faculty*, which is most opposite to that tender Constitution. And I, if it were my Humour, could confirm the truth of this assertion, by a very incredible Account of a most *Noble Infant* scarce yet 4 years old, being affected with a *Lent-fever*, who, in the space of two days, was brought to that pass, especially by the use of *Hiera Picra* in a hot Vehicle as is customary, that the Taches of his Intestines suddenly made by it, which *Anatomical Inspection* did make known, did far exceed all belief. But this I do pass, remembering that we should speak nothing but well and honourably of those that are dead, so also concerning those that are alive.

Observation IX.

THE Daughter of a certain Gentleman, but four years old, was affected in the Summer of the Year 1687. with the most violent Fever

that ever I did see upon any of that
 Age; her habit of Body was ver-
 lean, her drougt insatiable, the Heat
 of her skin was sharper than any co-
 these years, so that any that touche-
 it, were scarce able to endure this
 inward burning for any time. In this
 mean while the Parotid Glands did
 torment her, and were a little swelled
 her cheeks, for the most part, were
 very red; and she did decay in con-
 tinual anguish and disquiet. It was
 evening when I did first see her in
 this condition. I did instantly order
 for her ʒss. of our Powders made a
 little Expulsoy, to be renewed, a
 little after, in a spoonful of Penniroy-
 al Water. The same things were re-
 iterated next Morning, but about two
 hours after her Mornings Draught,
 a good deal of blood did run from
 her Nose, and her whole Fore-head
 was livid and somewhat swoln with
 much Redness here and there, as she
 had been newly banged with cudgels:
 A round crimson colour'd spot off
 two inches breadth did appear under
 her left Temple; At which being No-
 thing;

thing discouraged, but thinking it a very good Omen, I did order her the use of those Powders that blunt Acidity for that day, only, they were made less expulsoy, but upon the next, *i. e.* upon the third, after I was called, I did not doubt to give her the Purging Powder, well sharpned with the Crystal of *Tartar*, altho her Fever, Heat, and Drought were nothing abated; by these she had five or six Stools. Lastly, this very day did her Fever vanish, by the evening she had no drought, and the Heat of her Skin was as temperate to the touch, as it is in her best health, so that the small Infant, aboute even, did cry out, *How well am I now?*

Observation X.

THE Daughter of Mr. Golton, a well born Gentleman, being a year old, of a *Plump* and very Fat Constitution, became Feverish in the month of *November* by *Breeding-Teeth*;

her drought was Insatiable, her Face very pale, only there was somewhat of a Green mixed with the wanness so often as, being to suck, she put her Mouth to the Breasts, as often as she was forced to give over, because of a violent Cough which did begin at that time; by which Symptom being advertised, I did suspect that her *Uvula* was swelled and inflam'd. Moreover, her mouth was very much hurt with *Thrushes*, that she could never be induced to open it unless she was some time forced by stopping her nostrils, to breathe and by that means to receive Medicaments. Her Excrements were very green, and of a Sour smell, with continual tumbling, which did indicate that she was troubled with *Colick-pains*. Her breathing, when asleep, did strike the ears of the bystanders. Moreover she could not weep till, after a week, by the constant use of these Medicaments the sickness was much quelled, and the ordinary crying of Infants did return. All the symptoms did evidently remit after the

the operation of the *Second Purgative*; and by the third, the brisk Colour with a most pure white did by degrees return to her Face, her Eyes became lively, and at last she did enjoy most perfect health.

I shall add also an extraordinary example of a *Chronick Disease*, which is not much beside the purpose, neither altogether unuseful.

Observation XI.

Isaac Pope being thirteen years of age, was so pined away with a Consumption, by worms (as it proved) that he was much liker a Skeleton than a live Boy: His Face was like that of one raised from the Grave, his Eyes hollow; his Nose sharp, and his bones only covered with skin: By this Disease he became senseless, and altogether void of reason; and scarcely could his rattling joynts carry him from one end of the room to another with the swiftness of a Snail: All his Excrements, whether by Urine, or by

Stool, fell involuntarily in the day
time into his Breeches, and in the
Night upon the bed; I gave him first
25 grains to 3ss. of my black Mineral,
which I much use, Morning and
Evening, purging him gently every
fourth day. By which he voided
a great many worms, and a little after
became very plump.

But I shall not grudge to describe
the preparation of my Black Mineral
because not to be found in any Au-
thor, that I know, and may be
very good Use.

℞ of Quicksilver four parts,
Flower of Brimstone three; stir
well in a glass mortar, until all the
globules of the Mercury do utterly
vanish and the mass be reduced
a grey Colour, which turneth very
black after that 'tis kept some
time.

The ordinary way of making the
black Mineral is by mixing equal
parts of Mercury and flower of Brim-
stone, and Burning, until a kind of
useless Earth doth remain, after the
Combustion, in form of a Powder
which

which is but half the quantity of the Mass: whose genuine and natural vertue is lost by the fire, or if not, it cannot surely enough be determin'd what its strength is which may be said of a great many other Preparations made by Fire.

I prefer this way of preparing it, to all other, both because tho given in however so great a quantity, and however often, it never exciteth *Salivation*, which cannot be convenient for that tender Age, and is most formible to by-standers; as also, because it is made up after a *simple and natural way*, without any help from too too curious *Art*, which putteth no value upon any Medicaments, but such as have passed the Fire, that thereby they may become purer and more freed from their, I know not what, natural filth; when tho they are very often changed from their best state and their excellent natural Vertues, into such as are worse, more unsafe, and intirely new. But also the undaunted *Volatility of Mercury* which hath cost Chymists so much

much labour in *Fixing* it, is very easily subdued by the small work of the *Pistil* and *Mortar*.

I might adduce a great many more Examples, if I could discreetly incroach upon the patience of my Reader, by dwelling longer upon the same thing.

I might renew and deservedly approve of that good and old custom of easily preventing a great many Diseases of Infants and Children, by safe and known Remedies, which do much resist the corrupting of Humours, and were given every month. Seeing, *viz.* the most tender nature of Infants most subject to all impressions, as well external as internal, and seeing Crudities and Indigestion do so abound with these tender ones, a prudent Physician should correct and amend these Dispositions and Diseases, which cannot be altogether removed in so delicate and weak a Constitution.

I could, at length, debate, whether it were *safer* that new-born Infants should rashly be resigned, as is customary, to the care of a *Hired Nurse*, than

that Parents, viz. at the last may hear of the great hazard of their Infants, when they have already ended their innocent life through the carelessness and fault of Nurses, or whether they should rather be weaned when first born; whether mothers themselves should become nurses; or lastly, whether the nurse, when necessity doth require one, should be maintained at the Mother's Houses, and by their care be diligently kept up from the Embraces of her Husband.

But it is now high time to remove an Objection as well of some Physicians, which are happy Practitioners, as of all those who have most diligently enquired into the nature of *simples* for the use of *Physick*: they *sc.* will blame my *Method* as too simple, and not equipped with things commonly known, and much wanting that *Variety* of *Prescriptions* which is so very requisite for a learned Physician, and which often overaboundeth amongst Authors, yea, they will accuse me, that I am either altogether ignorant of, or have unjustly slighted, the *Chymical Preparations*

ventions long ago commended in the Works of almost all the Authors.

Let them, then, remember, that: *Physician* is the *Servant of Nature*, and that *Nature* cureth Diseases. Let them complain, that they came naked into the World, that *Nature* is content with a few things, and that *Art* should imitate, or rather adumbrate *Nature* as much as is possible. They may know, that I think him, who prescribeth too long or too many Forms Remedies, to offend through Ignorance or deceit.

And as to *Chymistry*, I do more endeavour to understand it, than to lay any great stress upon its Promises. I shall not mention how long I lodged with the most Famous *Lemery*, to the great Honour and Ornament of the *Spagyrick Art*, and of this Age (as *Chymistry*) in his House at *Paris*. And if *Physick* had not very much abounded with genuine and natural Ways of curing, when *Chymistry* not long ago pretended to the chief place in *Medicine*, I doubt it would have afterwards swoln so much with *Chymical Preparations*.

For what end should *Physicians* have betaken themselves unto unknown, unsure, and most dangerous things, even those Sanctuaries of Ignorance; unless that some notable ~~jealousie~~ had arisen from things so well known, and tried by many? Surely they had not snatch'd so greedily at the Shadow, forsaking the substance, if no Charm had appeared in the trembling Light. But I would not rashly despise *Chymistry* as confined within the bounds of *Pharmacy*, neither would I have any to extol it un-awares as diffused beyond the limits of *Physick*.

It is very observable in how great Poverty, these great favourers of *Chymical Preparations*, and the zealous Enemies of the old way of curing (that I may say nothing of the comon *Chymists* & *Quacks*, who adulterate every thing, and make great promises without performance) if you except very few, do give, though they do not doubt to promise Golden Mountains (as people speak) to the too credulous, ignorant, and covetous. But though it be true, that Riches and Power are not given, to

to wise and knowing Men, and such
 are best skilled in every Trade, con-
 form to their Demerit; yet I think
 it most probable, that *Their* great Ef-
 verty hath most its rise from the hurt
 and great Bane of their *Medicamen-*
 or famous secrets: & that a great ma-
 ny of them (because of their destruc-
 tive *partaking* or *incorporating* with
Fire) are most unuseful for, if not
 together contrary to the Health
 Mankind. For if for the most part, they
 were of any use for Men, or if their
 strength were answerable to their pro-
 mises, altho they could not enrich
 this, or the other *Chymist*; yet,
 most sedulous Artificers (even as
 ordinary gain doth always attend
 great part of all other careful Trade-
 men, who make profession of any thing
 for public use) could not be so frequen-
 ly frustrated, in their hopes of getting
 Riches. If I intended to *advise my de-*
arest Son, what method he should take
 to scrape together a great abundance
 or, at least, a sufficient Portion of Mo-
 ney; by my perswasion he should be
 great integrity of life, that he should

circumveen no man deceitfully, neither that he should take pains in coyn-
ing Lyes, whatever kind of Life,
or whatsoever sort of Trade he did
designedly lead, for encreasing Riches.
And I would no less inculcate to him,
that this is, of all, the best way to live
in miserable Poverty (however the co-
zenings of some Crafty Knaves, who
have long practised falshood, may suc-
ceed for some time) not to perfidiously
over-reach others, to tell lies for truth,
and at any rate to act the part of a
wicked Impostor, or unthrifty Man.

But that we may return to *Chymi-
cal Preparations*: I cannot but esteem
the *Works of Nature* far more excel-
lent than those of *Art*; yea, with
Galen, that they are greater, and do
exceed all Commendation; however,
they be despised by some, and *Nature*
her self accused as unactive by *Epi-
curus*. Wherefore, our most divine
Old Man doth justly say, Ἡ ἰατρικὴ
μαλιστα καὶ φύσιν ἔσιν. *That Medicine*
*is best practised according to the pre-
script of Nature.*

But that we may come to a close, I
would not have such, as do so much
esteem

esteem and are delighted with the *Art* we speak of, still ignorant, that scarce any *Chymical Preparations* (as its true *Sons*, if there be any such, have often complained to my self) are to be sold at this time, which are not fictitious and adulterated upon the base account of Gain.

Lastly, some may object, that *Bleeding* can never be convenient for that tender Age, much less to become necessary upon some occasions.

I reply, that *Bleeding*, even of the Youngest Infants, was appointed and old by the command of the Supreme God, the Greatest Physician, in the Decree of the *Circumcision*; that great *Hemorrhagies* did often attend it, and which were very difficultly stopp'd unless by exquisite Remedies prepar'd for that end; and yet the Jewish Writers, which is very observable did boldly aver, That not one Infant of a thousand was a-missing or died untimely, only because that *Bleeding* was let this way.

May the greatest and best God, from whom, as from an inexhaustible Foun-

rain, every good and propitious thing doth
 flow, upon whose favour the happy Suc-
 cess of the Art of Physick, more than any
 other, doth continually depend, counte-
 nance with his wonted Goodness, these
 things which I have written with a sin-
 cere Mind, that they may tend to the
 Publick, which is always to be prefer'd
 to any private advantage.

FINIS.

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in every good and virtuous thing
born, upon whose happy day
of the Art of Physick more than any
other, this continually depends, con-
stant with his most Excellent Majesty
things which I have written within
these few lines, that they may tend to the
publick, which is always to be preferred
to any private advantage.

FINIS

