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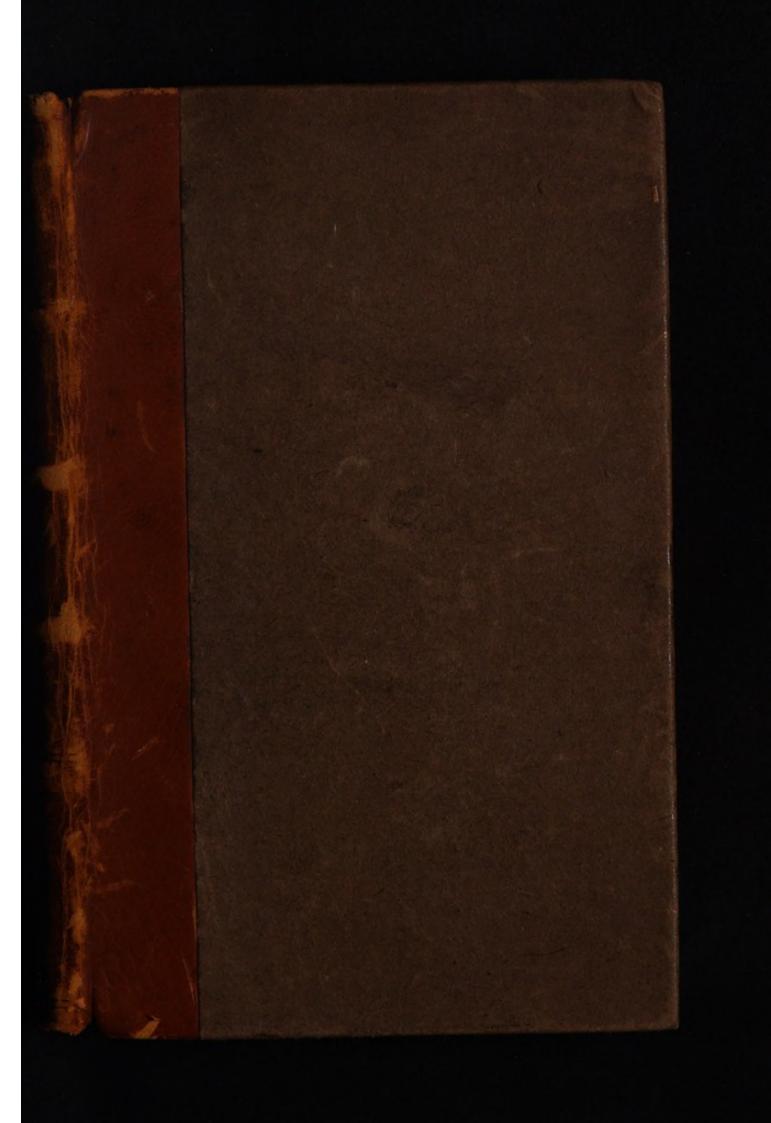
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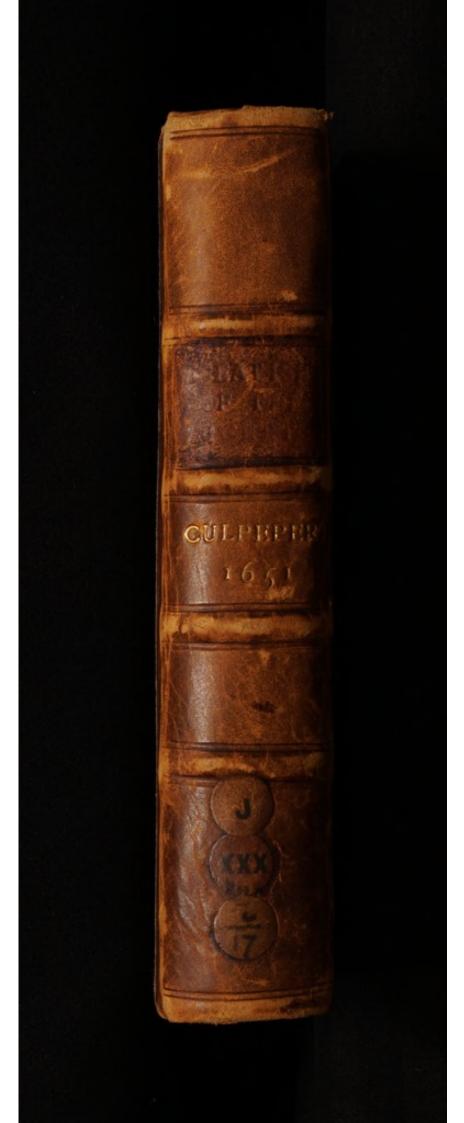
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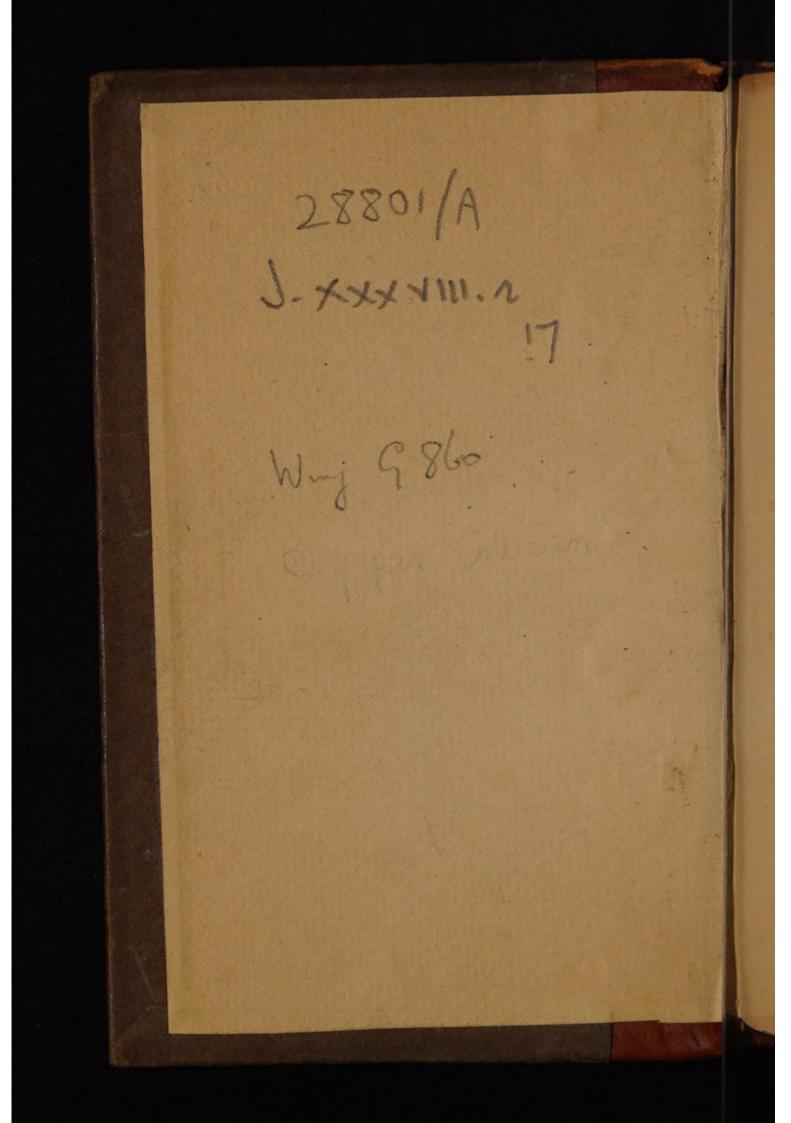


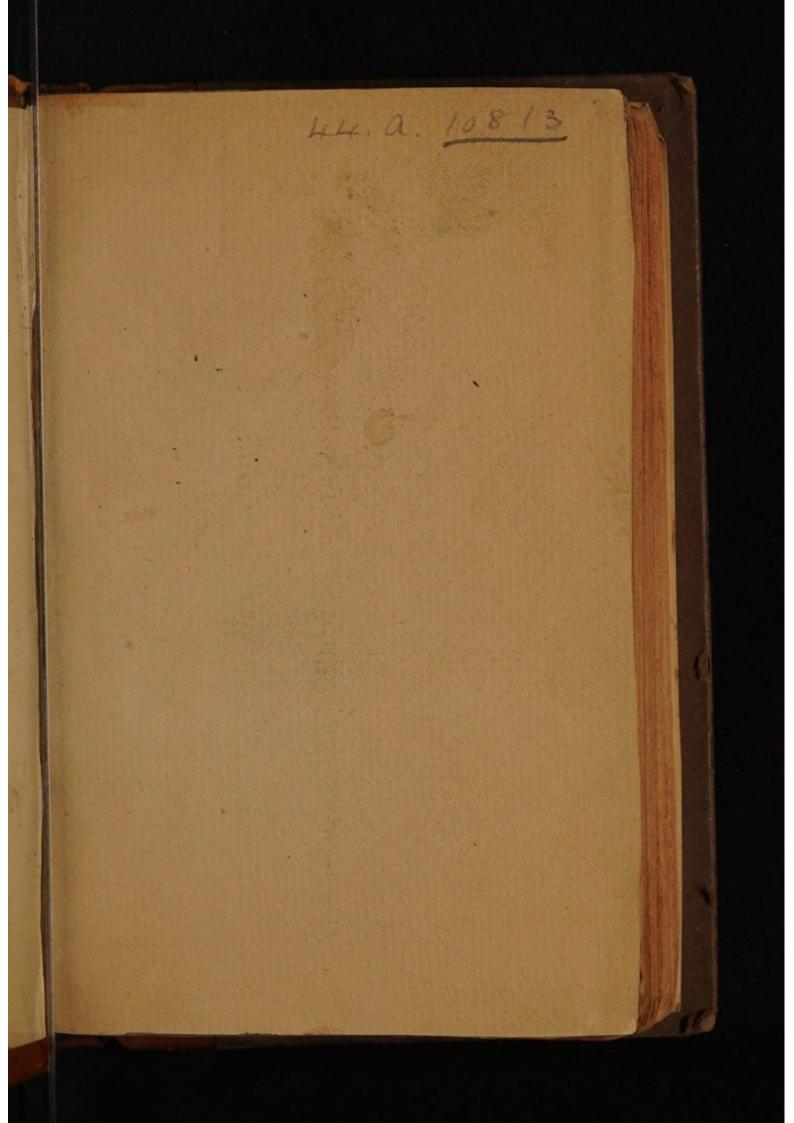


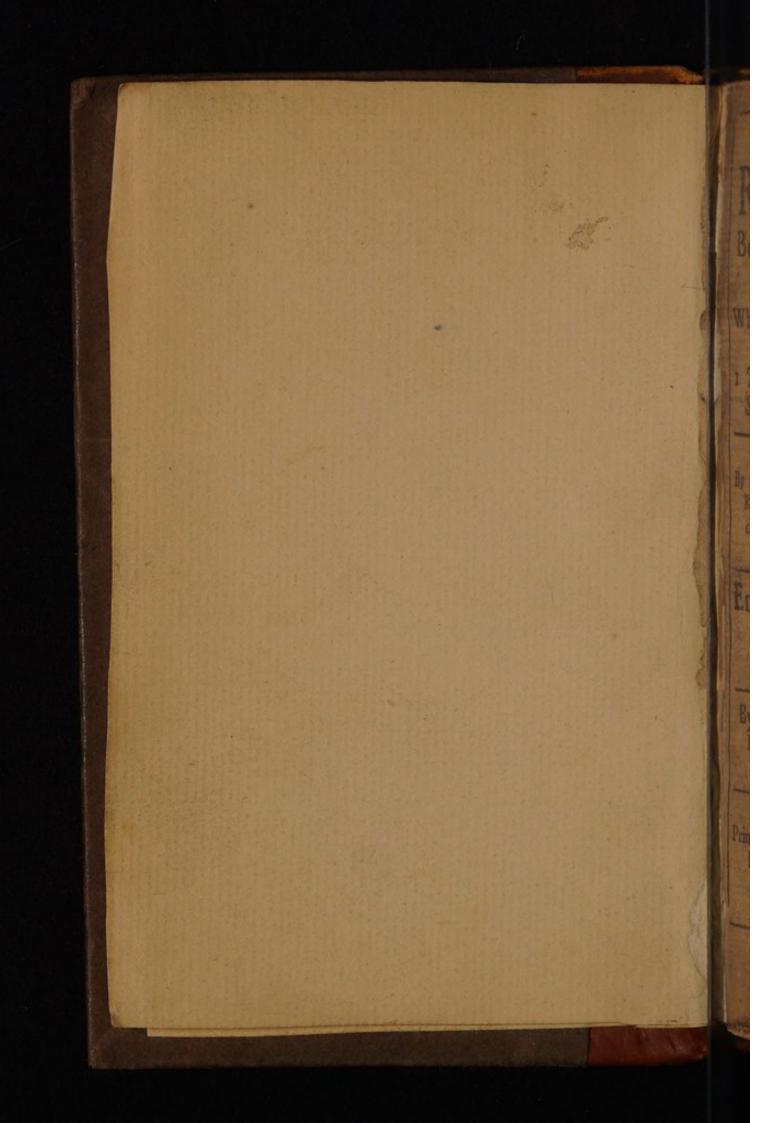


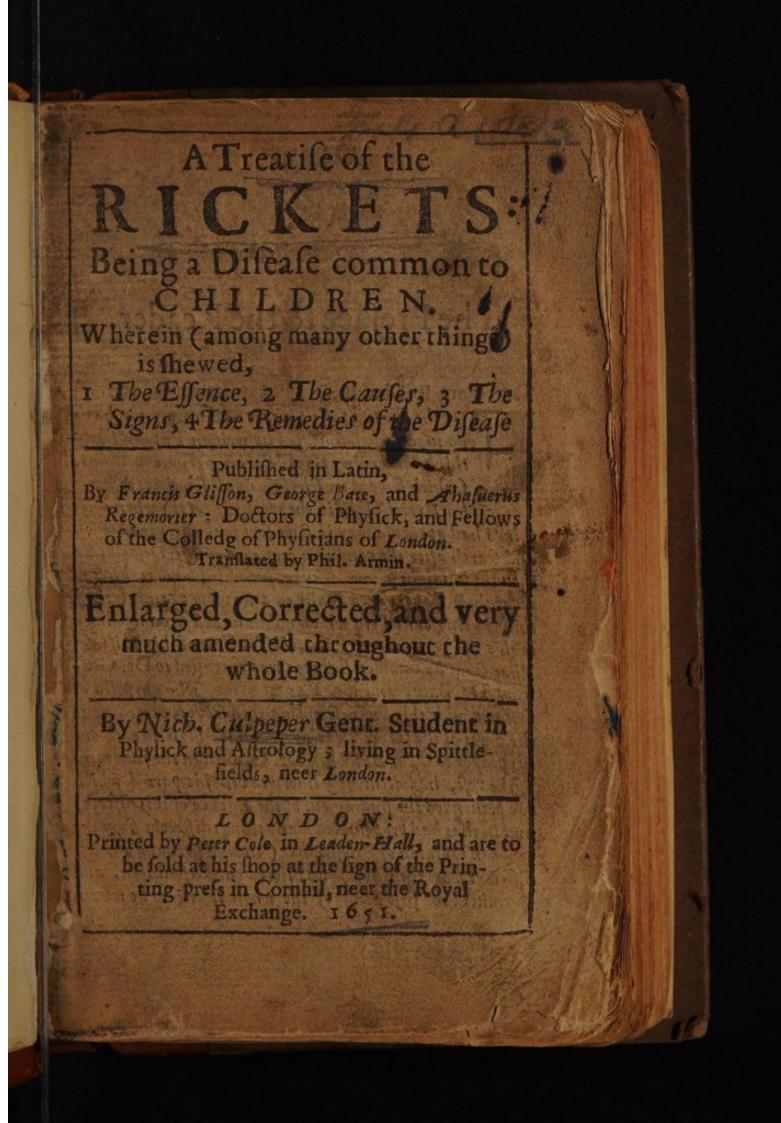












The Preface to the Reader.

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Courteous Reader.

Or the space of five years and more, we have mutually communicated by written Papers something concerning this Affect in private meetings, (which some of us Physitians use somtimes to have for Exercife fake in the works of Art) when these things had opened a way in fome fort to the deeper enquiry and fearch after the condition and cure of this Difeafe; we thought it might prove a very successful undertaking to recal those Papers once again to a Review; and (those things being culled out which might be best accommodated to this use) to prepare a perfect Fractate of this Disease. That Care by common suffrage was entrusted to Dr. Gliffon, Dr. Bate, and Dr. Regemorter, who purpofed at first to divide this business among themselves, according to she parts of the future Tractate, and to affign to each one But when Dr. Gliffon in the judgment his proper task. of the reft, had accurately interweaved his part (which comprehended the finding out of the Essence of this difease) and in that had propounded many things different from the common Opinion of Physicians (though perhaps the less different from the truth) we altered our Resolutions, and committed the first Stuff of the whole Work to be woven by

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The Preface to the Reader.

by him alone, least at length the parts should arife defort med, missapen, and Heterogeneous to themsfelves. He accepted the offer, but with this condition, that whilf he was employed in beautifying and adorning this part, the other two fould often hold confultation with him, and confer unto the Woof their Covenants of free Commerce by their own Observations concerning this Affect, and that those things which should be delineated and shaped by his labor and fudy, sould prefently undergo the examination and judgment of the reft, as if they had been fashioned by their hands. And fo at length we have brought this Work ((uch as it is) to perfection, and have offered it to the Publick view, being by no means moved thereunto by an isch of writing (which is the Epidemical ill cuftom of this age) but by this Confideration onlys That becaufe we are not born for our felves, we might make these (fuch as they are) common, which in fome measure may advance the health of Infancy and tender age (in which for the present a great part of Mankind, but for the future all Mankind is comprehended) and likewife propagate an Encrease unto Learning : with this hope also, That by this Example we may invite the Wits of other most Learned men to make inquisition into the Essences of Diseases and their Caufes, and to examine these our Labors that Posterity may enjoy them yet more perfect. But the obfoure Esfence of this Difease, and this our daring to tread in unbeaten paths (were we filent) might obtain a pardon, and modestly chalenge a candid Interpretation for all defects, lapfes, and errors in these our Endeavors. Finally, expect no flashes of Rhethorick and Courtly-language ;

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Nobis non licet esse tam dicertis, Musas qui colimus severiores.

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The Preface to the Reader.

And indeed the condition of the matter forbids all fuch plinting; in such a manner,

Ornari res ipfa negat, contenta doceri.

Farewel (kind Reader) and peruse them as we dedicate them, that is, with an ingenious and candid mind.

> F. G. G. B. A. R.

The Names of those Doctors who by written Papers contributed their Observations to our first Exercise upon this Affect.

Dr. Francis Gliffon. Dr. T. Sheafe. Dr. G. Bate. Dr. A. Regemorter. Dr. R. Wright, dead. Dr. N. Paget. Dr. J. Goddard. Dr. E. Trench. Fellows of the Colledg of Phylitians as London.

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Books Printed by Peter Cole and Edward Cole, Printers and Book-fellers of London at the Exchange.

Several Physick Books of Nich. Culpeper, Physitian and Astrologer, and Abdiah Cole Doctor of Phyfick commonly called, The Phylitian's Library, containing all the Works in English of Riverius, Sennertus, Platerus, Riolanus, Bartholinus. Viz.

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The fecond Section. Of the with an excellent Treatife of ad Reno Symptoms in the Terms and the Weapon Salve. 5. Of the River other Fluxes of the Womb. Fractures.6. Of Luxations Candoor The third Section. Of the Symptoms that befal al Virgins and Women in their Wombs, after they are ripe The fourth Section. of Age. Of the Symptoms which are The fifth in Conception. Section. Of the Government of Women with Child, and preternatural Distempers in Women with Child. The fixth Section. Of Symptoms that happen in Childbearing The seventh Section. Of the Government of Women in Child-bed, and of the Difeales that come after Travel

The first Section. Of Difeases of the Breaks. The fecond Section. Of the Symptoms of the Breafts.

To which is added a Traclate of the Cure of Infants. Part I. Of the Diet and Government of Infants. The fecond Section. Of Difeafes and Symptoms in Children. 6. Sennertus fitch Book of Practical Phylick, Or the Art of Chyrurgery in fix the world. Parts. 1. Of Tumors. 2. Of Ulcers 3. Of the Skin, Hair the Practice of Phylick, bei

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A Treatife of the RICKETS.

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CHAP. I.

The Antiquity and first Origine of this Disease, the Name ofit, and the Derivation of the Name.



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A Treatu

A B B B B HAT lome new Difeafes altogether unknown to the Ancients, have, for fome Ages lately paft invaded divers parts of Europe, is a known & undoubted truth (whether we attribute it to the viciffitude of things, or impute

it to the Sins and Impieties of men, and their corrupt manners) as the French-pox, the Scurvy, the * Plica, and the like; in

which number this very affect we are now about to handle may be juftly Registred.For if we examinal the dileafes of Infants & children defcribed either by the Ancients or Modern Writers in their Books of the D'seales of Infants, we shall meet with none which with a sufficient

* A most leath some and borrible Disease in the Hair, unbeard of in former times, bred by modern luxury and excefs: It feizeth feeially upon Women; and by reason of a viscous venimous humour, glues together (as it mere) the bair

bair of the bead with a prodigious ugly folding & entanglement : fomtimes taking the form of a great Snake, Sometimes of many little ferpents: full of nastines, vermine, and noy fome [mel : And that which is most to be admired, and never eye faw before, pricked with a needlestkey yeeld bloody drops. And at the first fpreading of this dreadfulDisease in Poland, all that cut off this horrible and Inakie bair, loft their eyes, or the humor falling down upon other parts of the body, toriured them extreamly. It began fir ft, not many years ago, in Poland : It is now entered into many parts of Germany. H. Saxo. Profeffor of Phyfick in Padua.

(2) exactness doth delineate the condition and Idea of this evil. For although it may feem to hold a correspondence, or to have fome affinity with a chronical Feaver, a Confumption, the exleanneffe tennation or of Infants, and + ADij- the + Hydroease in the cephalos; yet bead, co- to speak truth it is an affect ming fro Rhemm, evidently dif-

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trom terent them in the Species. For you may observe many to be vehemently afficted with this Malady without any Feaverilhdistemper, or any caule of fuch fulpition: in like maner although a Confumption doth frequétly supervene upon this Dileale before the diffolution of the Patient, yet is it feldome feen to accompany the first invafion thereof, as for the meagernels or leannels, although some parts are perpetually observed in this

this affect to be made lean, yet this doth not happen in all alike, as in a right and true leannefs, but you may perceave the parts about the head and face to be in a thriving condition as to outward appearance, and well complexioned, even to the laft day of life. Finally, The Hydrocephalus is very frequently complicated with this affect, yet we have diflected fome whole Brain hath been fufficiently firme, and not over-moiftned with this fuperfluous humour. Some have conjectured that this Difease is an imp or fruit of the French-pox or Scurvy, descending from the viciated Bodies of the Parents upon the Children: For we deny not but the Parents, being infected with the Scurvy or the venerous Pox, may propagate and bring forth an Iffue, not only affected with that Pox & Scurvy, but likewife infected with this evil, and this even hath alfo faln under Observation : yet for the most part this Dilease in the propriety of its Essence, hath neither affinity nor familiarity with those affects, and belides it requireth a different progrefs of cure; we have sometimes likewise observed a strumatical and fwelling Malady to be complicated with this ; but we have also many times beheld this to be well diftinguished from that, and that from this.

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But why do we dwel fo long upon this inquificion ? feing that he, who wil accurately contemplate the figns of this affect, as in their due places they that be propounded, may most easily perfwade himfelf, That this is abfolutly a new Difease, and never defcribed by any of the Ancient or Modern Writers in their practical Books which are extant at this day, of the Difeases of Infants.

But this Difease became first known (as neer as

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(4) we could gather from the Relation of others after a fedulous enquiry, about thirty years fince, in the Counties of Dorfet and Somerfet, lying in the weftern part of England; fince which time the oblervation of it hath been derived unto other places, as London, Oxford, Cambridge, and almost all the Southern and Western parts of the Kingdom: in the Nothern Counties this affect is very rarely seen, and scarcely yet made known among the Vulgar fort of people.

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The moft receaved and ordinary Name of this Difeafe is, The RICKETS: But who baptiz'd it, and upon what occasion, or for what reason, or whether by chance or advice it was so named, is very uncertain.

However it obtained that Name, yet in fo great a variety of places through which it hath ranged, it hath not to this day been known by any other Denomination.

But it is an accident well worth our admiration, That this Difeale being new, and not long ago namelefs, at leaft not known by this Name, neither fpreading fo much in remote as in adjacent places, yet no man hitherto could be found out, who knew, or could thew, either the first Author of the Name, or the Patient to whom the appellation of the Difease was first accommodated, or the peculier place where it was don, or the maner how it cam to be disperied among the common people: for the inhabirants having gotten a Name for the Difeafe, receave it with acquiescence as a thing done with diligence and deliberation, and are not at all further folicitous either about the Name, or the Author of the Name. But

But because they which are expert in the Greek & Latin tongues, may perad euture expect a Name from us, wherof lome kind or Reafon masbeg: en, we have made fit together divers Names of his. Difeafe, yet we conceave it fomewhar unneceffary to make a particular rehearfal of them in this place: Neverthelefs it may perhaps be proper and profitable to commemorate the Rules which we propounded to our felves in the defignation of the Name: The First therefore was, That the Name fhould comprehend fome notable condition of the Difease. The Second was, That it should be fufficiently diftinct from the Names of other Dileafes and Symptoms The Third was, That it flould be fufficiently familiar, eafie of pronounciation, accomodated to the Memory, of no undecent length, and not fludioufly, and laborioufly compounded.

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Whileft we bend our employments to the fatiffaction of these Rules, One of us by chance fell upon a Name which was complacenceous to hunfelt, and afterwards pleafing to the reft ; now this was vor paxins or indeed paxims (for that termination is not altogether abhorrent from the common Gender) the Spinal Difease, also vis This payeas, the dilease of the Spine of the Lack : For the Spine of the Back, is the first and principal among the parts affected in this evil. Then no other Malady or Symptom did by the prerogative of time vindicate this appellation from it; belides the ne is familiar and easie And finally, The th Name Rickets, receased with fo great acous)t the people, doth by this Name leem to be even 200 yea, justified from Barbanian, For withour any C 3 wracking

wracking or convultion of the word, the name Rickets may be readily deduced from the Greek word Rachitis, or Rachites; provided, That we will but allow that confideration of change, which in vulgar pronounciation ufually happeneth to words tranfplanted from one Language to another.

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Object. You will say, That they which imposed first the English name Rickets, were peradventure altogether unskilful in, and ignorant of the Greek tongue, or that they never thought of the Greek word Rachites, at least understood not that the Spine of the Back was the principal among those parts which were first affected in this Disease?

Answer. We Answer, It concerns not us whether they were ignorant of, or thought not upon the Greek word, or whether they did not understand the principal part that was first affected; yet are thef things freely afferted. For we knew many at that time when the Disease did first spring up, and the Name was imposed, indeed learned men and skilful in the Greek tongue, to have their Refidence in those places, to whom it was not perhaps any difficulty to observe that conspicuous debility of the Spine in this affect, and thereupon they might affign this Name unto it ; although tis very possible, yea probable. That the common people by the error of pronounciation might formewhat pervert the Name to given, and expresse it, as to this day they retain it by the word Rickets. But whether it were, or were not fo, we are not at al folicitous. If the matter were fo, the imposed Name will (as is manifest) be altogether congruous, and perhaps also at the last will most fitly correspond with it. For suppose you thould

should fall upon some Name, received not so much by choice as chance, yet fo fit, that a more comodious Name could scarce be devised by councel and deliberation, nor one more confonant to Reason; in fuch a Cafe, What would you do ? Would you extirpate and banish the receaved word, to introduce one that was new and nothing better ? This practice would usurp upon the priviledge of Conversation, and be injurous to the custome of Speaking : Words contract a value by their ule, and ought not to be denizen'd with rafhnefs, or innovated by timerity: Or would you not rather confirm the Name receaved, yet as a new one, and from that time to be deduced from a new Origine : for this would be at the least like a chosen Science inoculated upon a new ftock, which by reason of the affinity with the Root, would without any difficulty receave strength and nourishment : Or if this please you not, suppose if you please, That we now newly deviled the English name of this Disease; and deduce it from the Greek word Rachites : the English word refulting from hence would be the Rachites: and how little is the difference between that and the ordinary word Rickets? Certainly fo little, That the vulgar pronounciation is not wont to be greatly folicitous about lo smal a difference : But we triffe too much in flaying fo long upon these trifles. Let the Greek Name therfore of the Difeale be nofos Rachits, or Rachites (if the word may be allowed to be of the common Gender) or tes Racheos; in Latin Morbus Spinalis, vel Spine Dorsi : and by coyning a Latin Substantive out of the greek Adjective Raehitu--idis let the ordinary English name Rickets be retained, or in flead of it, to gratifie more curious ears, you may fub- 1

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(8) fubstitute the Rashites. And thus much, if not too much, of the Name.

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CHAP. II.

Anotomical Observations collected from the Difsection and Inspection of Bodies subdued and killed by this Difease.

Efore we attempt an enquiry into the Nature and Causes of this Difease, we hold it convenient to premise some few certain and undoubted things, as being obvious to the Senfes, which both demonstrate the real existence of this Difease, and may allo be cast for a foundation, whereon to build the Superstructure of our judgment & opinion concerning this new Difease. For we would not have any man to imagine that we here treat of some Fictitious & Imaginary Evil, much less to expect that our Opinion thould be creduloufly embraced without examination. But this we rather aim at, That the matter of our Difcourfero all poffibility may be known and preconceived in the very entrance, that we may confirm those things which we shall propose, by those things chatare obvious to the Senfes, as occasion shall require; and that the Reader being inftructed in thefe, may become a competent judge of our Reafons, and with the more facility be able to interpole his judgment concerning each of them, We attest therfore that that many of us have been prefent at feveral Diffetions of Bodies which have been feparated by this Difeafe, and that we will in this Chapter briefly and faithfully declare those things which we have hitherto Observed by long experience and frequenc Diffections, namely, Those things which we have feen with our eyes, and have handled with our hands.

In the mean time Two things are here to be premonished : The former is, That the Reader carry in his memory, That the dead Bodies which we opened were most vehemently afflicted with this difeafe whileft they were animated, for they are fuppoled for the most part to have yeelded to the very magnitude of the Difeale, and therefore he must not expect that magnitude of the Affect or Symptoms which we here describe, in other Bodies yet living or newly befieged. For every Dileafe is moved to a Confiftence, and then also Nature being oppreffed and unable to maintain the conflict groweth worfe and worfe. The latter is that the Reader take notice, That almost all Diseases in processe of time, do unite unto themselves other affects of a different kind, and therefore that chronical Difeafes are for the most part complicated before death: Let him not therfore imagine that every preternatural thing that is found in dead Bodies, though deftroyed by this affect, must of necessity belong to this evil; for perhaps it may rather have reference to fome other Difeale supervenient upon this before death, then to this very Malady: And the truth is, Anatomifts through inadvertency, and want of due regard to this Caution, have fouly ered in their Observations, whileft they afcribe those things which concern another

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nother Difease, to another wherewith it was complicated before the diffolution. The best prevention therefore or rectification of this error is, Not to make a ralh judgment from the inspection of one or two bodies, but first by a reiterated and fedulous experiment, to be able to diffinguish what things perpetually occur, what for the moft part, what frequently, and what but feldome, in the diffected bodies that have perished of the same Difease : for you must know, That whatfoever is not perpetually confpicuous in the opened Bodies diffolved by the fame Disease, cannot appertain to the intimate and chief Essence of it : for neither the Disease it felf can have an existence being separated from its Effence, nor the Effence being separated from the Disease. But enough of these things; let us now proceed to the Observations themselves.

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These our Anatomical Observations are distinguished into those which do extrinsecally occur, the Body being not yet opened, and those which present themselves only upon the Dissection of the Body.

I. These of the former kind are they which are outwardly wisible upon the first appearance of the naked dead Body.

I An irregularity, or difproportion of the parts ; namely, The Head bigger then ordinary, and the Face fat and in good conftitution in respect of the other parts. And this indeed hath appeared in al those whom hitherto we have beheld to perish by this affect,

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fect, one only excepted, who together with this Difeafe had fuppurated Lungs, and was pined and disfugured with the Pryfick. Yet he alfo throughout the whole progreffe of the Difeafe, was full faced, and had his head fomewhat big; but for abour fourteen dayes before he Deceafed, on a fudden all the flefhy parts about his head confumed away, and his face was like the picture of *Hippocrates*, not without the juft wonder of all those who beheld fo fudden a change.

2 The external members, and the muscles of the whole Body were fiender and extenuated, as if they had been wasted with an Atrophy, or a Confumption. This (for so much as we know) is perpetually observed in those that die of this Disease.

3 The whole Skin, both the true, and alfo the flethy and fattifh Membrane, appeareth lank and hanging, and loofe like a Glove, fo that you would think it would contain a far greater quantity of fleth.

4 About the joynts, especially in the wrefts and ankles certain fwellings are conspicuous, which if they be opened, not in the fless or membranous parts, but in the very ends of the bones, you may perceave them to be rooted in their appendances; and if you will file away those prominencies of the bones, you will easily perceive them to be of the fame fimilary fubstance with the other parts of the bones.

5 The articles or joynts, and the habits of all the external parts are lefs firm and rigid, and more flexible then at another time they are obferved to be in dead bodies; and in particular the Neck after death is fcarce fliffe with cold, at least much lefs then in other Carkaffes. 6 The

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6 The Breft is outwardly lean, and very narrows efpecially under the arms, and feemeth on the fides to be as it were comprefied,

where the ribs meet.

+ That pare of the breft the + Stern allo is formwhat pointed, like the Keel of a Ship, or the breaft of a Hen. 4 infection infe

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7 The top of the ribs to which the ftern is conjoyned with griffles, are knotty, like unto the joynts of the Wreft and Ankles, as we have already faid.

8 The Abdomen indeed outwardly in respect of the parts continent is lean, but inwardly in respect of the parts contained it is fom what flicking out, and feemeth to be fweld, and extended. And these have been our Observations before the opening of the bellies.

11. The Abdomen being opened, we have Noted thefethings:

The Liver, in all that we have diffected, hath exceeded in bignesse, but was well coloured, and not much hardned, not contaminated by any other remarkable vice. We desire som bodies should here be excepted, in which other Diseases before death were complicated with this, as in a Dropfie & an extream Confumption we remember to have hapned.

2 The Spleen (namely fo far as hitherto it hath been lawful for us to observe) for the most part is not to be contemned, whether you confider the magnitude, the colour, or the substance of it; notwithstanding we do not deny but it may otherwise happen in regard of a complication with other Dif-3 We cates.

3 We have fometimes effied a wheyish water to have glided into the cavity of the Abdomen, but indeed not often, nor in any great plenty.

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4 The Stomach and Guts are fomewhat more infected with flatulent humors, then found bodies ufually are, which partly may be the caufe of that extension of the hypochondriacal parts above mentioned.

5 The Mefentery is fometimes faultleffe, and fometimes affected with glandulous excreicences bigger then ordinary, if not with fwelling bunches: But concerning the fweet breadwe declare nothing for a certainty; only we fulpect that obftructions, if not a ichirrhus, may fometimes invade that part. But thus we delegate, to the enquiry of others.

6 The Kidneys, Ureters, and Bladder, unleffe there be a concomitancy of fome other Difeafe, are laudably found. We obferve in general of all the Bowels contained in this Belly, that although the parts containing them, as we have noted above, are very much extenuated and emaciated, yet are they as large and as full, if not larger and fuller, then those feen in found bodies, as hath been faid of the Liver.

111. The Sterne being with drawn, thefe things have prefented themfelves in the breaft.

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I A certain adherence or growing to of the Lungs with the \pm Pleura which hath been more or leffe difcernable in all the Bodies which hitherto

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we have cut up. Yet we suppose that this affect may happen without any such nourishment, although in the advancement of the Disease for the most part it cometh before the Patient die.

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2 The flopings or fluffings of the lungs are no lefs frequent, especially in those coadhering parts. Hard humours also engendered by a thick, viscous, and blackish bloud, sometimes in one, sometimes in many of the strings of the Lungs, yet are not these alwayes conspicuous, many times also Imposthums and Ulcers.

3 One amongft us doth atteft, That he once faw glandulous knobs and bunches, fo numerous, That they feemed to equallize, if not exceed the magnitude of the Lungs themfelves: They were fcituated on both fides between the Lungs and the Mediaftinum (that is the Membrane that divides the middle belly) and were extended from the Canelbone to the Diaphragma.

4 In the cavity of the Breaft we have lometimes feen a collection of wheyifh waters,& indeed more frequently then in the cavity of the Abdomen, but not in all.

5 One amongft us hath likewife feen this affect complicated with a great Impoftume, and with the Pryfick: the Stern being removed, all the Lungs on the left fide were intected with an Impoftume, and on every fide growing to the Pleura, and the humour being lightly crulhed, a copious, thick and flinking Matter of a yellowilh colour, flowed out thorow the fharp artery into the very mouth: The outward Membrane of the Lungs whereby they firmly adhered to the Pleura, appeared thicker then ordinary, and by the mediation of it, the ftrings om that

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that fide did fo grow together, that you could fcarce diffinguish them for fuch: the same Membrane also, involved both the Lungs and also the Impostume it felf, which being opened the magnitude of the Imposthume was differnable, which by the estimation of those that were present, contained at the least two pound of water.

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6 The kernel in the Canel-bone in Childhood is alwayes observed to be great, and perhaps greater yet in those who have died of this Disease.

IV. The Skull being fawed thorow in a circular Figure, and the little cover being removed, we have observed these things :

I The Dura Mater hath been more firme, and adhered to the Skul in more places then is ufual in men of ripe years : perhaps the fame may be oblerved in other Children not affected with this evil, although, as we fuppofe, not in fo great a manner: for certainit is, That in new born Infants there are many and ftraight connexions between the Pericranian and the Dura Mater which are afterwards broken off and are fcarce differnable.

2 In fome Bodies that we have diffected, between the Dura and the Pia mater, and in the very ventricles of the Brain, we have found wheyish and waterish humours; from whence it is manifest, That this affect is complicated with the Hydroeephalus.

3 We have found the Brain in others that we have opened, to be firm and inculpable, and not overflowed with any waterifh congestions.

4 Laftly, We have observed in some Bodies late-

ly

(16) Iy opened, That the Carotides have exceeded their just proportion, and fo alfo have the jugulary Veins; but the Arteries and the Veins which are delated to the outward parts, were of an unufual flenderneffe,

But whether or no this be perpetual in this affect we cannot yet witneffe by an occular teftimony; yet we conjecture, That it happeneth fo perpetually, but it came not fooner into our minds to examine it, fince the beginning of our Anatomical enquiries into this fubject.

These things being premised, our next Disquistation shall be to find out the Essence of the Disease.

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CHAP. III.

Certain Suppositions are proposed for the easier finding out of the Essence of the Disease. First of the Essence of Health Secondly of the Essence of a Disease. Thirdly of a threefold Division of Health and Diseases. The Explication of the third Division, and the Use of the same. The Description of a natural Constitution, and the exaltation of it. The Fourth Supposition of the Combination of three Constitutions in the same parts.

Hat we may proceed the more diffinctly and clearly in the finding out of the Elfense of this Disease, we judged it very advantagious to premise these subsequent Suppositions:

I That the Effence of Health doth confift in fome Confitution of the Body according to Nature. But feing this is twofold in the kind, one Effential and neceffary, refpecting the to effe fimply, which during life continueth immoveable and immutable under various affections, and is indivifible: The other Accidental, having reference to the to bene effe, which in refpect of the whole Animal, is both moveable and mutable;

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table; and hath a great latitude, and can be prefent or abfent without the diffolution of the whole. Health confifts not in the former, but in the latter Conftitution.

II. That the Essence of a Disease in like manner confisteth not in the Essential Constitution ; For io the diffolution of the whole would by and by follow : But in the Accidental Constitution, namely fuch an one, as in respect of the whole can be present or absent without its diffolution. We have faid (and not without reason) that this Constitution wherein Health and Sickneffe are founded, is moveable and accidental in respect of the whole; for even this also in respect of some part may be essential: as for example, a finger being cut off, a Disease ariseth in the defective number of the parts, which in respect of the whole, is founded upon an accidental Constitution; for that finger may be present or absent without the diffolution of the whole; but in respect of the loft member it is founded upon an Effential Constitution, for this Disease being supposed, the Effence of that finger perifheth.

111. That the Constitution wherein the Effence both of Health and Sickneß confisteth, admits a threefold manner of division or distinction in the method of Discipline. The first is fomewhat thick, and is refolved into parts altogether Concrete, namely, It proceedeth Kata topous, according to the division of the parts from head to heel. The fecond is purely abstracted, and fearcheth out all the Elements of the moveable Constitution, from whence cometh the division of Diseases into fimilar, organical, and common; and then again those various subdivisions into distempers, faults of figure, superficies, cavities and patfages,

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fages, of magnitude, number, fite and continuity. The third is as it were a middle manner, and although it hath been hitherto neglected, yet we dare avouch, That it may have its ufe, and that no contemptible one, in the handling of Difeafes, and the finding out of the caufes of the Difeafe; and it is divided into a Conftitution Natural, Vital, and Animal.

The first is proper to, and inherent in every part, absolutely competible to it, and wishout any dependance upons the other parts according to the Effence of it fimply: This remaineth a while after death, till it be refolved by Putrefaction, Ambustion, fimple Exiccation, Mummification, Petrification, and the like violent Caules. This Conflicution in respect of its fimple Effence, doth not depend upon those Members which minister an Influx, but it dependeth upon them both in respect of its Confervation, and likewile of its Operation. For the vital influx ceafing after death (which is as it were the falt and condiment of it) quickly perifheth, and as long as the creature liveth, this is varioufly affected by the influxes, and thereupon the actions are either promoved or interupted. house

The Second is the Vital Conftitution, which is produced by that continual influx from the beart thorow the arteries into the parts of the whole Body. This allo it admitteth degrees, and is often fubject to variations more or leffe, and fometimes alfo feemeth to fuffer a kind of eclips, as in a fwouning, a fyncope, & c. yet it perfevereth from the beginning to the laft period of life (at leaft in its fountain, and in fome other parts.

The Third is the Animal Conflictution, which is derived D 2 from from the Brain thorow the Nerves into the Organs of Senfe and Motion. This is many times totally wanting in many parts, the life notwithstanding remaining; yeait might for a long time together be defective in several parts, or all the parts, did not respiration, which is abfolute neceffary unto life, depend uponit. These Constitutions therefore keep such a connexion between themfelves, that the fecond doth eternally and continually prefuppole the existence of the former, and the third of the fecond; but there is not back again fo abfolute a dependance between them, becaute (as we have even now faid) the former can for some time subfift without the fecond, and the fecond commonly altogether without the third : And these three Constitutions may in most bodies be manifestly perceived, yet we affirm not that they may be tound in all. The Natural indeed and the Viral are wanting to no part : but the Animal is defective in the Bones (though the teeth will admit some doubt) griftles, perhaps ligaments, and fome fubstances as of the Liver, Spleen, &c. we affert therefore this threefold Conftitution to be in all those parts, to whom the Natural, Vital, and Animal Faculty is communicated. For although these Faculties as to the first act may be faid to depend upon the Soul (which relation hath indeed no relation to the Medicinal art) yet in respect of the fecond act they are neceffarily rooted in some material Conftitution of the parts to which they belong. For whereas some fay that the Vital Faculty is derived from the Hearr, and the Animal from the Brain unto the other parts, that must not fobe understood, as if the Faculties themfelves in a wandring manner were transient from part to part (for the passing of an

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an accident from fubject to fubject cannot be conceived by any understanding) but that the Vital Faculty is derived with, and in the vital Spirit from the Heart unto the parts, or at least is excited by some motion of the Heart and Arteries in the parts themfelves, and in like manner the Animal Faculty doth descend in and with the Animal Spirit by the Nerves, or is produced in the parts by fome motion of the Nerves in the Brain. Which way foever it comes to paffe, we must needs confesse that some alteration is imprinted in the part it felf receiving it either from the faid Spirits, or from their motions. Which alteration as it is here granted to be the root of the Faculty, either Vital, or Animal in the respective parts, fo is it a moveable Conftitution, becaufe it can be varioufly changed, remitted, and intended without the diffolution of the whole; and it is the Conftitution wherein either Health or Sickneffe may confift, feeing that whenfoever alteration is deficient unto the parts wherein it ought to be, or any other wayes administred then is requisite, the action will thereupon be unavoidably depraved; but if it be rightly performed, then found and perfect health is faid to be prefent from the part of that Constitution. Confidering therefore that there are two kind of Alterations belides the natural and inherent Constitution, one from the influx of the Heart, another from the influx of the Brain in most parts; and feeing the faid alterations, as they themfelves are more perfect or more imperfect, do render the Faculties in the respective parts (at least as to the second act) more perfect or imperfect, and that the actions are thereupon depraved or found, it is neceffary that this threefold Constitution relide in most of the parts, D and 2

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and that the faid kind of alterations be medical conflications whereon Health and Sickneffe may be grounded.

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That this Division or Distinction is not frivolous or altegether unprofitable, appeareth from hence, because the practical Physitians in their Methods do rightly admonish, that in obscure Diseases the Faculties must be accurately observed, when their actions are seen to be depraved, which diligence may ferve as it were for a Manuduction to guide us to the Origine of the affect; now it it be a confideration of so just importance to note the interupted Faculties in Diseases, certainly it will be an exercise of no less moment to take cognizance of the Conflictutions themselves, upon which those Faculties have an immediate and strict dependance.

Now least any man should conceive that there is almost a coincidence between this third Division and the fecond, he may observe, it he will diligently weigh the matter, That every member of this division doth in some manner include al the members. of the next precedent, namely that the natural Conflitution doth comprehend primarily indeed the iimilar Conftitution, but that secondarily and in order to the whole creature, it containeth in a fort the conformation and continuity; in like manner that the Vital and Animal Constitution do in their way fo clearly participate of all the Members of the faid Division, that to offer proofs of it were an unnecesfary undertaking: Only we defire the Reader to take notice (which also we even now intimated) That the natural Confficution primarily and principally hath refpect unto the temperament, the common qualities, the plenty of the Spirits, and the peculiar

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culiar disposition of them (which by some are refered to the form and the whole fubitance) but that it hath respect unto the manner of the Organe and the continuity as it were fecondarily, and in order to the whole creature, and that it can fcarce be otherwife hurt or vitiated by them. Yet we must not deny but that the natural Conflication is fometimes vittated as it is meerly Organical, for thus it falleth out in the obstructions of the natural passages; as for example, when a stone is impacted or grown to hardneffe in the paffage of the Meter or the yard, and in the like cafes : but this happeneth unto it efpecially in as much as the paffage is ordained for the ule and contervation of the whole; but for the most part the Organical vices in the natural Constitution are of leffe note and confideration then the fimilar.

These things may suffice to be spoken in a general way of this triple Constitution. We will now in particular speak a few things of them in tew words.

The Natural Confitution which is proper unto and inherent in every part, may be known by this difeription, That it is the manner of the natural Being, letled in the parts, competible to them, in as much as they are aptly conftituted by their temperament, and common quallities, by their fufficient portion and convenient difposition of ingenerated Spirits, and by their just conformation and continuity, to a perfect performance of natural actions, togetter with the concurrence of the Vital (and perhaps the Animal) influx. Therefore when there is in any part a just temperament, convenient common qualities, an exquisite proportion, and harmonious dil-D 4

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polition of inherent Spirits. Finally, when there is a laudable conformation and unity, and yet notwithstanding all this, the natural action is depraved, we may well conclude that it is not vitiated by the narural Conftitution, but by realon of the concurrent caufe, namely the vital or natural influx, or of both together; for the natural actions in creatures in regard of the union and wedlock of life, are exalted to a more eminent condition then otherwif they would attain unto by the natural Constitution alone, And from hence it comes to passe, That although the natural Confittution in flain Creatures remaineth after death undepraved for a while, yet the attractive and retentive Faculty, the concoction of the aliment, and the expulsion of the exctement do altogether ceafe : And in Difeafes also many times the natural Constitution is at first untoucht, yet the narural action is vitiated meerly by the defect of the due concurrence of the vital influx ; after the fame manner fomttimes the natural and vital Conftitution being found and healthful, yet fome natural action is depraved by reason of the defect of some animal influx and concurence : but this for the molt part happeneth only in the Nervous, Fibrous, and Membranous parts, especially where they make a hollownesse, but seldom or not at all in the substance of the parts : As in the Palfy the excrements are many times unduly retained, by realon only of the aftonishment and insensible of the guts, the other conftitutions being found. Therefore in thele cafes, when some natural action is hurt, we mult not prefently conclude that the natural Constitution is first vitiated, but we must with dilligence enquire out that Constitution which is first vitiated, for that 15

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is to be looked upon as the root and first effence of the evil; in like manner if some vital action be depraved, we must not prefently inter that the vital Conflicution is primarily vitiated; becaufe fometimes the first Origin is more rightly deduced from the natural, or perhaps the animal Confficution : as for example, Through the intenfiveneffe of cold, a finger is mortified by inflamation : in this cafe it is true that the influx of the vital bloud is plainly intercepted; yet the beginning of that interception must be fought out in the natural Constitution of that very part lo benumned : So also in a Convulsion the circulation of the bloud is perhaps fomething disturbed and interupted ; but the first depravation must be alcribed to the animal, not to the vital Constitution. On the contrary, in a Feaver the Head is invaded, but the fource of the evil will peradventure be found out in the vital Conftitution : fo perhaps the Flesh is wasted, and al the natural Spirits are decayed ; yet the root of the evil wil be found out in the vital, not in the natural Conftitution : So that any Conftitution of the three before named may be in feveral Difeates, fometimes the first, fometimes the fecond, and fometimes the third caufe of vitiated actions.

Not only many other parts of the body (yea fimply al the fenfible) which exhibit not an influx, neither are fubfervient as delatory parts, do naturally admit this threefold Conftitution, but befides alfo even the Heart it felf, and all the arteries, and the Brain and al the nerves, fo that the Brain (excepting the fault in its natural Conftitution) may be cherifhed and helped by the vital Spirit which is tranfmitted thorow the yeins and the arteries, being wel affected,

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affected, or vitiated and hurt if that be ill affected : And after the fame manner alfo may the Heart by the animal Spirit which hath an influx thorow the recurent nerve of the fixth pair, the arteries alfo by the animal influx thorow the nerves by a way perhaps not yet found out: And Finally, The Nerves alfo by the vital Spirit deduced thorow the Arteries.

CHAP. IV.

That the Effence of this Difease confists not in the Animal or Vital, but in the Natural Constitution; not as Organical, but as Similar: Three Limitations are Propounded.



sta sta Hefe things being Prefuppofed, We 5 Ihal proceed to enquir in what Con-2 flitution of the parts the first Root or Effence of this affect is lodged. Be the first Conclusion therefore this,

The First Root of this Affect is not in the Animal Constitution, or in that which dependeth upon the Influx of the Brain into the parts. Indeed we confeffe that al the nerves which without the Skul proceed from the spinal marrow, are found to be loose and weak in this affect ; yet this doth not here feem to arife from a detect of the influx of the Brain, which we thus prove, First the loofnesse and weakneffe

(27) neffe of the nerves, which cometh primarily from the Brain, is almost alwayes confociated with fomnolency and drowfineffe; but this Symptom happeneth but rarely, and by accident only in this affect. Secondly, As we remember, we never knew the Palfy, or the Apoplexy to supervene or follow upon this Difease; but it ought necessarily fo to do, and that very often (at least in the confirmation of the Difeale) if this loofneffe and weaknets of the nerves fhould take beginning from a defect of the influx of the Brain. Thirdly, We have observed the Brain to be fufficiently firm and inculpable in many diffe-Eted after death. Fourthly, For the most part those that are afflicted with this evil are ingenious in respect of their age, which doth evidently attest the vigour and vivacity of the Brain.

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The Second Conclusion. The first root of this affect is not in the Vital Constitution, or in that which dependeth upon the Influx of the Heart into the parts. An unequal distribution of bloud indeed almost (if not altogether) perpetual may be observed in this affect : neverthelesse the chief reason of this inequality mult be ascribed, not to the inequality of the influx of the Heart or Arteries, but to the unequal reception and unaptnesse in the parts themselves to receive it; for the Heart and the Arteries do for their part indifcriminately or equally distribute the bloud with the Spirits every way into the parts. But if it fo fal out that an Artery of some part be interupted in his function by reason of the benumnednesse and stupetaction of that part, or the parts adjacent, there is a neceffity that the bloud must be minutely transmitted thither, and fo unequally in respect of the other parts which expeditely and aptly recease the bloud. ThereTherefore in this cafe this inequality of diffribution doth properly and primarily depend upon a preexiflent fault without the artery pertaining to the natural Conftitution of the parts.

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Object. But some may Object, Although perhaps the aforesaid inequality bath no dependance upon the Heart, yet it may so happen that a weak Pulse may suffice to distribute the bloud thorow the lesser Circulations in the inner parts, which nevertheless may not be altogether so sufficient to undergo that duty thorow the greater Circulations in the outward parts which are more remote from the Heart, the fountain of bloud.

Anfw. We Answer, That this Objection was formerly of logreat importance with one of us, that he supposed such an inequality of the vital influx did belong to the prime Effence of this Disease, and did therefore endeavour to deduce the reason of the first Symptoms from it. But after fecond thoughts, the matter being more neerly and deeply examined, he was of Opinion, That this inequality of the vital influx had no relation to the primary, but to the fecondary Effence of the Difease. But we return to the folution of the Argument. And First we grant indeed that in this affect there is an unequal distribution of the bloud; and that in the internal parts and in the head it is more liberal, in the external more sparing. Secondly we grant that the Circulation of the bloud may be kept in the inward parts, even although no Pulse apear in the outward parts; but this happeneth only in a vehement either weakneffe or oppreffion of the vital Spirits, as in a fwouning, and a strong hysterical paroxism, or fit of the Mo-

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S, S; Mother, in which affect fome that have been accounted for dead have been feen to revive again. Thirdly we grant that a more liberal Circulation of the bloud may be in the internal then the external parts, yea and in fome one external part more then in another, as it happeneth in the inflamation of fome external member.

These things being granted, we affirm, that in the first Cafe the inequality of the distribution of the bloud doth not principally depend upon the weakneffe of the Pullifical vertue for as much as concerns the heart; and the reafon hereof is plain. For the heart, as we have already faid, dothemit the bloud indifcriminatly or equally, and with one continuation from it felfinto the Aorta or chief artery, even at luch time when as the Pulle is most weak. This artery doth exonerate or disburthen it felf again with al poffible expedition, and from hence proceedeth the inequality of the diffusion of the bloud, as the bloud is more eafily impelled from on rivelet then from another. This inequality notwithstanding must not properly and primarily be attributed to the heart, but to the recipient parts, and to the particular transmitting arteries. For any primary affect of the heart is necessarily universal, and communicated to al the parts of the body : wherefore although we grant this enequality of the Circulation of the bloud to be in the fecondary Effence of this Difeale, yet we exclude it from the primary.

Moreover in the Second Cafe propounded, we fay that there is a great difparity between the cafes of extream neceffity, and ordinary cafes. Neither indeed do we know whether in the faid cafes the circula-

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culation in the inward parts, howfoever it be granted, be of any moment. And for fo much as concerneth the prefent bufineffe, we deny any fuch debility of the heart in this affect, that the Pulfe should be defective in the outward parts; yea we have not observed that any one afflicted with this Disease hath been prone to fal into an extacy, or a fwouning; which would readily happen if the origin of the Difease were rooted in the debility of the heart it felf. Befides when we have feen fuch as were fick in their tender age, to endure without any lofs of ftrength fometimes a liberal eduction or flowing forth of the bloud from the opened veins of their ears, yea and feen it fometimes reiterated with good fucceffe. Finally, When also they have very wel endured purgations, with respect had to their age, it doth not appear to us how the first root of the evil can be afcribed to the weakness of the vital con-Airution.

In the Third Cafe it is evidently manifest that the first cause of this unequal circulation of the bloud is some disposition of an outward part, as in an inflamed member, laboring under some private Disease, there happeneth a more ful and impetuous Pulse by reason of the accidental heat of the artery, infused by the immoderation of heat which is in that outward part.

Therefore feing that the Effence of this affect cannot be primarily rooted in the animal nor the viral Confliction of the parts (as we have now fhewed) it followeth (which fhal be the Third Conclufion) That the primary Effence, or first root of this affect, sonfisteth in the proper or inberent constitution of the parts. But because the natural Confliction (as we have faid

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faid above) confifteth partly in the common qualities and the temperament, and partly in a just plenty and disposition of the inherent Spirits, and again partly in the organical construction and continuity; our next enquiry must be to find out in which of the prementioned constitutions it lodgeth, and whether it be rooted in one alone, or in many, or in altogether. Be the Fourth Conclusion therefore this:

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This affect is not radicated in the Organical Confitution of the parts. For although in progreffe of time the Organs themfelves are divers wayes affected in refpect of their conformation, quantity, and fite, as it is fufficiently manifeft from the encrealed bulk of the head, liver, &c. from the tumours of the bones unto the wrefts, the ankls and the extremities of the ribs; from various obftructions and the extenuation of the outward parts; feing nevertheleffe that al these things depend upon a higher origin, and howfoever allo we may neceffarily admit these things in a Difease confirmed, and now varioufly compounded; yet in the original Effence, we presume, for the fubsequent reasons they are to be rejected.

First, Because the depravations aforefaid in the Orgamical parts do not appear presently in the beginning of the Disease, but encrease afterwards by little and little : And although perhaps some of these may be faid from the beginning to have taken root in the body, notwithstanding they cannot as yet be immediatly difeerned by the sense, neither do they manifestly hurt any actions, and for that reason they cannot appertain to the first Effence of the Disease.

Secondly, Because the Organical vices aforesaid are not the Causes but the Effects rather of the chief Symproms which from the beginning exhibit themselves in this affect. affed. For the augmented figure of the head, liver, &c. the flanding out of the bones, and the leannesse of the external parts, are more rightly refered to the inequality of the nourifhment, then on the contrary the inequality of the nourishment should be aferibed to them : For when one part doth excessively encrease, and another is defrauded of a due & decent augmentation, there is a neceffity that a disproportionare and an unequal nourishment must not only be prefentin the parts, but also have had a preexistence in the body, whereby one part is nourifhed, and another neglected beneath a mediocrity. But leeing this unequal nourishment is a depraved action, and fo a Symptom presupposing some preexistent Difeafe, and yet withal (as we have faid) doth precede, as a cause, the organical vices aforefaid, it is manifeft that those organical vices are not the first root of this Disease. As for the obstructions which indeed are for the most part conjoyned with this affect, yet neverthelesse there is a great deal of reafon to exclude them from the first Essence of this Disease, because they neither specificate the Difeafe, neither can any reason of the Symptoms be rendered from them, neither do they perpetually beliege fome certain and determinate noble part. Some man perhaps, who hath respect to the exceffive magnitude of the liver, may object that in this affect that is perpetually obstructed, and thereupon the fanguification being vitiated the other things are preposteriously derived; but if this swelling of the Liver did alwayes proceed from the obstruction ofit, then a palenesse of complexion, a cachexia or indigestion, and by the advantage of time, the Dropfie it felf should necessarily and perpetually accompany

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pany this affect : Moreover, The Liver should alwayes be feen to be vitiated in the colour, and at the diffection hard tumors and knots should be obferved in the lubstance of it, especially in an invererate affect, and that which killed the Patient ; but teing these things do not frequently (much leffe perpetually) occur in dead bodies, the augmented bulk of it must rather be refered to the irregular nutrition : Moreover, we deny it not but that we have observed by Anatomy in those who have perished of this Diseale, obstructions, various tumours, and knotty excrelcencies in the Lungs, but we attelt withal, That we have feen some Infants, yea Boys lightly affected with this evil, in whom there was no fulpicion of vitiated Lungs, for there was no cough, no impediment of respiration, which necelfarily is an individual companion of the obstruction of the Lungs.

Thirdly, Becaule a fufficient reason of all the Symptoms proper to this Difease, may more cleerly and easily be derived from other fountains, as we shalfee anon.

And thus we have fufficiently proved, That this affect in respect of the first Effence of it, confists not in the Organical Constitution of the natural parts. The fame arguments wil more effectually convince (more might be produced, but we judge accumulations unnecessary) That this evil is not radicated in the continuity of the natural parts, fo that there needs no more words to prove it.

The Fifth Conclusion. The Disease in primarily rooted in the fimilary Constitution of the natural parts : And therefore in respect of the radical Effence therot, it is a fimilary Disease. And because a fimilary E Diff

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Diseale, as fuch, is not perpetually Simple, but fomtimes varioufly compounded (namely a Diftemper is either Simple, or Compound, and this becomes fuch, not only by the first qualities among themfelves, but perhaps by hidden qualities conjoyned together; or, which is more agreeable to our Conceptions, efpecially in the prefent bufinefs, by a kind of fure proportion and medification of the inherent. Spirits) We judg this to be a Compound Disease, and we affert the prime and radical Effence thereof to confift in a cold and moift Diftemper, with a Defect and stupefaction of the interent Spirits, concurring in the inherent conftitution of the parts primarily affected. But before we proceed to an higher Explication of this Opinion, we wil premise some Limitations ofit.

The First shal be this: That in this Disease, some parts of the Body are Primarily, and others Secondarily affected: And truly, to us the External parts seem sooner to be affected than the Brain and Bowels, as we shall declare more at large when we come to speak of the parts affected.

The Second is this: That in those parts alone which are Primarily affected, do labor under a notable cold Distemper with penury and stupefaction of spirits: For the Brain perhaps and the Bowels may be moderatly hot, and sufficiently abound with Spirits, by reason of the copious vital influx; and moifture may exceed in them by reason of the affusion of our overplentiful aliment: but the other External parts are alwaies affected with a cold and moift Distemper, and a benumednets of the natural Spirit,&c. Wherupon we affert, that in this Disease they are primarily affected, and that they alone are the seat of the first Effence of this Disease. Be

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Be this the Third : All the External parts, and those first affected, do not equally labor under a cold and moife Distemper, and with benumedness of Spirits, Sc. For the Ligaments, Tendons, and Nerves, are in their own nature more cold, and less moist; the Muscles, or fleshy parts are rather more moist, and less cold : the skinny parts usually retain a mediocrity, yet all the faid parts recede more or less from the natural towards a cold and moist temper. And in like manner, although some of the faid parts do require a greater plenty and activity of Spirits than others, yet al of them a just proportion, being observed to the plenty and activity respectively due to each of them, are defective and defiture of that just proportion.

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CHAP. V.

The preposed Opinion is examined by Parts. First, That this Disease is a cold Distemper. An Objection, and the Answer thereunto; That it is moist: That it consisteth in the penury or paucity of the Spirits. An Objection, mith the Answer. Finally, That this Disease consisteth in the stupefaction of the Spirits.

Ow let us more neerly examin the Opinion propoled, and affert it by N S22 parts.

First, That the parts first affected do labor under a cold diftemper may be proved. First, from the unequal and diminished nutrition of the faid parts; for as the inborn heat when it is augmented to a just proportion doth very much conduce to further the concoction of the Aliment; so if it be too remis, it eafily retardeth and leffeneth the fame.

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Secondly, The fame diftemper is proved from the flownels and unaptnels to motion; and alfo from the averfation to exercife, and defire to reft. For as the activity and agility of the Body is attributed to the Heat, fo the tardity and flothfulnels of it is in great part alcribed to Cold, Namely, fuppoling (as before) that this flothfulnels hath no dependance

pendance upon the fault of the animal influx.

Thirdly, It is further confirmed, becaufe this Difeate many times followeth other accute Difeafes, whereby they end not feldom (after the Waft or Confumption of the Natural heat) in a cold diftemper.

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Befides, It allo receiveth Chronical Dileafes which extenuate the Body, and fuch as in any manner are prone to leave a cold diftemper behind them as Pertinacious Obstructions, the Scurvy, Cachexy &c.

Moreover, Becaufe it fucceedeth the importune fupprefilion of Scabbednefs, and Impetiginous effects, as we have often obferved, when the Scabs have newly broken out again, and the 1tch is revived, fuch Boyes have been eafily reftored to health, becaufe by that means the Natural heat is reaugmented in the outward Members.

Laftly, Becaule many times it happeneth after a continual use of cold, thick, and viscous aliment, after furfeting and idleness, and the like evident causes, either diminishing or overwhelming the Natural heat.

Fourthly, It is yet more plainly evinced, becaufe those helps which excite, augment, and cherist the heat in the outward parts, as various agitations, rubbings, and anointing of the Body, do contribute a large fhare to the advancement of this Cure. These things being all cast together into a heap, it is sufficiently confpicuous that a cold distemper of the Natural constitucion of the parts first affected is contained in the primary effence of this Disease.

Object. But here we meet with a specious Objection, That a little Feaver, especially a flow one, or fuch as n erratical and wandering, n frequently conjoyned with this affect, which at the same time seemeth absolutely inconfistent with a cool distemper. For all Feavers by all men are accounted to be a hot distemper which n diametrically opposite to the said essence.

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We Answer (that we may not here interpose any thing concerning the effence of a Feaver) we freely grant, for fo much as concerns the prefent Queftion, that a Feaver is a hot diftemper; but this doth not chiefly confift in the Natural conftitution of the parts, but in the vital constitution, namely in the influent heat preternaturally affected. For a Feaver is not some private Disease, but universal, and is diffuled from the Heart through the Arteries in and with the vital Spirit, be it either overheated, or otherwise viciated. For this preternatural heat hath only a respect to that inherent as a cause potent and able varioufly to alter it, yet indeed by degrees and little and little. For first the influent heat is manifestly an actual heat, but the heat of the natur ral constitution is only potential : wherefore we affirm that a cold diftemper in respect of a natural and porential heat may confift with a hot diftemper in respect of an actual and influent heat. For indeed an actual heat is not fo directly averfe to a cold distemper, which is so called by reason of a detect of the potential heat, but it may (the caufe perfevering) confift for a good while with it. As for example, there is an actual hear in Simple Water, Barly Water, diverse Juleps and the like being made hot, although at the fame time they are potentially cold. So that to be actually hot, and potentially hot differ not in the Degree, but in the Species, neither are they fo directly contrary to one another, that one mult

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must prefently expel the other out of a fubject. Moreover, Secondly, The influent hot diftemper doth not fo much correct the inherent cold diitemper, as by accident it augmenteth it, namely by a waft and diffipation of the Natural Spirits, wherein chiefly the natural and potential heat refides: Just after the fame manner as the actual heat introduced by the fire diminisheth the potential heat of the Wine, Whereupon any kind of Feaver supervening upon this Disease, usually brings more damage than advantage to the lick.

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Secondly, We affirm, a moift diftemper to be lodged together in the parts first affected; this is manifelt from the laxity and lottnels of the faid parts: and this fign likewile doth more ftrongly confirm the fame thing, because the faid parts are extenuated, fo that unlefs there were a redundancy of moifture in them, a certain rigidity and roughnels would affault the touch; again, a cold diftemper doth very rarely continue long without a moift : and laftly, things helpful and hurtful attest this truth, for drying things are helpful, and moiftning things are hurtful.

Thirdly, we affirm, That in the parts first affected there is a penury of natural spirits. This is proved by the very same arguments which we produced to evince it to be a cold diffemper.

For first the unequal and imminute nutrition of the parts first affected doth not only argue a coldnels of temper, but withal, a want of natural spirits, for otherwise this defect of nutrition might be easily corrected. For the cause of that coldnels wherewith the defect of the spirit is conjoyned, or some peccant humor is not impacted, is easily cashired, and fooner then is wont in this difeafe, as may b feen in the parts grown extream cold in the winte feafon; for example fake, in the handling of fnow; the parts fo extreamly cooled provided that they be rightly handled, wil return to their priftine temperamet in few hours but wher there is a diftemper with the matter of it, as a cale conjoynd, or where ther is a defect of the inherent spirits, such a distemper indeed is not fo foon nor fo eafily removed. But in the prefent affect we cannot affirm that a conjoyned or 1mpacted matter of any note is (at the least alwife) caufed in the parts first affected, because they are observed to be more withered, feeble, and extreamly extenuated, and feeing this affect is very different from Cachexia and the Virgins difease; in the which for the most part, it is not the want of Spirits, but the conjoyned matter that cherifheth the cold diftemper: wherefore we may rightly infer that the pertimacity of this evil doth chiefly depend upon the detect of the natural Spirits. Secondly, The fame is proved after the fame manner by the fecond argument before alleadged for the cold diftemper, namly from floth and averineis to excercile. For activity hath not only a dependance upon the temper, but chiefly upon the fulnefs of the Spirits : as may befeen in ftrong and heathful men, who in winter time, and hardeft froft, are more prompt and inclinable to violent exercises, then in fummer, when the inherent Spirits are wont to be formwhar diffolved, Thirdly, Feavers, and long extenuating difeales, as they often introduce a cold diffemper, fo they evidently diminish and diffipate the inherent Spirits. To these we ad that argument which is deducedfrom the conflicution of the Parents. the Parents that are more firing and lufty (experience WIC-

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witneffeth it) and accuftomed to labour, feldom bring forth children obnoxious to this difeafe : on the contrary, fuch as are weak, fickly, idle, tender, delicate, very prone to immoderate, premature, or decriped Venery, fuch as are troubled with a Gonortivea, &c. for the most part beget children fubject to this affect : Namely, because the Seminary principles are turnished only with a deficiency of Spirits. We should now proceed to the fourth affertion, but must first remove a remora that cometh in the way.

Object. For some may object. That the natural cold distemper is subordinated to the want of Spirits, and not contradistinguished to it, as us here supposed. For the paucity of the Spirits seemeth to be the very cause of the cold distemper, and the natural heat be it more intense or more remiss, seemeth respessively to follow the proportion of the natural Spirits, as being radicated in them as their first subject.

Weanfiver. First, That the inherent heat is indeed fift grounded and fubjected in the inherent Spirits. Moreover as the inward heat is divided into two par s, namely, the natural, and the acquired heat; fo the inward Spirit must be also concei ed to be twofold, the primigenial or feminal derived from the Parents in the feed, and the acquired Spirit contraeted f om a perfect affimilation of the aliment, the former Spirit is the bafis of the engrated natural heat, the latter of the inward acquired heat; we mean, not that these heats and Spirits are in themfelves diffinct in the species, but only in their origin and degree of periection, which is fufficient to invelt them with a various appellation. For in nutrition the affimilation of the aliment proceedeth even to a specifical identity, and not an individual, although lometimes, allo it attaineth not the degree of original

nal perfection. For which caule it feemed fufficient to us to have named the implanted heat, and the implanted Spirit, without any higher diffinction; and therefore we grant that the implanted heat is first subjected and rooted in the Spirits, and that it is nothing elle then a certain modification of the faid Spirits, whereby they being irradiated by the vital heat do delight to indeavor to diffule themfelves and to enlarge their dominions, by attracting, retaining, affimilating the aliments like unto themselves by severing the excrements, and lastly, by disposing the things acquired in due places : we fay, likewife that this endeavor (wherin we place the effence of heat) by reason that it is diffusive doth somwhat diffipate and wast the implanted Spirits, which because of this effect are vulgarly called by the name of radical moisture continually devoured and confumed by the heat. Thus far we grant the argument : But in the fecond place we affirm that the implanted heat doth differ fro the hot implanted temperament; for the implanted heat is only a part of the hot implanted temperament, for not only a Spirit, but fulphur alto, and falt, or perhaps choler, contribute their heat to the constitution of the whole hot implanted temperament, wherof the implanted heat is only a part. Wherefore it is fally fuggested in the propounded argument, that a plenty of Spirits is the fole caule of a hot diftemper, and a paucity of a cold diftemper : for a pound of the flesh of an infant containeth more implanted Spirits then a pound of a yong mans fielh : yet it is most evident that the temperament of a yong man is far more hot then that of an infant:a.hot temperament cannot therefore depend upon the fole plenty of the Spirits, nor a cold temperament upon a want of Spirits.

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Spirits. Moreover in many maladies a hot diffemper is confiftent with a paucity of Spirits; as in a *Hectick* of the third degree; in like manner of a cold diffemper with a competent plenty of Spirits, as in the Green ficknets.

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We fay thirdly, That a plenty or paucity of Spirits is not perpetually a fufficient caufe to determine the temperament either hot or cold; as on the contrary, neither doth a hot, nor a cold temperament certainly and neceffarily demonstrate a plenty or paucity of Spirits, as is manifest from the instance given. So that the temperament is no fure fign of the quantity of the Spirits, nor the quantity of the Spirits a fure fign of the temperament; and therfore purpofeth not without just caufe, these things come to be confidered and examined as contradiltingt, if we wil procure a certain and inconfused knowledge of them.

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Fourthly we answer, That although it were granted, that the implanted heat is subjected in the implanted Spirits, yet notwithstanding that heat is not intended nor remitted according to the fole plenty, or paucity of Spirits : for the Spirits how foever lufficiently copious, yet if they be too much fixed, torpid, and as it were frozen; they exhibit not any implanted heat worthy of confideration, As for example, the white of an egge fwelleth with copious Spirits, yet are they lo benummed, and the inward heat is thereupon fo fmall, that it obtaineth not the formation of a chicken, unlefs it be first excited by incubation, or fome fuch other hear ; therefore we may lawfully conclude, that a confideration from the want of Spirits is sufficiently diffinet from the confideration of a cold implanted temperameur, although the objected argument doth feem to infinu-

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ate the contrary. Moreover from this fourth article of our answer, there resulteth a fourth affertion of the effence propounded, Namely,

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That belide the diffemper and want of Spirits a certain benumdnefs of them, must be added as a distinct part allo of the effence of the difease. This benumdness of the engraffed Spirits appeareth chiefly by the defective nutrition, and avertation from exercife, which proceed not primarily (as we have proved above) from any defect of the influx of the brain. It is also manifest from hence, because all those things which drive out that stupefaction of the Spirits, although they do not altogether drive it away, yet they conduce very much to the cure of this difeafe; as exercises of any kind augmented by degrees, frictions, anoyntings, &c. and things inwardly taken, of a heating, cutting, purging, and gently opening quality. But that this benumdness is fufficiently diffinct from the want of Spirits (befides that which we have faid in the 3.article of our Anfwer is fufficiently manifest from hence, because an exceffive excitation, contrary to a benummednes is often conjoyned with a penury of Spirits :as it commonly falleth out in a Heflick feaver, in diffolving fluxes, and the like difeales, in which howfoever there be a want of Spirits, yet no benummednels is confociated; but on the contrary that vehement excitation,&propenfity to motion, must be restrained.

On the contrary, copious Spirits may confift with a benummednefs, as in wheat or meal. For although it may feem to have but little Spirit, becaufe the Spirits of it do yet lurk in their fixation, and benummednefs; yet indeed the Spirits do abound in it, and may be fummoned out by a fimple fermentation, and excited to a manifestation of their adivi-

(45) ty: As ftrong Beer made thereof doth plainly declare. In like manner juice newly preffed out of immature grapes, is very mild and pleafant, containing in the mean time plenty of Spirits, which afterwards the due fermentation being finished, reveal themfelves in generous wine.

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Let us conclude therefore that the benummednels of the Spirits in this affect deferveth a particular and diffinct confideration.

CHAP. VI.

Of the Part first affected in this Disease.

E have already propounded the first Effence of this Difease, it remaineth 22 now that we enquire after the first Subject in which that Effence is radicated.

The heart and the brain do here feem rightly to be excluded, for the reasons before is illeadged, the repetition whereof for brevity fake we thal omit.

The liver and the Lungs are not as yet exemped from all suspition of this fault, we wil therfore examine these bowels apart, and first we demand, Whether the Liver be the subject of the first effence of bis Di eale?

The principal Argument is for the Affirmative, pecause this Disease may seem to proceed from a vicious languification, the Shop and Work house vhereof (at least in probability) the Liver is fuppoled to be, but that a viciated fanguification is the firft

first origine of this difease seems to be made manifest by many figns. First, because this difeafe for the most part followeth after many other great difeafes, either acute or chronical, which ingreat measure have beforehand weakned the fanguifical vertue of the Liver. Secondly, Becaufe this difease doth not only depend upon outward, but inward caules, namely the vicious humors. And feing the vicious humors are generated in and with the mas of blood in the liver, the first effence of this affect seemeth to be referred hither. Thirdly, The Liver is perpetually observed to be bigger than ordinary in this affect; which manifeftly witneffeth the Liver to be affected. Fourthly, those internal Medicines which have a faculty to putrifie the blood are requisite to the cure of this diseate. and being exhibited are found to be very profitable. 5. The miffian of blood from the veins of the ears (which is not the meaneft help to vanquish this affect) doth more than fufficiently argue fome fault to be in the blood, which feemeth to be afcribed to the conftitution of the Liver, in as much as it doth fanguificate. ThefeArguments have fo far prevailed upon fome very famous Phyfitians, that thereupon they have attributed the first effence of this difeafe to the Liver alone.

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But we conceive that thefe things may be fufficiently anfwered, if we fhall firft grant what can be further or what hath already been rightly faid concerning this matter, and then diffolve those things which are inferred by bad and invalid confequence.

First, Therefore we grant that the mas of blood is viciated in this affect, and that from thence is conveied a continual suppeditation to the difease.

(47) We grant allo for the present that the Liver is the Officin of fanguification : but we deny that every viciofity of the blood doth depend upon the viciated fanguification conftitution of the Liver. For firft, the blood may be corrupted by unwholiom aliment, the Liver in the mean time remaining found, in like manner if the first concoction in the ventricle by any caufe what foever be rendred imperfect; yet it cannot be fully corrected by the fecond concoction in the Liver be that bowel never fo found. Befides, although the generation of vicious blood fhould be folely afcribed to the Liver, yet the other parts fhould neceffarily concur to the confervation of that which is generated, as the Kidneyes, the Spleen, the Pancreas, the Womb &c. yea, and it seemeth undeniable, that all the parts which the blood washeth in his circulation, do variously alter it, whilft according to the capacity of the fubject they imprint their qualities in it : for they are natural agents, and act by necessity and continually without any fuspention of their actions or intervenient paules, unless they be estrained by some predominant power: therfore if these be il affected, they give a greater or a less tincture of pollution, to the blood which passes through them, as may be seen in a contagion gotten by an external contact communicated to the inward parts. Moreover, sometimes a great pollution from the other diseased parts is infinuated into the blood, the liver in the interim being fafe, as hath been sometimes observed in opened bodies, that have perished by a Dropfie, in whom the Liver was found to be fufficiently found and whol. Moreover, We grant that the faults of the Blood

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do frequently derive their beginning from the depravedness of their languifical constitution of the Liver Liver, and that that depraved conflitution is an affect of the Li er. But we deny this to be the same Disease whereot we now tieat, because it differs from it in the whol Species. For that fame depraved conftitution of the Liver is alike common to men of full age, to Boys, and Children; but this difeate is folely apropriated to boys and infants. Again, We grant that a vicious conffitution of the Liver may by generating a corrupt blood be a common cauf, and fomen: the augmentation of this affect : but we deny that to be the difeale it felt, whereof we now ipeak, or any part of the first efsence thereof. For it is one thing to produce a common cause of a difease, and another thing to be of the first effence of a disease. We deny also that to be the continent cause of this disease, or to be a sufficient cause of it self alone, or to be alwaies a cause. For the vicious constitution of the Liver, of what kind soever you will suppose it, doth not produce this affect in those that are come to ripenes of yeers, nor perhaps always in yong boys : and this our answer in general to the argument : we proceed now in a like method to the confirmation of it.

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First, Therefore we grant that this affect doth often follow other difeales be they either acute or chronical, but not lo much becaufe they had hurt the fanguiffical conflictation of the Liver, as becaufe they had left the outward parts cold and benummed the ingrafied Spirits exhausted. Although we may eafily admit the viciated liver to be able to foment the evil by reason of the depraved fanguification.

Secondly, We grant that this affect doth not only depend upon outward caules, but also upon inward, namely the faults of the blood it felf; but that

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that all these faults have their beginning from the Liver, that we flatly deny for the Reasons before alleadged.

Thirdly, We grant that the mole or fubftance of the Liver is augmented in this affect, but we deny that to be the first effence of the Difease, for the reasons above rehearsed, where we reject the organical vices from the primary effence of this evil. Yet we admit this and the like difeases in a secondary effence of this affect, as we shal see hereafter.

Fourthly, We grant that internal Medicines can both alter and purify the blood, but in the prefent Affect they conduce to the cure, in this regard, principally, because they facilitate the distribution of the blood to the outward members, attenuating the thicker and cutting the viscous parts thereof, and because they also do impregnate the blood, with a copious and benign Spirit, whereupon it happens, that the implanted Spirits of the parts before languishing, are cherished, augmented, and excited. In the mean time we acknow-. ledge that general benefit which accrew to the whole body, by the purging of the blood, by fiedge, vomit, urine, or any other ways of evacuation. Only this is it which we affirm, that the more specifical part of the cure is wrought by way of alteration with the medicines aforefaid, as we have intimated already.

Fifthly, and lastly, We grant that the opening the veins in the ears doth fomewhat attenuate the blood, and conduce to the renovation of it, as alfo to the distribution of it to the external parts, and the withdrawing of it from the internal parts oppressed with too much plen_ ty, and in that respect very much to advance the cure yet we deny that it can from thence be rightly inferred that the first Essence of the disease is radicated in the F Liver. And thus we suppose we have fatisfied the reafons brought for the confirmation of this opinion. We wil now produce some arguments that seem to perswade the contrary.

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The first is this, The first Effence of a disease doth Specificate the Disease. But the vitiated fanguifical conflitution (however it be conceived) doth not specificate this Disease. For seing that this Disease doth appertain to infants only and children ; it behoveth them who adhere to the contrary opinion to design some certain way of the deprayed fanguifical Constitution of the Liver, which may be proper to the tender age alone, but no depravation of the fanguifical Constitution of the Liver can be imagined, which is not also common to those of ripe years. If therefore the first Effence of this Disease should consist in that, this Disease would at least fometimes be observed in those of ripe years, which notwithstanding hath never been hitberto observed.

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Secondly, The fubject of the first effence of a Difeafe is fo long affected with that Effence, as the Difeaf continueth. For neither can the Difeaf Exist without its Effence, neither can that Effence wander from one part to another : If therefore the Liver be the subject of the first Effence of this Difeaf, then should it be affected thorowout the whole progress of the Difeaf; which nevertheless doth not seem credible, seeing that the Livers of those who have died of this Diseaf, and have been diffiefted, have excepting the augmented bulk thereof, been feen inculpable in respect of the other conditions.

Thirdly, If the Liver be the subject of the first Effence of this Diseas, necessarily it is, that upon the dayly increase of the Disease that should be more grievously and evidently afflicted, and before death certainly it should be marked by some manifest signs. For seeing that

that every Discale is contrary to the nature of that part it befiegeth, and doth dayly more and more damnify and empair it : And although the beginnings of Difeafes are many times obscure, yet in process of time (especially if they continue till the last day of life) they imprint most evident marks in the parts primarily affected ; fo that it can fcarce be avoyded, but that upon the opening of the body they will be apparent to the first fight : although also when an enquiry is appointed into some Chronical Difeaf, by diffection of the body that perifhed by it, the finding of it out be grown difficult by resfon of some other intervenient Diseases, or otherwise complicated : Yet the part first affected is ever observed to be grievoufly and manifeftly hurt. Seing therefore in those whom this Diseas hath destroyed, the Liver is oftentimes found, excepting the augmented bulk, or at least not confiderably hurt, it will be to infer, that that bowel is not the subject of the first Essence of this Difeaf.

Fourthly, If the liver were the fubject of the first effence of this difeale, it should labor under a cold and moift diftemper, and also under a penury and benummedness of spirits, as is sufficiently manifest from what hath already been spokent. But in this present affect the liver doth not always labor under a cold diftemper, nor with a penury and stupes faction of spirits. For in this affect the vital blood being sparingly distributed to the outward members, it must needs be superabundantly poured upon the bowels, especially the brain and the liver; and seeing this blood, which is circulated thorow the bowels to neer the heart, is made very hot and ful of spirit : as even now issuing out of the fountain of the vital spirits, it is impossible that it should permit a cold F_2

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distemper, or any defect of spirits to be in those parts, which it watereth with so copious an afflux.

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Fifthly, In this affect we often behold the face to be wel coloured, & the cheeks ruddy, which can fcarce happen in a cold diftemper of the liver if it be of any continuance.

Sixthly, From a bad habit of breeding blood in the liver; a fufficient reason cannot be rendred of the fymptoms proper to this affect, a *Catotrophy* indeed, or a vitious nourifhment, and an *Atrophy*, or a defective nourifhment : nay many times and peradventure not unjuftly be ascribed to the fault of the liver : but an *Alogotrophy*, or a disproportional nourifhment cannot immediately be referred to that bowel. For the liver maketh the blood equally and without difference, for al the parts; neither is it liberal to our part in the dispensation of it, and referved to another. Moreover the debility of all the muscles, the diflike of exercise, the affectation of reft, seemeth to have no correspondence with the Liver, wherefore neither do we acknowledge the Liver to be the firft seat of this diseafe.

Seventhly, This difeafe in ftrong children is cured fometimes, only by exercife, play, ftirring, and ru bbing of the body ; by which means the heat is fummoned to the outward parts, new fpirits are raifed up, the ftupefaction of them is chated away, and the aliment is with a more plentiful benignity drawn to the outward members, which benefits without doubt are more properly accommodated to the outward parts then to the Liver.

And this queftion being thus folved, we proceed to the other; namely,

whether the Lungs be the subject of the first Essence of. this disease?

The fymptoms which seem to perswade the affirmative, are the frequent narrownels of the breast, the difficul-

(53) ficulty of breathing, an astma, a cough, the inflamation of the Lungs, the hard fwellings of the Lungs, the impoftume in the Lungs and the Ptifick. First, The narrownels of the break doth not presently arife from the very beginning of the difeaf, & rherfore cannot be attefted to be of the first Essence of this Diseas, in like manner the difficulty of breathing & the aftma do not perpetually accompany this affect, and therefore an indication of the part first affected cannot be borrowed from them. Thirdly, the cough is fometimes prelent, fometimes ablent, and is often times varioufly intended and remitted, til the effence of the difease persisteth in the same state ; which alto happeneth from very many of the aforelaid symp-Fourthly, An inflammation of the Lungs doth toms. not frequently moleft the patient, and when it invadeth him, it is an acute and not a chronicle disease ; as this, whereof we now speak, so that we cannot lawfully conclude any certainty of the first affected part from a fymptom fo unufual and fo Fugitive. Fifthly, Hard swellings of the Lungs, little swellings, impoftumes ; yea, and bunches may precede, affociate, and follow after this affect, but these difeases are altogether of a different kind from that we now speak of ; yea, and are common as well to men of ripe years as to children, and infants : moreover the Ptylick doth not usually fuperveen unless after a long continuance of this affect, as being far from the first Essence of this Diseal; and that it may manifeftly appear to be very remote from the first esteem of it, so that can confer little or nothing to the finding out of the part affected. Moreover, those infeparable and vulgar symptoms of this Diseas, as the impotency of the external parts to motion, and the inequality of nutrition, can by no reason be deduced from the affected Lungs ; and therefore we cannot admit this bowel

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Bowel for the first seat of this Diseal. And thus at length we descend to point out the parts first affected.

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The special marrow isluing out of the skull doth feem to deferve the first place : The fecond, all the Nerves produced by it; the third all the membranous and fibrous parts unto which those Nerves are carried along. And in these parts we affirm the first effence of of this difeaf to be rooted, neither do we think it needful to joyn other parts with thefe. For the foftnefs, loofnels, and Atony of the whol Spine without the Skul, of all the Nerves arising from thence, of all the Fibers of the Universal Body, and by that means anmability to motion, a flothfulnels and affectation of reft, which bewray themfelves from the very beginning of this affect, do abundantly evince these parts to be affected with coldness, defect and benummedness of Spirits, and from hence it comes to pais that they are extenuated and afflicted with an incompetency of nourifhment. For they do fomewhat communicate their benummedness to the tops of the Arteries, whereupon the Flux of blood that is destributed unto them, fuffers diminution; and because they are cold and labor under a defect of Spirits, they imperfectly concoct the affuled blood, fo that there is a neceffity that they must be unduly nourished and less than the other parts, and by confequence be extenuated. Therefore we justly and defervedly ascribe the first effence of this Diseas to those parts alone.

Yet it may be here doubted whether the bones may not allo be numbred among the parts first affected, seing that certain tumors of the bones may be observed presently after the first invasion of the Diseas in diversplaces, but especially in the appendancies of the Bones to the Wrest's and tops of the Ribs, where they are conjoyned

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joyned with the grizles of the Stern ?

We answer, That indeed it cannot be denied, but that the faid tumors of the bones, both in respect of the encreafed greatnels; and also by reafon of the viciated figure are really and truly Difcafes, and therefore we grant that the bones must be referred to the primary or secondary effence of the Diseas: but that they do not pertain to the primary effence of the Difease is manifest from hence, Because the faid tumors of the bones depend upon the first effence of this Difeal, and suppose the preexistence of it. For they spring from the unequal nourishment of the parts which is a Symptom of the first effence of this Diseas. But here the inequality of the nourishment can depend upon the first effence of this Difeaf shall more fully be declared in its due place; namely, where the reason of the secondary effence is to be rendred. We will only here flew that those fwellings of the bones are rightly deduced from the improportionate nourishment, to wit when in respect of the reft it is too much augmented in the fwelling parts. That is proved by this argument, Because the protuberant part of the bones are altogether of the fame Species with the other parts of the bones; whereupon it is necefiary, that they come out by the fame way of generation, by which the reft are augmented and encreaf. Therefore feeing that the other bones are augmented by nutrition, that is, by the introlumed aliment, and the affimilation of it, certainly we mult judg that thele bones also acquire their augmentation by the like reafon (although without reason, measure and proportion) You will fay, That tumors are usually generated not of an alimentory or good, but a corrupt and vicious juyce. True it is indeed that this is for the most part true, but as true it is that it is only for the most part true. ror ome

fome tumors fwell from a legitimate and alimentary juyce, as caruncles or little pieces of flefh, knobbed fwellings, and perhaps fome hard bunches, but even thefe fwellings do alfo differ much from the prefent ftanding out of the bones. For those tumors which we use to call excressences, have fomewhat in them without the habit of the part and in the whol kind befide nature : but these tumors do not grow without the habit of the part, neither do they include or contain any other preternatural thing beside the fole magnitude difproportionately encreased, and by that means the viciated figure of the parts. For otherwise these fwellings schould not be of the fame Species with the rest of the Bone, to which they are continued, but that is repugnant to the experience of the fences.

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If therefore it be granted that some tumors (even among those which are altogether preternatural and confift without the habit of their body) are generated of alimentary juyces, certainly much lefs hard is it to be understood that these swellings of the bones are generated and formed of the legitimate matter of the bones, by the inherent nutritive faculty. And this is clearly confirmed by this, because the bones according to their fimilary nature are by no means legitimately produced by an illegitimate matter, that is, an indifpoled and difagreable matter to the other fimilary bones. Ex quolibet. Tieno non fit Mercurius, Every natural agent disposeth the matter before it can introduce the form. It is neceffary alfo that the matter fo disposed be legitimate. Now the matter of the fwelling bones is manifeltly disposed ; for otherwise it could not actually receive the specifical form of a bone. Moreover that these rumors of the bones are generated by the nutritive faculty is likewife evident, becauf in all our body there is not

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not any other offifical vertue befides that nutritive Faculty inherent in the bones themfelves, becaufe alfo thefe tumors are generated and augmented by the introfumed aliment, and affimilated by the bones themfelvs: although perhaps in respect of the whole Bone this reception of the aliment may be unequal, and a fufficient caufe of error in the nutritive faculty, whereby one part of those Bones may be too sparingly nourished, and another part too plentifully even to a tumor.

CHAP. VII.

Of the Secondary Esfence of this Diseas.

A: . He first and Radical Effence of this Difeal, T 3 and also the parts first affected being explai-ned, now in the next place the Secondary Ef-* * fence; namely that which immediatly followeth this Diseal, offereth it self to our examination. And here we must refresh the memory by an intimation of that threefold Constitution already afferted, the Natural, the Vital, the Animal, and thorow these particular Conftitutions, shall our examination proceed. And first we will confider the Natural Constitution. This as we have taught above confifteth in the Temperament, common qualites, the plenty and disposition of the Natural Spirits, in the Organization, and continuity:now we have already proved, that the first Essence of this affect is radicated in the Temperament, and in the plenty and disposition of the Natural Spirits : but the other Parts parts of this Constitution, to wit, the common qualities, the Organization, and the continuity do yet remain to be examined.

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By Common Qualities we understand in a manner the fame which some others have called the Modos Materia, and others, Qualitates Secundas. Now we cal them Common, because they are not restrained to any one Element or Form 3 but in some fort may expiate and range thorow all the Bodies, and for the most part affect them more or less. Of this sort are density, rarity, confistence, fluidness, tenacity, friability, laxity, tension, (or rather tensity, that the stabit may be distinguished from the action) witheredness, swelling, and stifness, softness, hardness, smoothness, roughness. But it is not our meaning, exactly to reckon up all and each of the Common Qualities, not to profecute those already rehearsed, further then the present occasion shall require.

The Tone or Harmony of the Parts doth feem to refult from fome Common Qualities mutually embraced among themfelves. For the Tone of the Parts properly confifteth in a du tenor and mediocrity between certain opposite Common Qualities, as between thickness and thinness, &c. But if there be a recess or departure from the just mediocrity to either of the extreams, then there is a neceffity that the Tone must be vitiated. Two things therefore do here feem to be enquired after concerning the Tone of the Parts ; the first, whether in this Difeas the Tone of the Parts be in any degree vitiated. The next, Whether those faults of the Tone do belong to the fecondary Effence of the Difeas.

As concerning the first, It wil be unnecessary to run thorow the particular Parts of the *Tone* feverally, it will be sufficient to examine those that seem guilty of the suspected crime.

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First, Therefore we meet with an evident loolnels of the Tone in this affect : But this loofneis differeth both from the infirm coherence, and likewife from the Paralytical refolution of the Parts : for the infirm coherence or weakned ftifnels of the part is eafily made an occasion of the looineis, because in fuch cases the Part can fcarce be ftretched forth ; but a part may at the fame time be both loofe, and likewife fufficiently fliff, as may be feen in the ftrings of Instruments, which if you wind down the pins, they become loofe, although in the mean time they forgo not the tenacity of their fubstance. And in diffected bodies we have frequently obferved the loofe parts themselves to be sufficiently ftiffs yea, and that sometimes in this affect. Wherefore this looinels is a diftinct quality from the vitilated flifnels of a Part. Neither doth it less differ from that resolution of the Parts which happeneth in the Paralytical Members. For the dead Pally first confisteth in the depraved Animal Constitution : But this loosnels is rooted in the Natural Constitution. For here is no Pally prefent either in respect of motion, or in respect of the sence of the Parts : Neither is the Brayn in this Dileal primarily affected, as we have already demonstrated. Moreover that there is fuch an exceeding loofnels of the Parts first affected, in this Discal is a thing to conspicucus, that we judg it a superfluous employment to offer proof thereof. For it is obvious to the very fenfes, and therefore we have listed it among the figns of the Diseas. For whether it be a Part of the Effence cr not a Part, if it be manifelly subjected to the Senfes, it acquireth the propriety of a fign in respect of the other Parts of the Effence, which are removed from the Senfes.

Secondly, In this Difeaf there is not only a loofness but likewife a witheredness, and feebleness. Now this quality quality comprehendeth fomwhat more then the meer and fimple loofnels; for it denoteth withal a certain emptinels of the parts, wherby they fink down of themfelves. Now fuch an emptinels, and fuch a falling down of the Parts first affected in this Difeaf are fo obvious to the Senfes, that there is no need of further proof.

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Thirdly, A a foftnels also may be named in the Tone of the Parts first affected in this Difeaf. For fometimes it fo falleth out that there is no coincidence between the foftnels and the aforelaid qualities ; but that it includeth or excludeth fome other thing, as in a fuppurated Tumor there is foftnels, but without any laxity of the Tone, any emptinels or fublidence. For in this prefent fuppoled cafe the foftnels chiefly dependeth upon the manner of Termination, and the tenacity of the Part being vitiated. But in this affect there is for the most part a coincidence with the laxity and flaccidity before mentioned : So that it is needlels to diftinguish it more accurately then by the name only.

Fourthly, There happeneth also another fault in the Tone of the Parts first affected in this Diseal, and this is an extream inward flipperinefs. Some perhaps may wonder what the meaning of these words may be, Internal lubricity. We confels indeed that for want of words we have been constrayned to joyn this appellation. For when in nature fuch a quality as hath a true existence hath by the overfight of Philosophers, and also the neglect of Grammarians wanted a name, we have taken fo much liberty to our felvs, as in respect of the great vicinity which it hath with the superficial subricity of the body to give it the same Name, with the diffinctive Epethite of Internal. In natural bodies therfore we acknowledg a twofold lubricity; one External and Superficial which indeed confifteth in the fmoothne is and equality of the Parts

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Parts of the Superficies, by reason whereof the Subject of it doth eafily flide by other bodies which it lighterh upon without much attrition and refistance, Now contrary to this lubricity, is the Superficial roughness : but these two qualities have no reference to this place, becaufe they are Organical, neither do they any way belong to the Tone of the Parts. That other lubricity whereof we began to make mention, confifts in that internal, profound and fimilary fmoothnefs, and equality. of the body. By reason wherof, the whole substance of its Subject doth eafily flide by the other introfubient bodies without much attrition and refiftance. And to this lubricity also there is an Internal roughness. Now that there is fuch an internal fimilary flipperinefs, and fuch a roughnels also opposite unto it may be shewed almost by innumerable inftances. For almost all mucilaginous fub-Itances are flippery, and that not only in respect of the outward Superficies, but also inwardly, and in respect of the universal Substance, and every particle thereof; fo that, according to the definition of a fimilary body, every particle, by reason of this quality is made li ke unto the whol, and therfore this quality is internal, and fimilary, and diffused through the whol internal substance of the Subject. In like manner fuch an internal roughness may be observed in unripe fruits, extentended thorow their whole substance and Internal flesh. But when they have attained to a just ripenels then ufually, in the room of that roughnels there succeedeth such a flipperiness as we have now described. And here it must be observed, that if these bodies internally flippery be befmeared or daubed upon the Superficies of bodies otherwife rough, they bequeath a certain degree of lubricity to them, for the time they adhere ; in like manner being inwardly taken as the flippery

pery juyces, and mucilages of Althea, &c. They do communicate a certain lubricity to the Internal passages of the Body; yea, and not only to the passages that relate to the inward cavities, but also more or less to the very Similary substance of the parts of the Body, which also the blood washeth being impregnated with that flippery juyce.

But this internal lubricity is manifold : oyly or fat, watrish, spiritous, saltish, and perhaps earthy. The oyly is chiefly confpicuous in the fat of Creatures, especially fuch as are yong, and in many expressed Oyls, efpecially the moifter and colder, and also the temperate; as may be observed in the Oyls of Poppy Seeds, Pippin Seeds, the four greater Cold Seeds, Time Seed, and the Oyl of fweet Almonds, and the like. A watrifh lubricity is in some measure found in simple water it felf, although by reason of the fluidness it is less sensible; also this lubricity may most evidently be taken notice of in the mucilages, &c. The Spiritous perhaps doth never happen alone, but it is most frequently mixt with the waterifh, as in the fperm of almost all Creatures, and ripe fruits. The Saltish likewife is rarely simple, although there is a man that contendeth it is to be found in falt of Tartar. But the compound faltish lubricity is frequently obvious, as in Soap and Salt of Tartar diffolved with waterish and oyly substances. The Earthy (even mixt) is scarce worthy of obfervation, unless it be in respect that it concurreth to the thickning of fluid bodies, as in white clayish Mud, and Fullers Earth diffolved. But in this place we have regard chiefly to that lubricity which is waterifh, as being that alone which can be guilty of the crime in this affect we now handle,

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nal or fimilary lubricity. The next enquiring must be whether the first affected parts of this Difeaf be affected beyond a due proportion with an internel or fimilary lubricity. And at first indeed it seemeth very probable that there is fuch an extream lubricity in the faid parts, -becaus moisture doth superabound in them, which ever favoreth the faid lubricity, be it conjoyned either with heat or cold. Every one knoweth that the Sperm of Creatures by how much it is moilter than the creatures produced by it, by fo much alfo it is the more flippery : in like manner that the yong flesh of Creatures is more flippery than that of old. Seeing therefore that humidity and lubricity of this kind are fo inwardly converted : Seing also that in the parts first affected there is manifestly an extream humidity, certainly it may eafily be granted that a lubricity likewife doth too much abound in the faid parts. And to the production of this the benummednels of those parts have no small share. For the Spirits when they are in their exaltation contract a kind of acrimony and sharpness, as may be seen by comparing Must with old Wine, or with Spirit of Wine or with Aqua vite. For the Spirits of Must may truly be faid to be benummed or stupified, if they be compared with the Spirits of old Wine ; and by how much more they are itupified, fo much more lubricity they likewife contain, and also fo much the lefs of fharpnels and acrimony. From whence it is manifest that that benummedness and dulness in the Spirits lodging. in the first affected parts doth favor that extrem lubriciw; for that dulnels of the Spirits in the faid parts is almost of the same degree with the dulness of the Spirits in Must. And becauf the Spirits are defective in the parts first affected, it is evident that this lubricity is an over-watrich lubricity. Moreover, laxity, flaccidity, and

and softness do also seem to conspire. For unripe fruit as they are hard, fo till they wax ripe they grow fofter and fofter, and withal acquire an internal lubricity; in like manner the parts are loofned by relaxant baths, and together they become more flippery ; also flippery things taken inwardly, as the mucilage of Althea, &c. Do not only loofen the Parts, but they also make the paffages flippery, for which cafe in the pains of the ftone they are drank with good juyces. Again, this lubricity of the first affected parts, seemeth to be much confirmed by this, because in the diffected Bodies a manifest lubricity is observable by the touch ; and if they be squeezed a mucilaginous kind of blood, inwardly befmearing them, is crushed out with the fingers. We fay nothing of the skin, which for the most part is flippery in this affect, and is feldom felt to be rough to the touch : but it is worthy to be noted, that extream flippery Medicines either outwardly applyed, or inwardly taken, do ufually more hurt then good in this Difeas. And thus we abfolve the former queftion, of the manner whereby the Tone of the Parts is vitiated in this Affect. The cther now presents it self to our confideration.

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whether the Tone vitiated after that manner as hath been (aid, be a Part of the Ssence of this Diseas?

We suppose here that whatsoever is found to be vitiated in the Body, is either a morbifical cause, or a Symptom, or the Diseaf it felf; and therfore this Diseaf either simple or compound, or any part of a compound; and that either primary or secondary.

We fay first, That the vitiated *Tone* above propounded is not properly a cause of the Diseas. And this f carce need any proof. For the faid *Tone* is a preternatural Constitution, rooted in the Parts themselves, and by that reason it is most evidently diffinguished from a morbimorbifical caufe properly fo called. For although, one Difeaf may be the caufe of another, neverthelefs even then it is not properly called a morbifical caufe, but a primary Difeaf, and that other which it produceth, a a fecondary affect. But every where there is a growing together of them both into one total Difeaf, the former wil be the primary Part of the Effence, and the latter the fecondary part of the Effence.

Secondly, We affirm, that the described Tone of the Parts is not a meer Symptom, for it is not under the things secured and retained, neither can it be comprehended under any depraved action, or any changed quality, not vitiating the action. But that the vitiated Tone is not comprehended under the things fecured and retained, nor under any depraved action, may by the fame labor be proved by this Reason, because those kind of Symptoms are not indeed Conftitutions of the body;but the faid vitiated Tone without controverly is a preternatural changed conftitution, as we have already most playnly demonstrated. Secondly, That the faid Tone vitiated after that manner, is not contained under any changed quality, not depraving the action, is so clear and evident, that it needs no proof. For laxity and flaccidity hurteth the motion of the Parts, and an extream lubricity is an impediment to the du quickning of the vital Spirits, as thal hereafter be made manifett.

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It may be Objected, That some bare changed qualities which are comprehended under the Genus of Symptoms, may also vitiate an action : as the colour changed in the skin yeeldeth an unpleasant prospect to the beholder, so that it begetteth deformity and defect of du comlines?

We answer, That the changed colour of the Skin in as much as it vitiateth the beauty therof (which is the proper action of the Skin) doth in rigor (in a large

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acception) fall under the Notion of a Difeaf. But feing this action of the Skin is only Objecture and Ad extra, and feing that altered color doth hurt no Internal action of that individual : Phylitians, who'in the definition of a Difeaf, have respect only to the Internal actions of that individual, do usually exclude it from the Classis of Diseases. Or if the vitiated color of a part do chance in some place to deprave an internal action (which is known only to happen in the Tunicle of the Eye, called Corura) the best Physitians do ever reckon it for a Difeaf, although perhaps fecondarily. But that we may return into the way from whence we have a little erred : feing that the vitiated Tone may hurt, as we have faid, the internal actions, it doth not properly belong to that kind of Symptom, which is wont to be called by the name of a changed quality.

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Thirdly we fay, That this vitiated Tone, feing it is neither a Morbifical cauf, nor a Symptom, and yet is somthing preternatural, must needs be the Diseas it felf. Moreover, the fame is clearly proved by the very definition of a Discal. For this vitiated Tone is a preternatural Conftitution, primarily or immediatly hurting the internal action; therfore it is a Diseaf. For to what the definition is competible, to that also the thing defined is competible. That it is a preternatural Constitution is manifest by this, because it is inherent in the folid parts of the body : that it likewife depraveth the Internal actions, is manifest from hence, because an extream laxity, lubricity, and flaccidity of the parts being granted, prefently the agility is weakned, no other caufe approaching, and a certain fluggifhnels deadeth the irritation of the vital Spirits. In agility, the matter is plain, feing that firm and ftretched bodies, other things being answerable are more active, and so on the contrary :

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trary : that the same thing also happeneth in the dulness of the irritation shal be shewed in its place, for the present we labor to prove no other thing then that the vitiated Tone in this affect is a Diseas.

We fay fourthly, That this vitiated Tone in this Difeaf is not any fimple affect, having an existence apart by it felf, but that it is so conjoyned and compounded in those fame parts with the primary Effence, that the whole Effence of the Diseaf (wherof we dispute) may be faid to confist of many Diseases united together (in themselvs indeed simple, if they be confidered as and therefore that the vitiated Tone is only a part of the whol Diseas. And this needeth no other proof, then becaule the first Effence proposed above, and the faid vitiated Tone are both found in those same parts. For that is properly called a compound Diseas, which is produced by many simple Diseases conjoyned in the same Part.

Fifthly, We affirm that the vitiated Tone is not only a part of the whole Effence, but fuch a part as hath fome dependance upon the primary Effence, and therfore that it is a fecondary part of the Effence.

Before we proceed to the proof of this Propolition two grants or concessions are to be premiled.

We grant first, That the faid *Tone* may be even immediatly vitiated in other causes perhaps, and likewise by other causes, although that happen not in this prefent Diseas. For the inherent *Tone* of the Parts may be primarily loofned in the Animal Constitution, and that suddenly, as may be observed in the *dead Palsy*. For the natural tensity (and not the Animal only) of the *Paralytical* member is loofned, and indeed fuddenly without any conspicuous intervention of any part of the aforesaid primary Effence. After the same manner in a Lipsthymy

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or defection of the mind, loofness and languishing fuddenly attarcheth al the parts. Now we cannot in either of these two causes refer the cause of the loosness to the cold and moist distemper of the natural Constitution, feeing that cannot be fo fuddenly and fo fenfibly changed. Which let them confider (that we may give warning of it by the way) who wil have these common qualities to be always second and dependent upon the first alone : yea, on the other fide let them in that caufe observe how a cold and moist distemper doth afterwards by degree, follow that loofnefs fuddenly introduced. Again, as for the flaccidity of the parts that may be immediatly produced by large evacuations, as a flux of the belly, fweatings, and the like immoderate vents, the temperament being not yet confiderably changed, although we deny not but this may eafily and doth usually follow. Moreover an internal lubricity may be manifeftly separated from coldness, though very difficultly from moisture.

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Secondly, We grant that in the prefent Difeaf, the vitiated Tone doth not in any manner depend upon the first admitted Effence, nor that in every respect is fubordinate unto it. For first the qualities of the Tone here vitiated, do alfo ow fomwhat to common caules, namely to themfelvs, and alfo to those that are common, to the first granted Effence. For extream moistening things by one and the fame operation are apt to produce both too much moisture, and also loosness. In like manner from violent evacuations, a want of Spirits, and withal a witherednels doth arife. Alfo from things too too flippery, either outwardly administred, or inwardly taraken, or both, an internal lubricity is augmented, together with a moift diftemper. For there is fo great a connexion of the whole Effence, hitherto propounded with

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with the common causes, that there is scarce any thing which doth augment the first effence of the Difeas, but at the same time more or less it hath an influence upon the vitiated Tone.

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These things bring granted, We say norwithstanding that in the present affect there is a very great dependance of the vitiated Tone upon the first Effence of this Discass for which respect alone we have here referred the vitiated Tone to the secondary Effence. If any lift to contend, That the secondary Effence, because he may relate more clearly to the Secondary Effence, because he may imagine that the primary Effence of every Diseas is necessarily formilary and perpetually grounded upon the first qualities alone; or because he may conceive that the qualities wherein the Tone consistent are perpetually secondary, and that they follow the first only (as the shadow doth the Sun) that man may take notice that we purposely decline such questions, least we should straggle into an unwarrantable digression.

It remaineth therefore only that we prove the Dependance of the vitiated *Tone* upon the first Effence of this Difeaf to be very great, and that we shal do by parts. We wil begin at the laxity. We grant indeed that a laxity may be fomtimes fuddenly produced, and in that cause a moyft diffemper may often follow upon it, Nainely, when the laxity primarily dependeth upon the fault either of the Animal or Vital Conflictution ; but in this Difeaf, feing that neither the Animal nor the Vital Conffication are primarily affected, there is a neteflity that it must flow from other causes. Moreover, such is the condition of laxity and tensity, that they are obnoxious to fudden alterations. For the strings of a Lute may almost in a moment be firetched and loofned again; the fame thing likewise from fome causes befalleth the Fi-

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bers of the Parts, But in this affect the laxity stealeth on by degrees and flowly; therfore necessary it is that it must begin, be ruled and moderated by fome cauf leifurely and flowly augmented. Although therfore we granted even now, that the laxity doth own formwhat to the common causes of the Diseal; yet the augmentation therof is chiefly reftrained and moderated by the primary Effence of this Difeaf. For moistning Medicines although they loofen withal, yet they fcarce loosen more than they moisten, becaus for the most part they loolen by moistning. Seing therfore that the common causes of this Diseas do flow into the Tone, chiefly by the Mediation of the first Essence of this Difeaf: And feing that neither the Animal nor the Vital Conftitution can here supply the vertue of a caus, we may Lawfully infer that the laxity of the Tone doth chiefly depend upon the first Essence of the Diseas. This is further confirmed, there is of it felf a certain pronels and tendency of the Body to be through wet, fo that the fibers of the parts must needs be loofned by it: Moreover, the defect of the Spirits and the flupefaction of them doth caus a remission of the Tone by diminithing the vigor of the part. Therfore we may conclude that the Difeaf, laxity principally dependeth upon the primary Effence of the Difeal. As for the flaccidity because it comprehendeth the laxity, it springeth from the fame caufes as that doth; but in as much as it include: h alfo a fublidence and a certain emptinels, it evidently dependeth upon the defect and benummedness of the inherent Spirits; the plenty and vigor whereof being augmented the lank and flagging member is eafily rendred turgid and swelled. In the interim we deny not but that that sublidence doth withal depend upon the extenuation and atrophy of the parts.

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Lastly, How the flipperiness doth proceed from these causes is sufficiently manifested by what hath been faid above.

That we may at the length put a period to this matter, it may be observed for the higher confirmation of those things already spoken that there is such a strict dependance between the Tone and the first granted Effence, that throughout the whol cure of the Discal they are intended & remitted together almost in equal pace. For at firstthe Children that are afflicted with this affect; do only go flowly &leifurely whilft the Tone of the parts is yet but a little loofned; but in the progress they fcarce and with much ado truft to their feet, then they play only fitting or as thay are carried about. Afterwards they can scarce fit upright; and at the last when the Difeas hath attained the highest exaltation, the feeble neck cannot without much difficulty support the burden of the head ; all which things as they attest the primary Essence of the Diseas to be gradually augmented, so alfo they make it manifest that the vices of the Tone are intended by an equal pace. And fo all thefe things being rightly weighed, we refer the viciated Tone to the fecondary, not the primary Effence of this affect, and by confequence we conclude, indeed the thing that was in queftion, that that depraved Tone is a lecondary part of the Effence of this Dilcal. and the sheart is

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CHAP. VIII.

The Secondary Essence of this Disease in the Vital constitution.

Secondary Effence of this Difeaf which is radicated in the natural conflictution, in as much as it comprehendeth the common qualities; it remaineth now that we examin the organical vices, and the faults of continuity, if any fuch be found out. But feing that no proper faults of continuity do accur in this affect, and feing that the organical vices do depend partly upon the Effence above given, and partly upon the vital conflictution being viciated, it feems neceffary in the next place to fearch into those faults of the vital conflictution. wiby V Profitie a fin in in in it is

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The vital conftitution is aptly diffinguished into the original, or that which maketh an influx, and the participative or that which is produced by that influx.

The subject of the original vital constitution are the Spirits themselvs excited in the blood of the Arteries. You will say, The beart rather seemeth to be the subject of this constitution. But it is not so, for the heart it self through the coronary Arteries receiveth the vital Spirits brought down with the Arterious blood from its left Ventricle. But it is absurd to suppose the wals of the Heart to be the first subject of the vital heat, and in the mean time for those to receive that heat from the Arteries. We must say therfore that the solid substance

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of the heart is indeed the first & principal subject of his natural and inherent conftitution ; but feing that receiveth the Vital Spirits (as hath been faid) it cannot be accounted the first subject of the Vital Constitution, which is imprinted in it by those Spirits, and continueth no longer than the fubitance of the Heart is shedded and befprinkled with the Vital Spirits. For neither can life subsist in any place without the Vital Spirit. Wherfore the substance of the Heart doth so far participat of the Vital conftitution, as it is wash'd and bedew'd with the Vital Spirits, and by Confequence that Conftitution in the substance of the heart is not original or influent, but participative or produced by that influx. This is also confirmed in that, becaus the vital heat of the blood in the hollow Parts, or Ventricls of the Heart (which heat is at least a part of the Vital Constitution) is for greater and more intensiv than that which is within the wals of the Heart, as any man may oblerv by the opening of the Bodyes of living Creatures, the Ventricle of the heart being wounded, and the Finger presently thrust in. For he shall feel a far more augmented heat in the blood, than in the very fubstance of the Ventricle; however it be handled. Moreover the vital Conftitution is a thing transient and confisteth (as the Phylosophers Phras is) in motu & fieri; therfore it is rooted. In the movable and decaying Spirits (fuch as the Vitals which are contained in the Arterious Blood) for som Member being cut off, the Life vanisheth almost in a moment, and by Consequence the vital conftitution : but the natural (as we have already infinuated) continueth (though not in fuch an exaltation as when the Vital remaincth) for a while after death. And indeed the Life and the Vital conftitution is fuddenly taken away in the cafe aforefaid not by any politiv

politive contrary Caule, But by a meer privation of the Confervant and Continent CAUSE. This is most evidently confirmed, because the Vital conftitution is fuddenly intended, remitted and altered in al the parts in respect of the model or measure of the Vital Conftitution, excited in the Ventricles of the Heart, fo in a Lipothymy, the heart fainting, the life of the parts prefently vanisheth, at last languisheth; but affoon as the Ventricles of the heart are refreshed with Spirits by some proper cordial applications, straight way we behold the vital Conftitution to be fuddenly in some measure repaired in all the Parts. In the suppresfion of the breath fudden death followeth the torrent of the vital Blood from the right to the left Ventricle being intercepted. In the opening of a Vein or in any other immoderate profusion of Blood there happeneth a fwouning by the fole defect of the Vital Spirits. Therefore feing the Vital constitution is transient and fugitive in any of the folid parts, and feing it dependeth upon the proportion of the vital spirits flowing into them from the Ventricle of the heart, we may rightly infer that in the folid parts, it is not original but participative. But in the Vital Spirits themselves, by whole function the Vital conftitution is diffused and transmitted into all the Parts, it must necessarily be original : For there is no other original subject of it to be found in the Body.

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Yet we grant that the folid fubftance of the heart by his Natural Conftitution (especially being watred by the Vital) is the affiftant caus of the excitation of the Vital Spirits in the blood included their Ventricles, although it cannot be the first subject of that same Vital Constitution, as we have even now abundantly proved. And these things for the present may suffice in general con-

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Concerning each vital conftitution, the original and the participative, and to prov that that must properly be alcribed to the Vital Spirits, this to the folid Parts as the immediate Subjects of the inherence. Three kind of vices belonging to this Conftitution do stil await our examination: The two former wherof relate to the Original: And the third pertaineth to the participative Constitution. The first vice concerneth the Generation of the Vital Spirits. The fecond hath reference to the distribution of them : And the third appertaineth to the participation of the Vital Constitution. Of these we shal make enquiry in their order.

CHAP. IX.

The vitiated Generation of the Vital Spirits in this Affect, and whether that fault be a Part of that Secondary Essence?

* * He Vital Spirits are first excited or generated * T * within the Ventricles of the Heart; namely, in the very mass of the Blood, and properly they discriminate the Blood in the Arteries, from that in the veyns, after that they are generated they are cheriscand and conferved within the cavities of the Arteries, until they are distributed into the habit of the Parts. Yea, they are not only cherisched in the Arterries, but in them also rightly disposed, perhaps fom new ones are excited, though with less efficacy then in the heart.

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there doth not occur any fault repugnant to the Generation of the Vital Spirits, which properly can be a part, even of the secondary Essence of this Diseas. For the heart it felf, for his doth rightly perform his function in this Difeal : and if any imperfection happen in the Generation of the Vital Spirits, it cannot be properly alcribed to the heart, but to the ineptitude of the matter, to receive the form of the Vital Spirits. As the ingested aliment if it be extreamly crude, it may fruftrate the perfection of a laudable concoction, the Stomach being otherwise found and faultles : So the unapt and unprofitable blood exported to the ventricles of the Heart, may render the action therof imperfect, in respect of the operation and effect, how sound soever it may be in it felf: In which cafe the afcription of the fault is usually and truly attributed to the indisposed matter, and not to the Heart. You wil reply, a Feaver is fomtimes complicated with this affect, and at fuch time the heart doth unaptly Generate the Vital Spirits, But that Feaver is a Difeal of a different kind, and by no means either the whol or any Part of the Effence of this affect.

Secondly, We affirm that the leffer Arteries inferted into the first affected Parts, are in some degree really cooled and benummed by them, through their adjacency and contact, and for that cause they do unaptly conferv the Vital Spirits contained in them, wherupon the Vital Constitution of them is rendred somwhat imperfect, before they can be effused into the Parts themselvs. And this fault of the little Arterics seemeth by very good right to be ascribed to the Generation of the vital Spirits. For although it be not the function of the Arterics to propogate the Vital Spirits according to the first signification of the word; yet for this very reason, that

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that they are obliged to conferv them when they are propagated, namly by fuch a confervation as in a manner includeth a certain continuate Generation of them, their faults are rightly to be referred to the Generation of the Vital Spirits. For the Vital Constitution is a certain transient action (as we have shewed before) which, while it lasteth, is in a continual flux and motion, and which like a flame, when the continual fomentation and reparation of it is suspended and suppressed, fuddenly extinguished. Therfore are the Arteries as a continuate Heart to all the parts of the body, unto which they transmit and powr out their contained Spirits ; and what faults foever of the Spirits happen before the effusion of them into the habit of the Parts, feing that they necessarily belong to the Original Vital Conftitution, and cannot otherwise be ascribed to the diffribution of the Spirits, they must be referred to the wery Generation of them; namely, a continuate Generation in the Arteries, wherby they are continually preferved from a fudden extinction.

Moreover, This fault of the Vital Spirits is the depravation of the Vital and Original Conftitution, and feing that it is formwhat preternatural, first hurting the action, from whence the participative conftitution, floweth in like manner depraved, and feing that it meerly dependeth upon the primary Effence aforefaid and is complicated in the fame parts, it will be a part of the fecondary Effence of this Difeaf.

Thirdly, We fay that the matter of the Vital Spirits, to wit the Blood of the Veins impregnated with his Natural spirits returning in his circulation from the first affected parts towards the Heart, is somwhat difabled by them to admit the form of the Vital Spirit. For it is necessary that the Blood, whilst it passet through

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through the parts affected with a cold diftemper, want and benummedness of inherent Spirits, must also thereupon affected with some kind of frigidity, benummednels, and perhaps with a thicknels and viscous quality beyond the usual degree of Nature. For as the blood doth give a tincture of his qualities to the parts thorow which it glideth; So on the contrary, the parts themselves bequeath also as much as they can of their qualities to the flowing blood. But here likewife we must grant withal that this indisposition in the parts first affected (especially when it is light and smal) in the return to the inward parts, is very much corrected by their heat, before it arifeth at the Ventricles of the heart, nay that it is somtimes subdued or if any such contracted fault remain, it is commonly totally abolished by the length of the journy before the return of the Blood to the left Ventricle of the heart, whilft it floweth down by the right, and the fubftance of the Lungs, the fame thing also may be thus confirmed, becauf if that indisposition should continue till the return of the blood to the left Ventricle of the Heart, the whol mais of blood in the Arteries would become crude and imperfect; and feing that this blood thus abounding with imperfect Vital Spirits should be transmitted from the Aorta to al the Parts, it would more or less affect them al ; which very rarely is observed in this Diseas. For the head, & many bowels, however fom of them are found to be greater then ordinary yet they feem to be watered with a perfect Vital Spirit. But although, as we have faid, the flight indifposition of the Blood may be corrected, before its return to the right ventricle, yet when the contracted fault is great and more confiderable, it cannot be altogether overcome, wherupon the Lungs in this Difeal are commonly afflicted with the most grievous Evil.

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vil. For, when the lefs Spiritous, and therefore the lefs paffable Blood, is continually transmitted thorow the Lungs, cold and thick, or viscous, in process of time it must needs more or less infect and obstruct the weaker parts of the Lungs; from whence proceed difficulty of drawing breath, a stubborn cough, hard tumors, inflammations, impostumes, and the Ptyfick. Feavers also both Erratick and Hectick, may from hence dirive their Origen. But seing that fault may be suddenly introduced from the first affected parts, it is credible (although we have faid the Lungs are often infected by it) that it is for the molt part overcome, before the Blood can com to the left Ventricle. And this may be the reafon why the Head and the adjacent parts do look fo well and flourishing, namely, becaus neither the Natural nor the Vital Constitution is hurt in them, feing that the perfect Vital Spirits generated in the left Ventricle, and distributed from thence, do excite that fresh color in the face ; when on the contrary the Lungs do oftentimes labor under the faults aforefaid, the viciousness of the Blood not being corrected before it enter the right Ventricle and the Arterious vein.

Moreover, This imperfect production of Vital Spirits in the right Ventricle of the Heart, by reafon of the crudenels of the affluent Blood, flowing in the Veins, totally appertaineth to the fecondary Effence of this Difeal, and muft be accounted a part of it : for the Vital Conftitution is vitiated, wherupon the actions in the Lungs are depraved, and it dependeth wholy and in every respect upon the primary granted Effence, neither in the mean time, doth it refide in the folid Subflance of the Heart, that it should therfore deferv the name of a a new difeal.

Here we note by the way, That Phylitians in the cure

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of this affect do ever intermingle fuch things with their remedies as have refpect to the benefit of the Lungs; and not without realon, feing that it is apparent by what hath been faid, to how much danger that Bowel is continually fubject. And this may fuffice concerning the faults in the Generation of the Vital Spirits : Now follow the faults of the diffribution of those Spirits.

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CHAP. X.

The vitiated Distribution of the Vital Spirits in this Affect, and whether it be a Part of the Secondary Effence therof?

*** His vitiated diffribution feemeth to confift in T b three things: Namly, in the Dimunition, Slownefs, and the Inequality of it. The deto fective, and alfo the flow diffribution of the Blood and Spirits, may be feen in fome one Part, and perhaps in all those that are first affected: But the inequality cannot be observed in any one, feing that it refulteth from a collation of a various fwiftnefs and flownefs, greatnefs and finalnefs of the torrent of the Blood in respect of the other parts. The defect and flownefs of the diffribution: feing that they depend almost upon the fame causes in the prefent affect, they may be handled together, and feing those differences are more fimple then the inequality, the handling of them feemeth defervedly and juftly to be premifed.

But first we must grant that the passages and circula-

tion of the Blood, thorow the first affected parts is not very difficult in this affect. For although a cold diftemper, a want and benummedness of Spirits, do seem very difficultly to admit a transition of the Blood thorow the parts affected, with these qualities; yet indeed other conjoyned qualities; as moviture, loofnefs, laxity, flaccidity, foftness, and internal lubricity, can at the least contribute as much power to facilitate the passage of it, as the qualities aforefaid can oppose to the interruption of it. Yea, if you valu them by a just estimation, perhaps they can do more, but we wil not in this place affert it, only we flatly deny the difficulty of the circulation to be greater. For, if we may compare hard bodies with foft, low bodies with straight, moist with dry, flippery with rough, we shal easily perceiv that the circulation of the blood is much more quick and expedite in those, then in these. And this is manifest in young Creatures in whom those gualities abound, in such as are new born, although the Heart be very tender, the Arteries less firm, the pufificative vertu, yet feeble and weak, yet the paffing too and fro of the blood are readily and eafily exercifed; which in those that are older is not accomplished without a stronger pulse, and an indeavor or a kind of labor of the Heart and Arteries. Again, according to the opinion of Galen and Hippocrates, the Bodies of children are most passible; namly, by reason of their humidity, laxity, and formels. Belides, if we observ the formation of the chicken in the eg, the matter wil be yet more plain. Within few days after the incubation the Heart of the chicken is fenfibly and evidently feen to beat, and to begin the circulation of the Blood : but if at the fame time we confider the frailty of the Heart it felf, and how weak a coherence there is between the parts of it, til in the interim it finisheth the circulation of the blood according н

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cording to the manner of it, fuch as it is : we must neceffarily grant that in that fhapelefs lump, moifture, and internal lubricity do expediate and facilitate that motion. Some perhaps may object that in these cited cafes the liberty and readiness of the circulation of the blood, depends not so much upon the moisture, softneis and flipperinefs, as upon the plenty of the inherent Natural Spirits. For in the Cachexia, Green ficknels, and the dropfy, the flesh is very fost, moist; and perhaps flippery, when in the mean time the transition of the Blood is very difficult. We answer, those Bodies that wax tender and foft by a paucity of inherent Spirits, are lefs indisposed, and more apt to admit the circulation of the Blood then the other parts. But it is not fimply tru that fuch bodies which most abound with Spirits do perpetually obtain the most expedite and unrestrained circulation of the Blood : for the Blood is more eafily circulated in Fish, then in Creatures of the Land, as is manifest by the tender and frail Constitution of their Heart, and Arteries 3 yet they enjoy a lefs quantity of Inherent Spirits. But because they live perpetually in the waters, therfore is their flesh more moist and flippery. Whence it most evidently appeareth how effectual the inward lubricity and moilture are to facilitate the passage of the Blood. As for those that are invaded with the Green fickness or afflicted with a Cachexia, we grant indeed that the circulation of the Blood is difficult in them, yet not only through a defect of inherent Spirits, but by reason of itubborn obstructions lodging in the whol body. Wherefore it must be granted, notwithstanding the cold diftemper, the penury, and stupefaction of the Spirits, which procure a difficulty to the circulation, that fuch a Mediocrity is imposed upon it, by the moilture, foftnels, and internal flipperinels, that the paffage of the blood

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Blood may be reduced to a just, if not an extream facility. But if the moisture, softness, and inward flipperinels be lo confiderable to effectuate an ealie circulation of the Blood, Truly, the distribution of it through the parts first affected seemeth to be expected more fwift and not more flow. We answer that the facility of the transition of the Blood is opposed to the flowness of the motion, or to the imalnels of the passage. For a fwift motion may be flow, and in a smal Channel. But the facility is here opposed to difficulty, ftriving, and labor, which in this cafe, if the circulation were difficult, should happen to the Artery in the passage of the Blood. But that the Arteries do undergo fome labor in expediting the circulation of the Blood into the first affected parts, shall anon be demonstrated ; we only affirm in this place that the facility, of the passage of the Blood doth not sufficiently argue either the fwiftnels of the motion, nor the widnels of the passage. For, two causes do chiefly conspire to haften the course of the Blood through the habit of the parts. One is the aptitude of the part recipient, or that through which the blood ought to flow ; and this cause is meerly paffive and flothful : the other is the impulsion of the Heart and Artery, and allo of the Arterious Blood contending to ftretch and dilate it felf. This caufe is active and full of vivacity. For upon the ceffation of this impulsion, the distribution of the Blood will presently after totally cease, however the passage may be otherwise supposed to be most easie, manifest therfore it is that this impulsion is the principal & active caule of the fwiftnes and flownes, and also of the quantity of the distribution of the Blood. Wherfore those causes which do any way advance or hinder this impulsion, do now come to undergo a more accurate examination. H 2 POL

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For by these we shall know whether the destribution of the Blood in the parts first affected, be really more sparing or flow than is meet.

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These causes do chiefly concur to excite that impulsion. First, the plenty and activity of the Vital spirits contained in the Blood. Secondly, the perfect foundnels of the Heart. Thirdly, The firmitude, heat, and just magnitude of the Arteries. Fourthly, An irritation both of the Heart and Arteries, whether extriniecally or intrinfecally caufed. These we will run over in their order, that it may appear in what condition they are in this present Diseas. First, As for the plenty and activity of the Vital Spirits, we have already shewed that in this affect the imperfect Vital Spirits are frequently excited in the right Ventricle of the Heart. Seing therefore that the Blood tainted with these imperfect Spirits, must be driven into the Lungs, there is a neceffity the deftribution must there become more sparing and flow by reason of the defect of the Spirits. Again, fecing that the vital blood, as we have also shewed above, is somwhat cooled in the Arteries, which are terminated in the first affected parts, it is neceflary likewife that the paflage of it through the faid parts must be diminished and more dull.

Sccondly, The vertue of the Heart, unlefs peradventure by accident through the complication of fome other Difeaf, is feldom feen to be viciated in this affect.

Thirdly, For fo much as concerneth the Arteries, we cannot accufe their condition of any notable defect in reference to their ftrength. But there is a manifelt fault both in their heat and magnitude. First, in their heat, the Arteries inferted into the first affected parts, must neceffarily by their cold diffemper be fomwhat affected with the like diffemper. For feing that a diffem-

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per of the parts first a ffected is active and permanent, it is unavoidable but they must more or less introduce a like quality into the parts fo neerly bordering to one another, For natural agents are bufily industrious to affimilate all Bodies placed within the Sphear of their activity, but especially such as are circumambient and neerly adjacent. But if any man doubt whether that coldness of the Arteries can retard and lessen the current of the Blood through the first affected parts, let him confider that frigidity is of it felf an enemy to any kind of motion. For it is the quality of cold by its own Nature to arrest Violences, and impetuous oppofitions, to condenfate, to induce floth, to superinduce Somnolency, flupefaction, and immobility, and when it attaineth a more intensive degree, to congeal and mortifie the parts. Therfore it must needs cast a Remora to the torrent or the Blood waving through the parts affected with that quality. Befides, In the opening of a Vein we have often observed upon the cooling of the member that the Blood hath flowed more flowly and sparingly, and if the member be warmed again, or the pulse be excited by rubbing or any other motion or means, that then the Blood floweth again with a more plentiful and liberal current. Moreover, the application of cold things is fenfibly effectual to ftop Blood preternaturally burfting out of any part, as on the contrary, hot things do provoke the ebullition of it.

It may be objected, That the Pulfe is many times astuated and intended by the cold outwardly opposed; as by the handling and playing with fnow, we see that not only the Pulse but the heat also is augmented in the hands of those that sport themselves with it.

We answer, Cold things of themselves do alwaies move the passage of the Blood through the habit of the

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parts ; but that by accident they may intend the circulation of the Blood, if at length they provoke the pulles of the Arteries (as in the faid cafe of the fnow it happneth) to beat ftronger marches. But this never comes to pals in this prefent affect. For (as we have already shewed) the circulation of the Blood in this Diseal, however it may fuffer Immunitior or Retardation, yet it continueth fufficiently eafy and expedite, neither doth any irritation of the pull arife from thence, as anon we shal perceiv more plainly. For feing it is manifest by what hath been faid, that the Arteries reaching to the first affected parts, become more cold then ordinary, or is meet, we may eafily beleev that they become likewife more flender ; fo in any cooled member we fee the Veins and the Arteries become more flender then they were wont to be; and it cannot be denyed, but that actual cold doth ftraighten the Veffels. But it is more then probable that a Potential coldness (fuch as perhaps that may be faid to be which is of an inward diftemper) doth likewile make the Veins and Arteries more flender. So we lee cold Complexions, and also cold and moift, to have lefs Veins and Arterics then the hot. Corpulent bodies, women, children, have narrower Veffels, then lean, men, or youths. Befides, the very heat it felf is an expansive quality, that it may enlarge the Veffels, and cold a contractive quality, that it may reftrain and ftraiten the Veffels. Finally, one of us observed that upon the diffe-Ation of the Bodies perifhing by this affect : He hath fomtimes found the Veins, and the Arteries, tending towards the first affected parts to be of an undue slendernefs: but that those Arteries called Carotides, and the Iugulary Veins were disproportinatly amplified; and in is credible that this might have been perpetually oblerved, had they that opened the bodies minded it with a atten-

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attentive contemplation. But this we peremptorily affirm not, but leave it to future inquiry : in the interim feing that it fufficiently appeareth by what hath been faid that the circulation of the Blood, in the first affected parts is diminished, it is likewife agreable to reason, that the Veffels also of those parts are straitned. And leing that the left Ventricle of the Heart, doth pour so great a quantity into the Aorta as may fuffice al the parts, and feing that fo many parts primarily affected do sparingly fip, that blood it is very probable that it is diffributed with an unufual liberality thorow the other parts, and namly thorow the Head and Liver, and therefore the Veffels of these parts are somwhat dilated and amplified. Concerning the lefned circulation of the Blood in this affect : We ad this experiment only, a ligature being wound about the arm or thighs of a yong boy grievoully tormented with this Difeaf, the Veins did not fo eafily lwel beyond the ligature, neither did the habit of the part ful of Blood appear in that place fo fwell'd and colored as it usually doth in those that are found. From whence apparent it is, that the transition of the Blood thorow those parts is more dul and less plentiful, then it ought to be as a river ftopped by a dam or wal doth fooner or later overflow the Banks, according to the various lwiftnels and magnitude of the Torrent : - So likewife it happneth here, the retiring of the Blood thorow the Vein, to the inward parts, is intercepted by the force of the ligature, which if it were violent, would in a short time fil the Veins, and the habit of the parts beyond the ligature; as we see it to happen otherwise in sound Perlons; but because in this Diseas it filleth them flowly, and very dully, we must conclude that the circulation of the Blood in those parts is extreamly lessened and flow, and that the Arteries inferted into those parts are more cold H 4

cold and flender then they ought to be, as we have most abundantly proved, that the Arteries of the first affected parts are vitiated by a defect of just magnitude.

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Fourthly, As for the irritation of the Heart and Arteries (which perhaps is the principle caus of many differences in the pulses) it is manifestly found to be weak and ineffectual in the Arteries of the first affected parts. We purpose not at this time to discourse of the nature, causes, differences and effects of irritation in the pulles ; only we observ in general that it may be either natural or violent ; and that each of them may be universal or particular, and withal may arise either from within or from without. And laftly, that it may be exceffive or defective : In the handling of the prefent Difeas it wil suffice to touch upon the particular Irritation of the Arteries, and afterwards to accommodate our Difeases to the present bunnels. 1. Therfore, we affirm that the Arteries impel the Blood into the substance or habit of the parts, by a certain labor and contention; and that the parts which receiv that Blood do make fom refiftance and opposition : that by reason of this conflict the Arteries are Irritated to make ftronger refiftances or pulses; and that that Skirmishing is of so great moment to fortify the pulle and render it more vigorous, that when it is weak, the Pulf can scarce be ftrong:but where the contention is fomwhat more increased, yet so, that it doth not overcome the opposition of the Arteries, the pulse becomes more ftrong and lively, provided that no impediment from fom other cauf doth intervene. This we might illustrate by divers instances, but we wil exemplify it only in a few: in the winter the pulles are more ful, hard, ftrong and constant, then in the summer ; but it is certain that at that time the outward parts of the body being bound up with cold, are more firm and lefs paffable

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paffable, and therfore that they do more ftrongly then at other times relift the Blood, contending to pais thorow the substance of them in his circulation ; wherupon the Arteries, when no other intervening matter hindreth, must needs move more vigorously, and drive the Blood more forcibly, if they perform their office in perfecting the circulation of the Blood. Hereup on those Arteries are irritated, unless they be totally supprest, or by some other means charmed, and by degrees yeeld ftronger ftrokes; and withal the Spiritous Blood being pent in & ftriving for more room they do wax a little more hot, and are forwhat enlarged, and fortimes having a little triumphed over the fubdued opposition, they drive forward the blood into the parts, with a more fwift & copious torrent then before. This is further confirmed by the heat augmented by handling fnow, for although at the first the Hands wax presently cold, yet in a short time after they grow hot, & with al they are died & colored with Blood, as the intensiveness of the heat doth justify. For upon the first contrectation or touch of the fnow the parts are bound up, and ftrongly relift the circulation of the Blood, the Arteries also in those parts are at the fame time contracted . But, unless the cold prevail to a total suppression of the Spirits contained in those Arteries, and to a stupifying of the Arteries themselvs, or at least a benummedneis, those Arteries are by degrees irritated, and the interrupted Blood more forcibly contends for wider room, and fo at length by this counteropposition, the Arteries wax hot and are dilated, and the pulf being increased, they extrude the Blood more plentifully into the part before overcooled. On the contrary, in the lummer, when lefs refiftance is opposed against the paffage of the Blood, the pulie becomes more feeble, more languid, and more loft. From whence it appears tahr

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that the defect of a du irritation, proceeding from the weak refiftance of the parts which receav the Blood from the Arteries, doth diminish the vigor of the pul-

Secondly, The fame is yet more evidently feen when the Pulfe is augmented by the motion of the Body 5 for in any violent motion almost all the Muscles are firetched, by reason wherof they fornwhat more result the passage of the Blood 5 hereupon the Arteries are provoked to contention, their heat is encreased, and therefore more nimble, strong and full Pulses are emitted.

Thirdly, As the inflamation of a part doth fenfibly irritate the Arteries thereof, fo it exciteth a more vehement Pulse and bauleth a more liberal Flux of the Blood. The same may be said of pain.

Fourthly, Hither also must be referred the bruifing of any part. For a bruifed part doth difficultly receive the Blood flowing to it : hereupon the Arteries provoked, they beat more strongly, and swell the bruifed part resisting them into a tumor. This might be demonstred by many more examples, but we conceive these to be very sufficient and fatisfactory.

Moreover, It must be noted that the parts cauled by the reception of the Blood in the Arterics, may be vety great, and yet not fufficient effectually to irritate the Arteries; in which case it rather remitteth and difurbeth them, encreaseth, or facilitateth the force of the torrent of the Blood. For that opposition of it self interrupteth the channel of the Blood thorow the subflance of the parts; but becaus it doth withal irritate the Arterics to emit more lively strokes, it quickneth the torrent of it by accident. Wherfore we are here compelled into another involuntary digression, by diflinguishing

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flinguishing between the refistance of the part that irritate, and that which doth not, or doth very little irritate the inftances already alledged will fuffice for the former, and to explain the latter we will ad a few.

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Firft, Therefore there is a refiftance that totally fupprefleth the torrent of the Blood. Such a one is caufed by a ftrong ligature, which doth altogether intercept the pulfe in those parts beyond it, neither yet doth it irritate the Arteries on this fide of it, becaufe it overcometh all the force of the Artery beyond the Ligature and doth wholly break off the action thereof. The fame is feen in the parts mortified with cold, or by other caufes corrupted with an inflamation; and perhaps in fome hard fwellings, contractures and fome confirmed wounds.

Secondly, There is a refistance prefling down the Arteries even by the compression of the Arteries, and this happeneth in a ligature indifferently bound. Alfo in the compression of an Artery by some tumor in the adjacent parts as in a raw fwelling ; also in a compreffion from any outward caufe, many things which belong to the lying down on the right fide especially, and the left are referred hither; fo in tumors on the right fide, the lying on the left fide is many times endured with the least patience by the compression of the found parts by those that are swelled &c. and this compreffion however it refifteth the circulation of the Blood, yet it doth not feem much to irritate the Arteries, because it doth no less intercept the very pulsificative force, then it diminisheth the action thereof. Although perhaps it may fomtimes irritate in the Lungs by reason of their vehement heat, just as it useth to do in aching and inflamed parts.

Thirdly, There is a refistance in part repressing the circulation

circulation of the Blood, but without compression of the Arteries, nor yet totally suppressing them, nor very much irritating the Artery. Such an one occurreth in obstructions cauled by cold, flow, thick, and moiss humors, which although they may somewhat retard the free passage of the Blood, yet they provoke the Artery very little, because at the same time they superinduce a certain benummedness in them, at least a cold distemper, as also in the Blood which they contain. The same almost may be said of paralytical members, but that in these a benummedness is more evidently introduced in their Arteries, and the channel of the Blood is less retarded in them,

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Moreover, We affirm lecondly that the parts first affected in this Difeal do not fufficiently irritate the Arteries; by which the Blood is distributed through them. For although in these parts, both by reason of their folidity, and also in respect of their coldness, we grant some kind of refiftance, yet it is extream feeble and flow, and very little provoking. First, because in chole paris a moift is conjoyned with the cold diftemger, which of it felf tempereth and qualifieth all manner of provocations. Secondly, Becaul there is a penury of inherent Spirits, which otherwife, where they abound, are wont to cherish the vigor of the Arteries, and the blood contained in them. Thirdly, Because those parts are loof, weak, and foft, and therfore more Frone to receive with facility that which the Arteries fend in, than to exalperate them by reliftance. And that the Atteries do not conveigh the Blood by any vigorous and confiderable force into these parts, is manifelt by this fign, becauf after the influx of the Spirits, and the Blood they still continue loof, fost and feeble, when on the contrary ftrong Pulfes are wont to render the

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the parts otherwife weak, ful, fwoln, and ftiff, on a fullden. Fifthly, becauf the first affected parts have in them a fimilary lubricity. For as the superficiary or external subricity suffereth any thing to pals by, without attrictition : so also the Internal or similary subricity facilitates the circulation of the Blood, so that the passage is accomplished with very smal opposition. We conclude therfore that the proirritation of the Arteries is in this Difeal deficient; and therfore that the Arteries are very dully and ineffectually excited to ftrengthen the pulf.

Having at the length weighed al things which we propounded concerning the caufes which actuate and advance the Blood in his circulation, it fufficiently appeareth, that the circulation of the Blood in this affect is eafy and expedit enough, but that it is leffened and paffeth dully thorow the parts first affected, both by reafon of the fluggifhness of the Arterious Blood contained in the Artery of the faid parts, and also becauf of the defective heat, and flenderness of those Arteries; and finally, in regard of their ineffectual irritation. And liet these things fuffice concerning the two former faults belonging to the distribution of the Blood in this affect, namly, the diminution and flowness therof. It remainet in the next place to examine the inequality of that distribution.

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CHAP. XI.

The Inequality of the Distribution of the Blood in this Affect.

*: *: His inequality is to be effimated by a compa-* T * rifon of the greatnes & fwiftnels of the current of the Blood, made in divers parts. For if the circulation of the Blood according to a Geometrical proportion be either equally final and flow, or equally great and fwift, that muft be judged equal by the fcope of the prefent enquiries: on the contrary, if in fome parts it be little and flow, and in others great and fwift, that muft be reputed unequal and difproportionate. And this is the State of the prefent difquifition.

It is manifest by what hath been faid, That the stribution of the Blood thorow the parts first affected, is extreamly sparing and flow: It remaineth therfore only that we confider whether it be transmitted thorow the other parts with a quicker and more plentifull motion.

We have already affirmed that the root of this evil is not fixed in the Heart it felf, and that this Bowel of it felf is not primarily il affected in respect of the left Ventricle therof. It is credible therefore, that the Heart (unless perhaps fom other Difeas be conjoyned or fupervene) doth rightly execute his function, and expel a fufficient quantity of Blood, for our turn by every ftroke into the Aorta. Seing therfore (as hath been already

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ready proved) that the Blood is niggardly dispensed from the Aorta into the first affected parts, a superfluous portion of it must needs be distributed into other parts not so affected : for otherwife the Aorta thould not sufficiently discharge it felf, nor disburthen the Blood received from the Heart, but it would be obstructed and oppreffed with the plenty therof; and this repletion upon every flight occasion would fly back, even to the left Ventricle of the Heart, and there kindle a Feaver. And we grant indeed, for this very cauf, among others, that in this Dileal a Feaver is eafily and frequently produced. But feing that the Feaver is another Dileaf conjoyned, and separable and different from this, and feing that this Diseal very often happneth without a Feaver; it must needs be granted, that by how much more fparingly the Blood is distributed to the first affected parts, by to much the more plentifully conveyed to the other parts, at least in the absence of the Feaver. For seing that quantity of Blood, as we faid even now, is extruded into the Aorta, as may suffice the whole Body, and leing al of it must be distributed into several parts, it most plainly follows, that the lefs is transmitted into one part, the more is difpenfed into another. And thus it may be perceived that the inequality of the diffribution of the Blood is inferred from the fole diminution thereof, in the first affected parts above afferted, (at least probably) namily, from the final and flow current of the Blood thorow the parts first affected, there may be rightly collected à more quick and plentiful ftream of it, into the inward parts not so affected. Now let us see whether the other appearances mlating hither are correspondent to this Discourd

First, It seemeth manifest by what hath been alleadged, that the Head, the Brain, the Liver, and the other Bowels, are not afflicted with that cold diffemper, nor

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that flupefaction and penury of inherent Spirits, wherwith the parts primarily affected are oppreft. For the bowels and the faid parts do not receive their Nerves from the Spinal Marrow, without the Skul, but they are involved in the fame condition with the other parts. Moreover, those parts, as far as we can judg by the touch are (at least outwardly) moderatly hot, and as far as we can guess by the fight they retain their native and florifhing color, besides they are more ful and fleshly, then the first affected parts. 1

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Moreover, Children afflicted with this Diseas have an indifferently good appetite, they do not il concoct the introfumed aliment, and about the Head they retain their senses very acute : they see, they hear, they taft, they finel as fubtily as others, and as for their wit, they many times furpals those of equal years with them ; unless an impediment from some other caus. All which things put together do abundantly witnels, that a cold, diffemper, nor a benummednels or penury of Inherent Spirits, hath none, or at least a very smal predominancy in those parts. These things being granted, we must likewife needs grant that a more liberal diffribution of the Blood is dispensed to the said parts. For as for the heat, we have already shewed that that doth both amplify and ftir up the Arteries to fend forth a ftronger pulfation ; and we have also noted above that the plenty of the Spirits, doth not only cherish the pullificative force of the Arteries, and conferv the vigor of the Blocd contained in them, but that it doth formwhat enliven and excitate both of them, and that by fo much the more effectually, by how much the lefs the inherent Spirits are affected with a flupefaction.

Secondly, unleis those parts were watered with a more liberal circulation of the Blood, they would becom more foft.

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foft, loof, and feeble, then they are, even as the parts first affected are observed to be. For upon the defect or languishing of the Pulf in any part, the part presently becoms loof and weak, as it happneth to al the Parts in a *Lipothymy*. On the contrary, when the Pulf beats ftrongly, the Part wherunto it belongeth, is seen to be fomwhat rigid and swelled. For a ful Pulf doth presently fil up those parts, which were before funk down by emptiness; as the *Lypothymy* being driven away, and the Pulf being restored, the Parts of the Body, which were before loof and languid, are not only wel colored, but ful of vivacity and turgid : feing therfore that those Parts are not affected with that fostness, loosiness, and weakness, we must conclude that they are actuated with a full Pulf.

Thirdly, The very augmented magnitude of the parts, in comparison of the parts primarily affected in this Dileaf doth witness, that they are more liberally fed with their aliment, namly, the Blood, (which is reputed the common and last aliment of the Parts) for otherwise fcarce any sufficient reason can be imagined, why, when the first affected Parts are so extenuated, these should be (especially the Brain and Liver) in so good a condition, so ful and so plump. The same thing is confirmed by the lively color of the same parts. For if the Pulf languish in any part, somewhat of the fresh and amiable color presently retireth from that Part.

Fourthly, The Arteries called *Carotides*, and the Jugulary Veyn, which belong to the Brayn, and the parts about the Head, are observed to be very broad in this affect; but the Veffels tending to the first affected parts to be unduly flender; from whence we may clearly infer, That the dispensation of the Blood to those Parts is unequal. And here we intreat and beseech those who have

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an opportunity to open fuch Bodies as this affect hath deftroyed, that they would accurately contemplate whether the fwelling Arteries inferted into the fwelling parts of the Bones do more liberally, and more commodioufly transmit the Blood into those, than into the other less nouriscant of the Bones, and whether the Arteries of those parts are more broad than of these. Although indeed we confess that this enquiry is most difficult, both because of the flenderness of those Arteries, and in regard of the obscurity of their infertion, and also in respect of the hardness of the Bones.

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Fifthly, Hither also belong things hurtful and helpful for children afflicted with this Difeas are manifeftly benefitted by rubbings, motion, and various agitation of the Body, by exercifes, ftrengthning Oyntments, and the like means which raife the heat in the Members or the right-fide, and the other parts primarily affected, and irritate the Pulfes and augment them after any fort, whereby the distribution of the Blood may be more neerly reduced to fome equality; with the contrary things they are damnified. In like manner fuch Medicines which promove the difpensation of the Blood te the first affected parts (as those which are moderately hot, benign and familiar to Nature, and lo attenuant incident, and deobstruent that at the same time they de not in the leaft degree waft but cherish and augment the Spirits) help very much towards the cure of this Dieaf; the contraries do either produce or foment it be ing produced. All these things being confidered we mul conclude that the deftribution of the Blood in this affect is irregular and unequal. And thus at length we have finished the disquification of the faults in the destribution of the Vital Blood; we now proceed to the examixamination of the faults, if any such there be, of the /ital participative Constitution in this Disease.

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CHAP. XII.

The faults of the Vital participative Constitution in this Affect.

W Vital Conftitution is grounded in the Arterious Blood, and especially in the spiritous part thereof : but because the solid parts also o somewhat truly participate the nature of Life we justassisted unto them the Vital participative Conftituion.

Now this Conflitution confifteth in Three Things.

First, In a certain union of the Arterious Blood with the substance of the solid parts through which it affeth.

Secondly, In the Vital heat excited in those arts.

Thirdly, In the enlivening and exaltation of the Natural Conftitution, and of all the Natural faculties fthose parts.

First, As for that union of the Arterious Blood, it nust be justly reputed, the first part of the participative ife. For the tolid parts are therfore faid to particiate of the Nature of Life, or the Vital Constitution, ecause the Vital Spirits are contained in them. For

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Life cannot confift without a Vital Spirit. Therfore when the Vital Spirit is diffributed in and with the Arterious Blood to the folid parts through the Arteries, and these parts do suck in that Blood into their substance, it comes to pass, that the said parts are counited with the Vital Spirits, and so they participate of the Nature of Life.

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Moreover, Seeing this union is not permanent bu transient and confisteth in motion, it seemeth to confis in the confluence and mutual embracement of the inherent natural and influent Vital Spirit : but the conditions which are requisite to make this a natural concourse are,

First, That it be in all respects, moderate, and no impetuous.

Secondly, That it be in all respects strong, and no feeble and stupified.

Thirdly, That it be friendly and peaceable, not he ftile and Turbulent, that it be gentle not tumultuous that it be neither too flippery and fmooth, nor to rough.

Fourthly, That it end not in any kind of diffipatio of the Spirits, but rather in the appealing and apt di polition of them for their return into the Veins. Mor fuch conditions might perhaps be added; but becau they very little belong to this Difeal, we shall here for perceed any further examination of them. We on note that the mutual concourse and union of the Vit and natural Constitution by their Spirits, doth not of cur in this affect, with that activity, vigor and complicency, as it usually doth in found Bodies. And the fourth of the first affected Parts doth labor under fitution of the first affected Parts doth labor under col

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Therfor cold and a moist distemper, a defect and benummedness h the Ap of Spirits, but that the Vital Blood it felf is also fom-Anerios what damped and stupified in the tops or ends of the their lub Arteries, before it can be conveighed into the first afre cour ected parts, so that that union must needs be perforpate of the ned without either a sufficient vivacity, or pleasure. For when the vigorous Vital Spirits do meet together anent be vith the Natural Spirits no lefs vigorous, they are uto conti uited with a kind of curteous strife and delightful conthe inhe ention. Whether, that we may illustrate this matter by e condith n example, the natural Spirits as a Bride do here al-ORCOUT ure and in a manner repel the Vital Spirits who as it vere act the part of a Bridegroom : Bit the Vital Spiand nu its provoked with their heat, and driven on by the vior of the Pulses do more confidently invade the Naand he ural Spirits and penetrate into their confines and regins, whilst the Natural Spirits in the mean time FIOT DO however as it were with modelt refiftances repulsing nutuous he affault) receive them at length not without a cernor to sin pleasure. For the very corporal pleasure is estalished upon, and encreased by a kind of amorous strife, lifipati nd the principal part of Life it self consistent in such a d apt d ontention about the Reciprocal union of the Spirits; or to that end the Vital Spirits are both generated and eftributed, that at length they may pass through the here olid Natural Constitution of the Parts, and may rofoundly imbue them with their vital power and verie; but feing this peneration cannot be effected withut endeavor and reliftance, it must needs be, that the igor of that contention & refistance, be eithar more or is according to their copioninels, vivacity, and heat f those Spirits that maintain the conflict. Therefore ecause in this affect, both the Natural and the Vital pirits are more cold, fewer, and lefs active; their

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concourf and union muft needs be dull and undelight ful. Moreover it muft be noted in this affect (which alfo we have fnewed above) that the permeation of th Blood thorow the first affected parts is to easy and flip pery, wherupon even for this reason, that concourf an union of the Spirits in those parts is rendred mor flothful, and less pleasant. Besides, hot exhalations al though for the most part they are sparingly raised in thi affect, yet being raised, by reason of the softness, lood ness, and internal lubricity of the first affected parts parts, they evaporate sooner then is meet, wherupon the leave those parts cold and feeble.

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Secondly, As for the Vital heat communicated to th folid parts (which is the second part of the Vital part cipative Constitution) that partly depends upon th aforefaid union, or the Incorporation of the Arterio Blood, with the folid parts ; but partly it confifteth in certain expansive motion or endeavor (like to that en panfive endeavor of the Arterious Blood) excited in th very folid parts. The first is very perspicuous, for th Arterious Blood through the impregnation of the Vit heat, when it is receaved into the folid parts, must nee with their fubstance communicate their heat also un them. The fecond is likewife proved without difficult For if the Vital heat radicated in the Atterious Bloc confitteth in a certain motion or endeavor of that Bloc uniformly diffuled and withal at the fame time fomwh restrained, it must unavoydably excite the same motif in the folid parts thorow which it paffeth, feing that n tural caules do always act to the extremity of their por er, and as much as is possible by way of assimilation. any man doubt whether the Effence of the Vital he confift in fuch an uniform diffusive motion, moderare restrained and intrinsically advancing: let him know th

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the Effence of heat doth in general confiit in motion or a rerefactive endeavor formwhat interrupted, as Sr. Thomas B acon doth most clearly demonstrate in his Novum Organum. But this I fay, the Vital heat, feing that it containeth in it felf the tru nature of heat, it will be alfo neceflarily fuch a rarefactive endeavor formwhat reftrained. But that this heat may be restrained to the Vital ; more conditions must be added, which neverthelefs we cannot in this place either reckon up, or accuratly fearch into, least we should run into an unreasonable digression : In the *interim* that we may have the matter, and the manner of enquiring, whether or no in this affect the Vital heat be moderated according to nature, it seemed good unto us, to propound these fubsequent conditions:

Firft, That the Vital heat may be called Natural, or according to Nature, it is requifit that the Origin therof be Internal; Namly, in the Arterious Blood, and that it be derived to the folid parts, as hath been faid, by the implantation and union therof; for that any thing may be called, Natural, it must needs flow from an Internal Principle, although it be likewife tru that what things foever do moderatly cherifh, augment, and excite that Internal Principle, may in that respect deferve this appellation.

Secondly, It is required, that that heat be moderate, not unequally, remils, or intensive, but communicated to the parts, in an even degree.

Thirdly, It is required, that it be in fome measure uniform, and like it felf in those parts, that rejoyce in the fame fimilary conftitution, provided, that they be equidistant from the fountain of heat, and after the fame nanner affected by fome other concurrent and adjacent causes. But in the parts further distant from the foun-

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tain of heat ; yet otherwise, as hath been faid, after the same manner affected, that it may be uniformly dimini-Ined : And in like manner in the colder parts in respect of the inherent conftitution, that it may be also proportionably more remifs. Laftly, In the parts diverily atfected by other caufes, to that one may be much more intenfively hot then another : it is requifite, that between the hotter and the colder part there be found a heat gradually, and as it were uniformly more remifs (if you proceed gently from the hotter towards the colder part.) And even a certain uniformity may be observed in this deformity or disparity of heat, so long as it continueth within the bounds of Nature. For the parts immediatly and intermutually touching one another, are in a preternatural capacity, or condition : If one of them be extreamly hot in comparison of the other. For leing that this Vital heat confisteth in a rarefactive endeavor iomwhat restrained, if it be very unequal and disproportionate in the Parts bordering upon one another, it will happen, that that part which endeavoreth with vehemence, doth withal endeavor to separate it felf, from that which uleth no fuch vehemence, and fo that it wil becom a preternatural endeavor, caufing pain : for pain confisteth in the folution of continuity, not yet made, but to be made.

Fourthly, That this heat may not actuate or affift the action of any other hurtful conjoyned quality whatfoever. For although in this cale the conjoyned hurtful quality is chiefly peccant, and meriteth the greater part of blame, yet cannot the heat be altogether excufed. For an actimonious and malignant heat, denoteth other qualities to be conjoyned befides the bare heat, yet the Vital heat it felf, in as much as it exalperateth and provoketh the activity of those conjoyned qualities to a more potent

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potent depravation and annoyance, it must be judge d' partly culpable of their vitious actions.

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Fifthly, On the part of the refiftance moderation is also required, both in respect of the appealing of the irritated Vital Spirit, and also in regard of the passage of the Arterious Blood, and finally in respect of the transpiration of the unappealed exhalations.

Sixthly, A certain proportion must be observed between the expansive endeavor of the Vital heat, and the refistance that restrains it, an excels therefore in either of them in it self is not a fault, but if one be disproportionate to another, in that regard it must be reputed faulty.

Seventhly, A certain harmony and order is oblervable both in the endeavor, and in the reliftance. For they do not always proceed in one form and continuation, but as it were fighting, they are fomtimes intended, fomtimes remitted. And indeed they are chiefly increased in the Diastole of the Arteries, wher the blood not being contained in his Marrow Veffels, strugleth for more room, and fo ftretcheth the Arteries, til a competent portion of it falleth down, into the habit of the parts, and is there digested ; for then the place doth not compel the Blood into such straights, but after a short time it defifteth from that impetuofity, and among the causes of the pulsation this motion of the Blood is not the least confiderable. Now that we may apply these things to the present business, amongst all the conditions now proposed, the second alone seemeth manifeitly to be defired in this affect. For the Vital heat is not here moderate, but defective and more remils than the just and Natural Degree. For seeing that the first affected parts are befieged with a cold and moift diftem-

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per, and with a penury and benummedness of Spirits, they must necessarily (as we have already demonstrated) somewhat rebate the heat of the Arterious Blood before it is transmitted into the substance of them; wherupon those parts participate a more remiss degree of Vital heat, than is due unto them. And this shall suffice concerning the communication of the Vital heat to the Parts.

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Thirdly, As for the last part of the participative Life, which indeed dependeth upon the two former, and which is the first in the intention, though the last in the execution of Nature ; we fay, that it is in some fort the end both of the Original Vital Conflictution, and also of the diffribution thereof, and finally of the aforefaid union and heat communicated to the parts. For the Vital Spirits are not excited in the Arterious Blood for their own fakes alone, neither are they diftributed into the parts, and united to them, only for their own advantage; but chiefly, that they may enliven and dignifie the inherent conftitution of the folid Parts, and fo actuate and promote their faculties. For as the heat of it felf is only potentially visible, unless it be irradiated with light, so those inherent faculties of attracting, retaining, concocting, fecreving, and forming, are dead as it were and meerly potential, when they are deprived of the vivification and erogation of the Vital afflux, This is most clearly conspicuous in a lipothymy; for upon the defect of the Vital influx, all those faculties fuddenly fail, decay, languish. But leing all the faculties are established upon some constitution, which is both the cause and subject of them, it might be demanded in which Conftitution of the parts it is grounded ? We answer, in respect of the potential Nature they are radicated in the Natural Conftitution

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tion which we have before defcribed; but that in reference to the Actuated and Elivened Effence that they depend likewife upon the Vital influx. And we declare in general that the participative Vital Conftitution, which we have already afferted to confift in Three things, conjoyned with the Natural Conftitution, is the total and adequate, both caufe and fubject of all those faculties. But it would be a tedious degreffion, and inconfiftent with our purpose, to make enquiry how those Conftitutions can produce this or that faculty determinate in its Species. For the prefent we will only run over those faults of the faculties aforefaid which occur in this affect.

First, The fashioning vertue here erreth by an unequal purging out of the Vital Blood in divers parts, as we have discoursed above. Hereupon the Head and the Liver grow to an unmeasurable bigness; the first affected parts are extenuated, the ends of the Bones stick out, and some the Bones themselves, which are otherwise straight, wax crooked.

Secondly, The Concoctive faculty is weak in this Difeaf and in the first affected part by reason of the inherent cold diftemper, the penury and benummedness of the Spirits, the brittle and flippery union of the Vital spirits with the Natural Constitution, and by reason of the feeble imprinted Vital heat.

Thirdly, The Attractive, Retentive, and Expulsive Faculties, feem not to recede much from their Natural Condition; yet the Attractive is fomwhat more flow than ought to be; the Retentive, by reafon of the internal lubricity is fomwhat weaker, and the Expulsive is more vehement for the fame Caufe.

And thus at length we have dispatched the faithful examination of the faults of the Vital Constitution in

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this affect. The Animal Conftitution should now undergo the next disquisition, but that som faults of the Natural Constitution; namly the Organical faults therof, which have some dependance upon some of the recited faults of the Vital Constitution, do challenge this place, as most proper to themselvs.

CHAP. XIII.

The Organical Faults of the Natural Constitution in this Affect.

*: *: Eing that the Organical faults in this Difeaf belong to the Inherent Conftitution of the parts, thof indeed by the Law of juft Method in the fame Conftitution; but as we have noted above, the Reafon and Cauf of them must be derived from the faults of the Vital Conftitution lately mentioned, and therfore we are conftrained to premife the examination of these, and to referv the confideration of the other for another place.

The Organical faults in this affect are fitly reduced to these Heads.

First, To the extenuation and leannels of certain parts namly, the parts first affected.

Secondly, To the unreasonably augmented magnitude of some parts, as the Brain, the whol Head, and the Liver.

Thirdly, To the tumors for lanching out of certain bones,

Bones, as of the Bones to the Wrefts, to the Ankles, and the ends of the ribs.

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Fourthly, To the bowing of certain Bones, as it frequently happneth to the Bones of the Cubit, and the Shin Bone, fomtimes to the Bone of the Thigh and Sholder.

Fifthly, To the poynted figure and narrownels of the breaft.

And these faults are reckoned beneath among the Symptoms and figns of the Diseal, not because they are indeed meer Symptoms, but because they are obvious to the Senses, and so do fitly supply the place of figns, both in respect of the parts of the Effence of the Diseas more deeply retired, and also in respect of the hidden causes therof. For whatsoever is perceived by the sense, and befides it felf representet h somehat elf to the understanding that is obscure, hath the formality of a sign. For indeed these faults are parts of the secondary Effence of the Diseas, feing that they are the vitious Constitutions of the Organs depraving the action, and have a dependance upon the other parts of the Effence of the Diseas.

The common cauf almost of al these recited affects feems to be an uneven or disproportionate nourifhment or *Alogotrophy* of the parts. Now this dependeth chiefly upon two causes in this affect. The first is, the unequal inherent Constitution of the parts. irregularly nourifhed. The disparity between the inherent Constitutions of the first affected parts, and the Head and Bowels, cannot be fo wel collected by what hath been already faid, but that it may deferve a further inculcation. The last cauf, which is indeed of equal moment, is the very unequal distribution of the Arterious Blood into the parts unevenly nourifhed. That the Blood is unequally diftributed in this affect we have already fnewed, here we only

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only infer that that must needs produce an unequal nutrition of the parts. Al Creatures the more liberally they feed the more fat and flefhly they are unless fom oother impediment doth intervene; but if the du quantity of aliment be fubftracted, they grow lean, and are daily more and more extenuated. Why fhould we not fuppofe that the fame thing happeneth in the Parts of Creatures? the Blood, or at least fom what contained in the Blood, is acknowledged for the last aliment of al the parts, wher therfore that is liberally dispensed to one part, and sparingly to another, certainly, it is no wonder if one part be excessively augmented, and another extreamly extenuated. But these things may fuffice in general. In particular,

First, We affert, that the first affected parts in this Difeal do dayly wax lean and fal away. Proof of this affertion cannot be reafonably expected, feing that dayly experience yeeldeth an occular demonstration of it. But why those parts are so extenuated, that may require som reasons, and we offer these.

The first is deduced from the primary effence of the Difeal; namly, from a cold diftemper, a penury, and inactivity of the inherent Spirits in the parts aforelaid, For by this means the attractive, retentive, and concotive faculty, do execute their functions in those parts, unduly and ineffectually.

The fecond is brought from the loofnefs, foftnefs, and internal flipperinefs of the fame parts; for hereupon the expulsive faculty is too much irritated, the breathing is too eafy and diffipative, the circulation of the Blood is to flippery, the retentive faculty through the weaknes of it, parteth, with the aliment too foon, and with too much facility: and this very thing almost happneth here in these parts, which befalleth the Gats in a Lyentery. How-

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Howfoever it be, the expenses exceed the incoms, and by confequent those parts are extenuated.

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The third Reason ariseth from the unequal distribution, and indeed defective in the first affected parts, of which we have already superabundantly discoursed.

Secondly, We affirm, that in this affect the greatnels of the Head, and especially of the Liver, as also of the Brain is unreasonably increased. Somtimes the Pal/y im the Head is conjoyned, which nevertheles we suppose to be of a different Species, and no part of this Diseas: although we grant, that this affect may somtimes give occasion to the supervening Hydrocephalus. Moreover, we have somtimes seen, the Consumption being superinduced upon this affect, and long continuing also, the Face, and the parts about the Head to be somwhat extenuate before death. But this was produced by the Consumption, not by this Diseas we now treat of. But that we may give a reason of that greatnels unmeasurably increased in the Parts aforesaid. We note,

First, That the parts belonging to the Head and almost all the Bowels, do receive the Nerves from that part of the Spinal Marrow, which is included within the Skul, and therfore that these parts are not necessfarily subject to that unhappy condition of the first affected parts. Wherfore no reason doth compel us to affirm, that these augmented parts are either affected with a cold diffemper, or a penury and dulness of Spirtts, or that the attractive, retentive, or concoctive faculties are therupon vitiated, and by consequence that those parts are totally exempted from the first cause of that extenuation which befalseth the parts first affected.

Secondly, we observe that neither loosnels, nor flaccidity, nor softnels, nor internal flipperinels are predominant in those immeasurably augmented parts, and that

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that these qualities (as it happneth to the first affected parts) do not yeeld a more irritated expulsion then is requisite, so that the exportation should be feared to exceed the importation, which we have showed to befal the extenuated parts.

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Thirdly, We observe that the Blood in his circulation, by how much the more sparingly it is diffributed to the first affected parts; the more liberally it doth water and nourish these parts. This we have already proved, and it is needless to infert more arguments to that purpose. These things therfore being observed, the Reason is playn, why the parts aforesaid are unmeasurably and irregularly augmented. For if the attractive retentitive and concoctive faculties be not weakned in them, according to our first annotation, and the expulsive be not immoderately irritated according to the second, and in the interim if sufficient aliment be dispensed to them according to the third, the bulk of them must needs increas beyond proportion.

Thirdly, We affirm that the protuberancies or fwellings of the Bones in the Wrefts, Ankles, and the ends of the Ribs do vitiate the Organ in a twofold respect; namly, in respect of the greatness, and also of the figure. The parts vitiated in both respects are obvious to the Eys, and therfore we shal superiede al further proof.

But why are the Bones siretched out after that manner in those places ?

Truly it is very hard to render a Reason therof, neither perhaps dare we engage our felves by promise to give fatisfaction in all respects herein to the curious. Therfore instead of an answer we dedicate to the Reader these subsequent observations as not altogether unprofitable.

First, The Bones in many do agree with the fubstance

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f the Bowels. For first they confist of a certain fimiry matter severed from the preterfluent Blood, not ceding any laborious affimilation, and feem to admit most easie nutrition till they arrive at the exaltation nd highest pitch of their encrease; Moreover, they em to be nourished until by age they are brought to an xtream drinefs, and they feem not to be obnoxious to ny confiderable extenuation 3 fo the fubitances of the lowels are fimilary being joyned together by the fepaation almost of the Blood alone, and they likewife eafir encreaf, and are difficultly and rarely extenuated. Seondly, The Bones are nourifhed almost after the fame nanner, as the Parenchymata or subftances of the Borels: Through the Arteries they receive the blood, hrough the Veins they amandate and conveigh away he superfluous portion of it, and instead of Vessels of he third kind whereby the excrements are expelled, hey are furnished with Cels and Cavities. Some peraps may doubt of the Arteries of the Bones, becaule o hard and rigid a part may feem unapt to admit any ulfation of the Arteries within it, we grant indeed hat the Bones in regard of their hardness and flifnels re less apt for the pullation of the Arteries, and therore we acknowledg that they admit not within them a-1y notable ramification or branching of Arteries; but f any man will from thence infer that no Arteries are admitted into them, truly herein he must expect our ibsolute denyal, for they are living Parts, they are nouished, they grow, and they exercise the Attractive, Reentive, Concoctive, and Expulsive faculties. Again, hey receive the Blood, which they cannot do but by the conduit Pipes of the Arteries, and this is manifelt by the bloodinels of them, when the Bones of Living Creatures are either broken or any other way divided. K

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In yong Creatures the spongy substance of the Bones and the very Marrow is fentibly perfused with Blood. and the greatest part of their Cavities is filled more with Blood than Marrow. In elder and greater Creatures you may observe both Veins and Arteries through the Membranes enwrapping the Marrow; all which things do fufficiently prove that the Blood is diffribu ted into the very Bones. But wife Nature (who in th conformation of all the parts doth most equifitely an aptly proportion all things) forefeeing here that th Veins and Arteries could not conveniently be extende by a longer carnification through the subfrance of th Bones by reason of their hardness, the cafteth that va number of them, fome being as smal as hairs, into al most inconspicuous little holes in the Bones. But you foundly boyl the Bones of greater Creating these Orifices of the infertion of the Vessels ma very eafily be perceived in the outward superficies if ye remove the Skin enwrapping the Bones. But let th luffice concerning the Veins and Arteries of the Bone feing that this matter is fomwhat incoherent with o fcope. As for the Veffels of the third kind, feing th the excrements of the Bones were not about to prove a together improfitable, nor could con-modioufly bee pelled out of the Body, Nature, instead of a Vessel the third kind hath made certain Recepticles (name Cavities and Cels) into which the would exnoer: and caft afide the excrements, namely that fat part whi is altogether improfitable to furnish the Bones wi nourifhment. There are some who suppose the Ma row to be the principal nourifiment of the Bones, b very inconfiderately, feing that the Marrow, as we ha faid, is altogether unapt for the generation and nouril ment of the Bones, for the bones are not only me har

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hard and folid and naturally of a white colour, but they confift of a certain earthy and clammy fubiliance, which conditions differ very much from Marrow. Again, Marrow canger by any art be fublimated to the firmnels of a Bone. Moreover, Marrow melterh, and is diffolved with a moderate heat of the fire; but the Bones endure the most ardent flames of fire without any melting. Befides, Boil the Bones as long as you pleafes they resolve into a gelly, not into the substance of, or like Marrow. Again, Bones may be worn to pouder, lo cannot Marrow. Certain therfore it is, that the marrow is not the Aliment of the Bones but a kind of excrement, or rather secrement of them, profitable indeed, and therfore to be preferved in those receptacles. For the Bones being otherwife dry, cold, and rough, would be unapt for motion, were they not moiltned and made flippery by the exundations and exhalations of the Marrow, and cherished by their gentle heat. All these things are confirmed by this single experiment. In yong Creatures the greatnels of the Bones being confidered, there is lefs Marrow in the Bones, and more Blood, than in greater Creatures. In the Embrion, there are scarce observed any figns or appearances of Marrow deftinct from the Blood. But after the birth the medullary substance is daily augmented, and it is visibly perceived to be lefs and lefs intermingled with the Blood; again in the maturity of years the Bones are filled almost with pure and fincere Marrow, 'without any confiderable commixture of Blood; but in the approaches of old age it is credible that the Bones are lefs and lefs watered with the circulation of the Blood 3 and perhaps the Marrow it felt upon the fulpenfion and ceffation of the nourifhment is rather augmented than diminished ; in which respect the propounded experi-K 2 ment

ment must be peradventure limitted. Thirdly, the Bones (the Teeth perhaps excepted) cannot want their nervs, at least very little, neither are they supposed to be otherwife sensible, then by reason of the Periostium, or the Fibers therof fastned into the Orifices of the Bones. In like manner the substances of the Bowels seem to obtain that dul sense, which they posses, rather by the Membranes and vesses, then from their own substance.

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From hence we collect, that the Bones in this affect are not much otherwise affected, than the substance of the Bowels in respect of nourishment. We have already shewed that the Bones are not to be reckoned among the first affected parts, as likewife neither the Parenchymata: only we here further affirm that all the Bones univerfally confidered, are not perhaps less sparingly nourished in this Diseas, than they usually are in found Bodies, for if they be nourished by way of coaugmentation, or joyning together, as the Parenchymata are, and with such facility also, if they posses Arteries and Veins delated unto them, and Cells, and Cavities to receive the Blood, if they be not in the number and condition of the first affected parts, and if they receive not Nerves from the spinal Marrow; it is very credible that they do duly receive, laudably retain, and perfectly concoct their Aliment. Moreover, If you will confult experience, Children afflicted with this Difeaf, a regard being had to their age, and the magnizude of their parts, weigh heavier than others for the most part, as we have somtimes observed, which very thing seemeth partly to be ascribed to the greatness of the Bones. Although in this cafe we wish more frequent, certain, and accurate observations, which other who are befriended with opportunity may oblige the world withal : in the mean time we suppose in genera

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that the Bones are not illiberally nourifhed in this Difeaf.

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Some may reply, That what hath hitherto been soken doth concern the nourishment of the Bones in general, but that they yield not a reason of the protuberances in bem.

We deny it not, but feing that these faults of the Bones depend upon their unequal nourifhment, as we have already proved, we supposed it would not be unwostable to purpose some reason of their nourifhment in general : now we draw neerer to the aforesaid swelings of the Bones. And we observe, Secondly, That hose tumors of the Bones are not of a different kind in espect of the other parts of the some, but that hey are parts altogether so the some, but that hey are parts altogether so the sole of the like kind with the rest, and that they are not faulty in respect of he song the sole of the sole of the sole of the reatness and figure.

From hence it followeth thirdly, that these swellings re not produced by any illegetimate matter of the ones, or by any other vertue than the same by which and from which the other are generated.

Fourthly, That the faid fwellings are produced by an nequal nourifhment of the Bones, as by a more liberal ourifhment of the fwelling parts, and a sparing noufhment of the other parts of the same Bone. And nefe Three last observations we have already abunantly proved where we treated of the affected parts.

Fifthly, We observe the *Epiphyses* of the Bones in he Wrests and Ankles, and perhaps in some other aces, to be more soft and spongy than in the other arts of the same Bones. And peradventure they reive into themselves greater Arteries and Veins, alough indeed we are not yet fully affured of this. The

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tops of the Ribs are also much more fost and spongy than the other parts of them. From whence we infer that those more fost and spongy parts of the Bones may. more cafily and freely admit the circulation of the Blood, and therefore be more plentifully nourifhed than the reft of the parts of them. You will fay, That softness and sponginess of those parts is observed to be as well in healthful Children as in those affected with this Difeas. We grant it, but yet it must needs be, that those parts which are of a more compacted substance, and with difficulty admit the circulation of the Blood, must be affected and obstructed upon lighter caules, then those parts that are more open, and more eafily receive it. But the Blood in this affect is transmitted to the external parts fornwhat more cold, viscous, and thick, then it ought to be ; therfore those parts which are unapt to admit the circulation of its those are more apt to be fomwhat obstructed, and less liberally nourished.

But, why also are not those soft and (pongy parts more liberally nourified in sound Bodies, seing that they (as hath been faid) do more plentifully receive the Blood?

We answer, Becaufe, as in health those parts do in a larger measure receive the Blood thorow the Arteries, to they remit the same more plentifully thorow the veins which certainly doth preferve them from that exceffive augmentation unto which otherwise they would grow. But in this affect the same parts by reason of the coldness, thickness, and viscosity of the Blood, do perhaps more spacingly and more flowly remit it, then it is poured into them, and therfore from that abundance and excels of the Blood, those parts do som what increase whils the other parts of the Bones by reason of the narrowness of the cavity of the Artery, are not perhaps furficiently nouriflied with Blood, whereby to obtain an egual

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mal nutrition and increaf. And from hence (at least vobably) we deduce the inequallity of the nutrition of he Bones in this affect. But the condition of the Blood herby in this Difeaf it is apt to obstruct any parts thoow which it floweth, feems to have a peculiar respect to he quality of the Bones. For in the Bowels, the Lungs scepted, the Blood doth feldom Generate obstructions, s also neither in the first affected Parts : However it be he Bony substance, either because it is incapable of the nternal flipperinels, or because the nutritive juice in te mas of Blood is peculiarly apt to congeal in the parts vehemently fixed : or laftly, because it hath in its own ature fome affinity with the Bones : we fay, the Bony ibstance is easily infested with obstructions in this Diaf, and therupon it happneth to be unequally nourired.

The Faults of breeding Teeth are likewife to be referred. ither, feing that they also feem to depend upon this uneal nutrition of the Bones. For if the Teeth thould be esally nourished, they would be of a uniform fubftance, ad would not fal out by pieces, as it here. frequently appneth. For the fimilary parts, when they are equally ourished, acquire not such an interrupted and unequal onfistence, as to be eafily broken in pieces. Wherfore ing the Teeth are parts naturally delighting in a fimiry fubitance, were they equally nourified, they fhould njoy an equal and uniform confiftance, and would eiher continue firm in their gums, or would fal out whol: and there can fearce any other reason be given, why they rould be broken and fal out more on one fide, or in one art then another. We grant indeed that their aptness to reak, may hitherto conduce very much: but we conceive hat even that aptnels to break, doth in great part deend upon the unequal nutrition aforefaid. For otherwise the

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the Teeth do ufually obtain a very firm, folid, & coherent fubftance; and the truth is, they feem to confift efpecially in this vifcous affect of a very matter. For the Blood for the most part is observed to be more vifcous and thick then ordinary, fo that this aptness to break off the Teeth, cannot be seafily afcribed to a defect of viscofity in the matter, as it may much more probably to the inequallity of the nutrition. We conclude therfore that the standing out of the Bones, and likewise the faults of the Teeth, do proceed from the unequal nutrition of these parts, arising from a peculiar obstructive disposition of the Blood, having reference especially to the Bones. Now we proceed to the crookedness of the Bones in this affect.

Fourthly, In this affect the Bones are frequently fomwhat crooked, especially the Shin Bones, and the leffer Bones of the Legs; also the Bones of the Cubit, the leffer of the two long Bones of the Cubits, and the bigger Shank-Bone, fomtimes the Bones of the Sholder and Thigh: fom Joynts also becom crooked, fomtimes inward, fomtimes outwards: the whole Spine is likewife many times bended, fomtimes it is wreathed like the letter S; namly, partly forwards, partly backwards, and fomtimes partly to the right Hand, partly to the left.

Some alcribe this crookedness of the Bones, to the bending faculty of them; for lay they, in the tender age of Children, the Bones themselves are not so ftiff stubborn, and inflexible, as in their riper years; and therfore upon the invalion of this Diseal, they are rendred in some degree easily flexible. Therfore they rebuke the Nurses, which too soon commit the children to their Feet, supposing, that the Bones are made crooked by the suffained burthen of their Bodies. Others also tax the Nurses of imprudence in swalling them.

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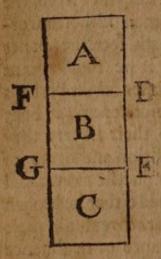
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But we cannot yeeld our ful affent in all respects to chefe Reasons. And first we flatly deny, that the Bones of Children afflicted with this Dileal are more flexible, or less fliff and friable then the Bones of others. For we have already proved, that the Bones in this affect do not differ in respect of their similary substance from the Bones of found perfons. Befides, no man hitherto worthy of credit hath atteited that he hath feen the Bones flexible in this Difeaf. Moreover, if we should grant that in this tendernels of years the Bones might perhaps be fomwhat bended, yet they would not continu fo bent like lead or wax, but being left to their liberty they would return again to the proper polition and figure of the parts. For they confift not of any ductile matter, and therfore by being thus bent, they would either be broken or elie doubtless they would endeavor to reobtain their former fituation. As for the ignorance or negligence of Nurses, although we do not altogether excuse it, yet cannot we justly impute this crookednels of the Bones to their carelesnels. We see the Children of Poor People. are ordered and handled with lefs care, and fooner committed to their feet then the Children of the rich, yet the Children of Poor People are more rarely afflicted with this infirmity, then the Children of the rich. Befides, we have known Nurses use all manner of diligence as fwadling them, and every other way laboring to prevent this incurvation, yet al their pains, otherwife praifworthy, hath in this respect been succefles. Therfore we must indeavor to find out some other cause of this crookedness.

We compare the Bones therfore, in which this crookednels uleth to happen, to a Pillar, and not unaptly, feing, that when they are crected, they refemble a Pillar; and from thence we deduce a demonstration that illuftrates

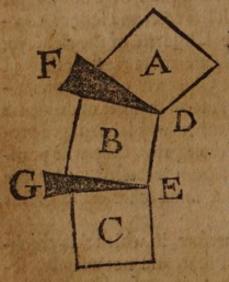
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firates and makes the matter very plain. Let the Piflar therfore confift of three ftones A B C placed over one another. We suppose it such an one as is perpendicularly erected on every side, and of the same height : If therfore you shall fasten in a wedge on the right side be-



tween the flones A B through the line PD, the Head of the Pillar; Namely, the flone A will of neceffity be bended towards D and wil make an Angle in D, and the height of the Pillar on the right fide, wil be higher than on the left. In like manner if you drive in another wedg thorow G E into the flones BC the pillar wil be yet more bowed, and the angle wil be made in E. Now therfore the Pillar flands

bent to the left hand after this manner.



ABCFGDE.but if you build the Pillar of more itones, & betwixt every two, as hath been faid, a wedg be interpofed on one fide, it will not refemble the figure of a Pillar, but the proportion of a Bow, as by this following may be perceived.

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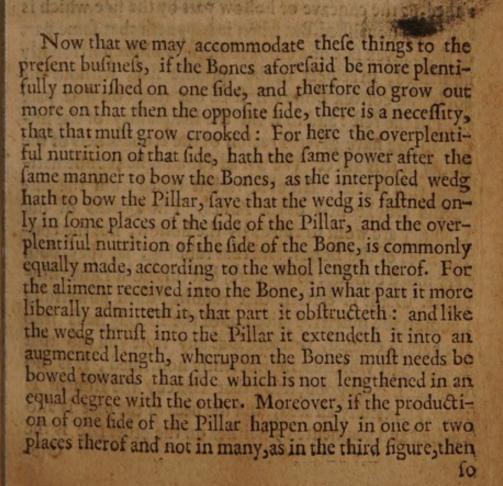
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fo much the neerer the inflexion of it approacheth to the figure of a part of a Circle, or a Bow. But if the faid fide according to the total longitude therof should be equally lengthened beyond the opposite fide, doubtless it would be bended towards the opposite fide, & would exactly refemble a piece of a Circle or Bow without any Angles, just after the fame manner arileth the bending of the Bones in this affect : namly, from the greater lengthning of the fide most nourished; for feing that that lengthning happneth by the received aliment, according to all the parts of that fide, an Angular figure cannot be expected, or one compounded of many ftraight ones angularly connexed, but a crooked one like a Bow, wherin the convex part is conftituted by the fide, plentifully nourished, & the concave or hollow part by the fide, which is fparingly nourished. But when it happneth that some part of the convex fide of a crooked Bone is difproportionatly nourished, in respect of the opposite side, without all doubt the convex Bone wil flick out more on that part then in the reft : and fo from the inequallity of the nutrition, we have given a reason of the crookedness of the Bones in this affect. We wil ad for a higher confirmation of this matter. An observation railed from the cure of this crookedness of the Bones. The Quacks of our Country are wont to rub dayly the hollow, not the con-. vex fides of the Bones, and that rubbing, fay they, doth very much conduce to the cure, but this doth rather hinder it. But it is certain that rubbing doth powerfully fummon the nutritive juice out of the Bloody mais into the part fo rubbed, therfore if at any time you rub that hollow part which is infufficiently nourifhed, it is no wonder if it do good, feing that thereby the aliment is more plentifully allured, and the heat of the part is also excited and augmented ; neither on the other fide is the Gib-

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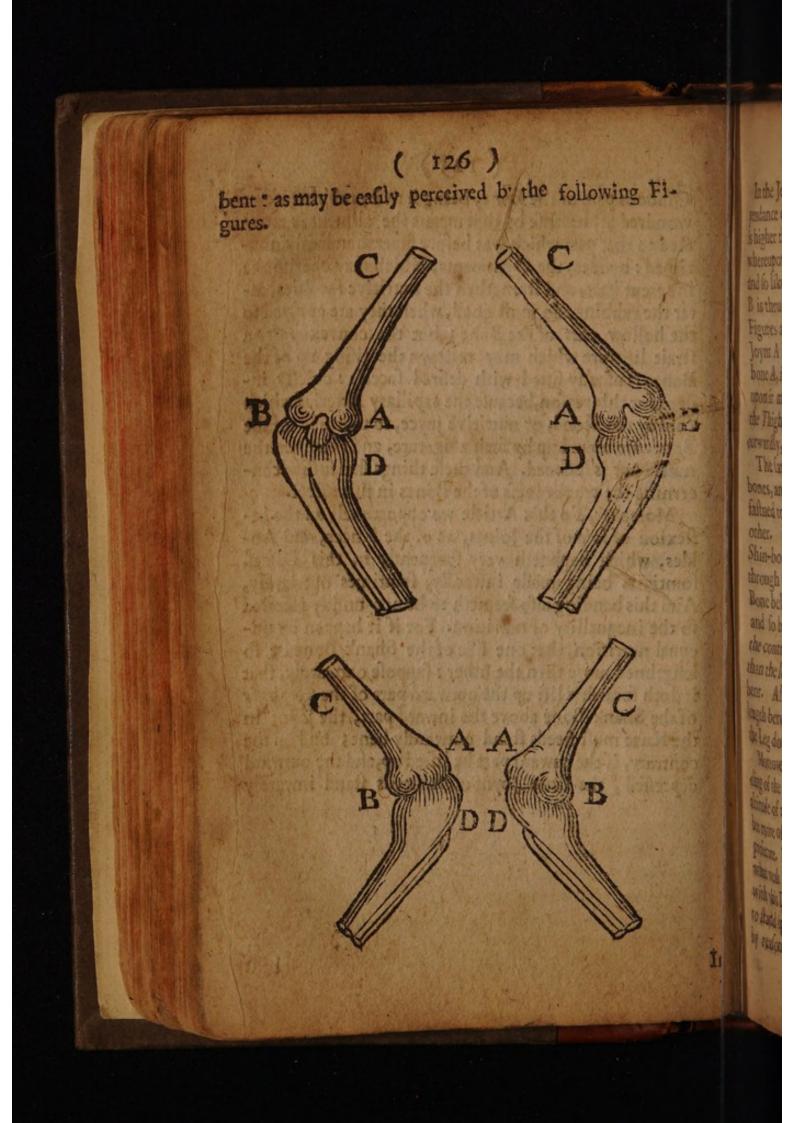
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Gibbous part of the Bone, being hurt by rubbing to be wondred at, because by that means the aliment is attraated to that part which was before superabundantly nourished: besides, the Oyntments, which may cherish the inherent heat, and strengthen the nutritive faculties, after the rubbing, do most good, when they are applyed to the hollow part of the Bone; but the convex part a strait ligature which may restrayn the rising up of the Bones is usually fitted with desired success : chiefly indeed for this reason, because the capillary Arteries which convey the Blood, or nutritive juyce, to that fide of the Bone, are bound up by such a ligature, and therupon the nutriment is lessend. And these things shal suffice concerning the crookedness of the Bones in this affect.

Moreover, To this Article we opportunely ad the inflexion of 10m of the Joints, as of the Knees, and Ankles, which happneth very frequently in this Difeaf. fomtimes being made inwardly, fomtimes outwardly, And this bending alfo feemeth to be not unfitly referred to the inequallity of nutrition. For if it happen by unequal nutrition, that one fide of the Shank-Bone be fo lengthned more then the other : fuppofe outwardly, that it doth fomwhat lift up the outward part of the $\varepsilon_{piphyfis}$ of the Shank-Bone above the inward part, the joynt in the Knee muft needs ftand outwardly bent; and on the contrary, if the inward part be lifted up, and the outward deprefied, the fame Joynt muft needs ftand inwardly

bent



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In the Joynt of the Knee, A B, that part of the appendance of the Shank-bone B, in the two first Figures, is higher than the other part of the fame appendance 5 whereupon the Bone of the Thigh (is inwardly bowed, and fo likewife is the Shin-bone D; but the Joynt A B is thrust fomwhat outwardly. But in the two last Figures all the contrary things may be observed. The Joynt A B is inwardly, because that part of the Shinbone A, is higher than the other part of it B. Whereupon it must needs lift up the inner and lower top of the Thigh-bone, fo that the Thigh-bone will be bent outwardly, and the Joynt inwardly.

The fame thing likewife may happen in the Anklebones, and the turning Joynts of the Back, if the Bones faftned to the Joynt be higher on one fide than on the other. But in the Ankles, becaufe there, befides the Shin-bone, the leffer Bone of the Leg is alfo faffned through the Joynt, it may to fall out, that the leffer Bone below may ftand out further than the Shin-bone, and fo bend outwardly the Joynt of the Ankle; and on the contraty, if it happen that the Shin-bone be longer than the leffer bone, the Joynt must needs be inwardly bent. Although we confeis that fuch an inequality of length between the Shin-bone and the leffer Bone in the Leg doth not fo often happen.

Moreover, We suppose that the preternatural bending of the Spine doth rarely happen from the unequal altitude of the fides of the turning Joynts of the Bonesbut more often from another cause which we will now profecute. We have already faid that the Spine is fomwhat weak in this affect, and that Children afflicted with this Difeas are unapt not only to motion, but also to stand upon their feet, yea, and to raise their backs by reason of the weakness of the Spine. Therefore whenwhenfoever their Bodies are raifed, they feek fomewhat to rest upon, and they suffer their Spine to be bowed sometimes forwards, sometimes backwards, sometimes to the right hand, and sometimes to the left; whereby the burden of their Body may be refted upon somthing that stands neer them. Hereupon it many times happens, that the Ligaments of the turning Joynts of the Spine in that part which is most commonly bending out are loosned and lengthned, and on the opposite fide they are contracted; fo that intract of time the Spine cannot be erected according to the ftraight and natural Figure. And truly in this cafe we cannot excuse the Nurses indiligence or negligence, because they do not observe with a sufficient attentiveness, to which part the Children which they fuckle are most prone to bend their Bodies, that by that means they may endeavor to bend them to the opposite part : In like manner also when Nurses without due regard and care do too soon commit weak Children to the use of their feet, it may happen, that, when the regular motion of the Muscles is too weak to bear the Body, Children may fuffer either their Knee or Ankle to be bowed to one fide; whereupon the Ligaments of the Joynt are extended either on the inner or the outward fide, and by confequence the Ligaments on the contrary fide are contracted, whereupon the joynt must needs be bended cither inwardly or outwardly, therfore although we have denied above that the crookedness of the Bones dependeth hereupon, yet we grant that the bending of the Joynts may happen in weak Children by the negligence of the Nurses. We grant moreover that the Bones which would otherwife have been ftraight, may be crooked by an unskilful swadling ; yet that this cause doth happen exceeding rarely in, this affect we are fomewhat con-

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confident, as we have shewed already more at large Now we proceed to the pointedness and narrowness of the breast in this affect.

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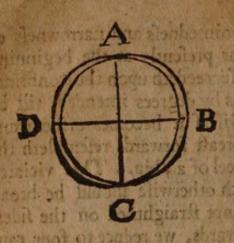
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We observe that this pointedness and narrowness of the Breaft doth not appear prefently at the beginning of this affect, but that it fucceedeth upon the confirmation of the Difeaf, and is by degrees intended, till by the perseverence of the Diseas it becomes evident and conspicuous, when the Breast forwards resembleth the Breaft of a Hen, or the Keel of a Ship. This viciated Figure of the Breaft which otherwise should be broad according to Nature, and not ftraightned on the fides, and even not pointed forwards, we reduce to four caues. The three former whereof we confeis do contribute ittle efficacy to this matter, but the fourth alone doth ilmost al the work. Yet because the three former do conribute fomthing, we will likewife recite them here in orler. Be this the first, In this affect the Bone of the itern by reafon of the augmented Bulk of the Liver is omwhat elevated or thrust forward, wherupon there appeneth some part of the said viciated Figure; and noreover from the fame elevation of the Bone of the tern there happeneth a certain contraction of the tibs towards the Spine, and this caufeth the other part

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ef the viciated Figure. This contraction of the Ribs



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we thus demonstrate. Let the circle be A B C D, this must be supposed to be made of a flexible matter, but not equally extensible, as for example, of the Bone of aWhale. Therfore when the sides A C are both stretched from one another, so that line of distance is produced into length between A C, then the moft

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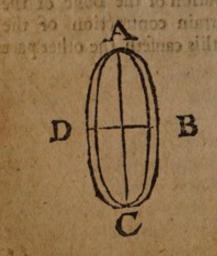
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fides of that circle D B are neceffarily contracted almost in equal degree, and by the same means the line of lateral distance from D to B is abreviated 5 for the Circle becomes an Oval Figure, as any man shall find who wil take the pains to reduce it to experiment. For the Figure will be changed into this form which the Figure



following doth express ; In which the line of diftance between A and C is represented longwife, and withal the line D B appears to be abreviated, and the Circle becomes O val; neither is there need of more words to prove this matter.

Now it must be known that the opposite couples of the Ribs do express a certain

(131) ertain rude kind of circular Figure, especially the upermost which chiefly fashion the Breast, by the mediaion of the Spine on the hinder part, and the Stern on he fore part. Nor should it trouble any man, because hey will not make an exact and perfect Circle, feing hat our demonstration is as effectual in a circular Fiure how imperfect loever, as in the most exquisite and erfect; provided that there be a coherence among all he parts, that they be not distorted, that they be flexile, but not eafily extensible; which conditions are ifficiently conspicuous in the Figure of the Ribs even ow propoled to view. Therefore if in this affect the one of the Stern be somwhat elevated forwards, that may yield room to the augmented Bulk of the Liver, ie Ribs towards the Spine must needs be drawn in neet to one another, whereupon the Breaft must unaoidably be laterally straightned, the latitude of it, beig lestened.

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Some may fay, If the rifing of the Bone of the Stern id conduce any thing to the pointed Figure of the Breaft, would chiefly effect that about the inferior Ribs, Jeg that this elevation of the Stern doth begin at the loer part; but it is manifeltly known to fall out otherife; for the narrowneß of the Breaft happeneth chiefly hout the Armpits, and afterwards beneath the Chanel Bones; but the lower Ribs feem to be enlarged about he fides rather than ftraightned.

We answer, That the Five lower Ribs are not artilated with the Stern, neither do they make a perfect lircle; and therefore in no wife do they relate to re propounded demonstration; but the stretching them dependeth upon another caus, namely, the fulis of the Hypocondriacal parts. Let it likewise be oted that we affign not this for the chief caus of the L 2 visited viciated Figure, yea, we suppose that it conferreth very little towards it. And so we proceed to the second caus of this viciated Figure, which we also conceive to be a very flight one.

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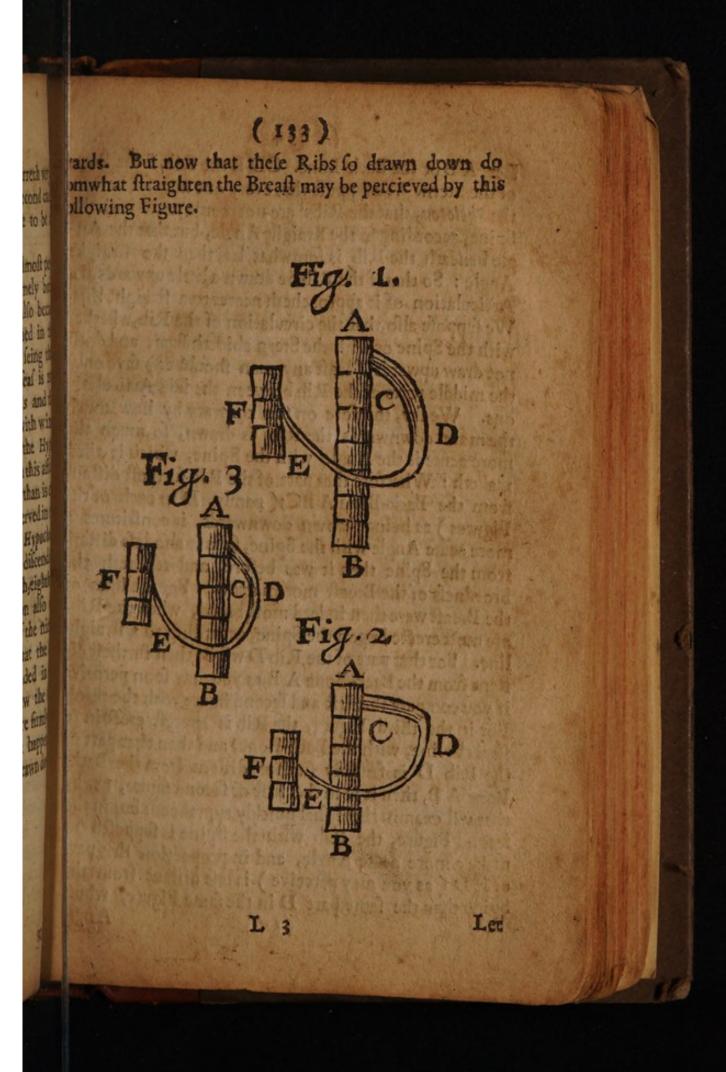
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In this affect the Hypochondriacal parts is almost perpetually observed to be full and ftretched, namely both in respect of the greatness of the Liver, and also becauf all the other Bowels almost which are contained in the bottom of the Belly are fufficiently large; feing that as hath been laid, the first effence of this Diseas is not rooted in them. And laftly, Becaus the Guts and the Ventricle are usually more or less diftended with wind. But now from that fulnels and extension of the Hypochondriacal parts we may juftly collect that in this affect the Ribs are drawn downwards a little more than is expedient. For the greatest extension is here observed in the oblick Muscles that are extended beneath the Hypochondriacal parts; Now the Muscle obliquely discending hath toothed heads failned to the fixth, feventh, eighth & ninth Ribs, and the part of the broad tend on also ob lickly afcending is adjoyned to the grizles of the ninth tenth, and eleventh Ribs. Wherfore feing that the fair Muscles are almost pertually too much extended in thi affect, they must needs in some manner draw the fair Ribs downwards, and feing all the Ribs are firmly fa Itned together by the intercostal Muscles, it happenet that in this affect al the Ribs are fornwhat drawn down

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Let A B be the Back-Bone. CD E the Rib.F the Bone of the Stern. We suppose that every one may see here in the Skeleton, that the Ribs' are not conjoyned with the Spine, according to the straight Angle, but that the Angle beneath the Rib is somwhat less then the straight Angle : So that if the Rib be drawn a little upwards, the Articulation of it approacheth neerer to a ftraight line. We suppose also, that the circulation of the Rib, whether with the Spine or with the Stern abideth firm, and doth not draw upwards (leaft any man should er) fave only the middle parts of the Rib between the faid Articulations. We fay, therfore on the contrary by how much the more downwards the Rib is drawn, so much the more acute is the Angle with the Spine, which it then maketh : Wherfore that part of the Rib furthest distant from the Back-Bone A BC; (namly, D in each of the Figures) as being thrown downwards, it constitutes a more acute Angle with the Spine, so is it also less distant from the Spine then it was before, and rendreth the broadnels of the Breaft more narrow. For the fides of the Breast were then indeed most broad, when the Ribs are most erected upon the Spine, according to a straight line. For that part of the Rib D wil be then furthest diftant from the Back-Bone A B, as you may foon perceive if you compare the first and second figure with the third. For in the third Figure, the Rib is exprest erect in a straight line, with the Back-Bone, and then that part of the Rib D is sensibly further diftant from the Back-Bone A B, then it is in the first or second figure, as he that wil examin them, shal quickly apprehend: but in the fecond Figure, the Rib with the Spine is supposed to make a more acute Angle, and in proportion that part of it D (as you may perceive) is less distant from the Spine thar the same part D in the same Figure, whole Angle

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Angle is supposed to be less acute ; and yet that is much less diftant from the Spine, then in the third Figure, whose Articulation is crected to a straight Angle. We infer therfore, that the Ribs, when they are drawn upwards, do amplify the Breast fidewise, but when they are drawn downwards, then they straighten the Breast on the fides.

This is further confirmed in that, becaufe at fuch time when the Breaft is dilated; namly, when the breathing is rightly performed, the Ribs are drawn a little upwards by the Arength and force of the Intercostal Muscles; and when the expiration is performed; namly, when the Breaft is contracted, the fame Ribs are drawn back again. downwards by the help of the oblique Muscles of the Abdomen. Any man may observe this in himself or in iny other man especially in great inspirations and expirations. For in a vehement infpiration he shal plainy perceive at the fame time to be lifted upwards, and withal to enlarge the breadth of the Breaft; but in a vehenent expiration he shal feel the Ribs as it were bowed lownwards, and at the fame time contracted inwards. Neither of these things could happen, unless the positiin of the Ribs were, fuch, as that those beneath in respect of the Spine, should make an acute Angle, and being nore depressed, should make it fo much the more acute, und by confequence the Breast, should be then most traightned; and on the contrary being lifted upwards, hey should apprach neerer to a straight Angle, with he Spine, and fo extend the fides of the Breaft. We conlude therfore that the Ribs in this affect ar drawn lomvhat downwaads, and that the Breaft is contracted on he fides, by reason of the plenitude and tensity of Hypobondrical parts ; although we grant as we have intimaed above, that this cause is not so confiderable, that

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we should attribute any great part of this Diseal unto it. Be this therfore the third, The Cauf of this vitiated Figure of the Breaft, Is a lateral growing of the Lungs in the Pleura, in this Difeaf especially, being confirmed it is most frequently observed to happen. Doubtles fuch an adnascency doth restrain and interrupt the motion of the Ribs outwardly, wherby the Breaft is laterally dilared. For if the Rib, under which this adnascency lieth, should endeavor forcibly to remove it felf, from the cenzer of the Break, there would be danger of pulling the Lungs that grow to it, or the Pleura it felf from the ribs with intollerable pain. For although the Lungs upon the ingress of the ayr admit an easy extension, according to al the parts therof, yet when they fal down, or are ftuffed with thick humors (which most frequently happneth in this case) they scarce admit any notable distention, without diffolving the unity either of fom Veffel, Membrane, or the fubitance of the Bowels themfelvs. Moreover, whilst we confider that in found bodies the Lungs are very rarely laterally divided from the Pleura; and but in those parts only of the cheft, which were to be expoled to motion at a confiderable distance ; namely, the Back, the Stern, the Mediastinum (that is the Membranes that divide the middle of the Belly) and perhaps the middle parts of the Diaphragma, orc. We conceive that wife nature did this deliberatly and with defign ; namly, least their connexions should either offend the dilitations of the Breaft, or render the Lungs themselvs obnozious to those kind of calamities. However it be, it is scarce conceivable, but that preternatural growing rogether of the Lungs, with the Pleura more or lefs muft hinder and retard the free spreading of the Ribs towards the fides, and therfore it conduceth a little at least to occasion the narrownels of the Breait.

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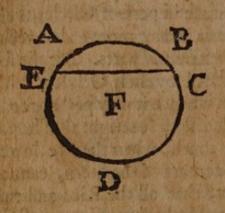
e Men I perha concen i defiet fiend o hende werith grown Riss :

Be this the fourth, The cauf of the vitiated Figure aforefaid, is an unequal nutrition of certain parts of the Ribs in respect of others. And this cause we affirm to be much more effectual then the reft, to procure this Symptom. Which that we may demonitrate, we affert first, that the feven uppermost Ribs do chiefly, if not folely, conftitute this Figure of the Breaft : for the five lowermost, as they are not immediatly conjoyned with the Stern ; So neither can they in any manner point, or elevate the Stern. Ad alfo, that feing (as we have already shewed) they do not close in perfect Circles, their Figure is eafily movable, that it may more or lefs yeeld to the fulnels of the Hypochondriacal parts. But the feven upper Ribs are Articulated by their Grizles, with the Bones of the Stern: from whence it may perhaps com to pals, that they do form what lift up foreright thof bones of the Stern, which they do touch, when the five lower Ribs being deprived of the contact of the Stern, cannot effect it. Secondly, We affert, that all the Ribs, and not only the five lowermoft; but also the feven uppermoft do admit an equal nutrition in this affect, and that they are more nourished in one part then in another, & therfore that they are more extended in length by that, then by the other, which is more sparingly nourished: and indeed that they grow more on that fide in which they are conjoyned with the Griftles of the Stern, and that they are lefs and more flowly lengthened on the other part, namly, the Head or top, wherby they are fastned to the Regions of the Back. The Reafon is, becauf the forepart of any Rib is more foft and spongy, then the hinder part of it, as any man may make tryal in any Creature. Seing therfore (as it is clear by what hath been faid) that the lofter parts of the Bones do in this affect more eafily receive their aliment and augmentation, then the har-

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der and more folid, it followeth that the foremost parts of the Ribs which are most fost, are more lengthened than the undermost. Thirdly, We affert, that in a Body of a Circular or Anulary Figure, if one part of the Ring be more lengthened than another, the other parts must needs give place to this increas, or elfe that part fo unequally lengthened, wil either outwardly hang out, or be inwardly knotted, either upwards or downwards, and be bent either one, or many of these ways. This



we thus demonstrate. Let the Circle or Ring be A B. Let the former parts of it be supposed to be lengthened from A to B. But the other parts of it ; namly, C D E to remain in their position, and not at al to yeeld to the faid lengthning. These things being supposed, the lengthened portion of the cirAT OU

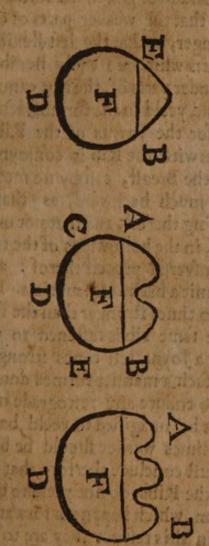
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cle, namely, A B muft needs be either lifted up outwards, or deprefied inwards, either bent upwards or downwards or varioufly: For otherwife the diftance between the limits of the ftring F would not fuffice to contain that portion of the Circle now lengthened, the figure of the Bow being changed. For thole limits did only fuffice before ; therfore the Bow being lengthened, and not the ftring, or the tops and limits of the ftring, it cannot be, that the Bow fhould be to the ftring as before. It muft be changed therfore, the bending being made either outwards or inwards, or upwards or downwards, or many of thefe ways, as may be perceived by the Figures following. The firft Figure reprefents a Bow Bow outwardly prominent • The fecond, Inwardly, and the third varioufly bent and intorted. And indeed the first doth very fitly set out the Figure of the Breast viti-

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ated in this affect. For we have noted above, that the ribs articulated with the Stern & Spine do make a kind of imperfect Ring, and that they are in this affect fooner nourished, and lengthned in the foremost, then in the hindermost part, therefore in respect of the cause this Symptom fully and fitly agreeth with that Figure first described. Belides, we have suppofed that the parts of the Circle do remain firm : that also in this affect may be accommodated to the lateral and hindermost parts of the ribs For feing these grow much lefs then the formost, certainly, they may wel be supposed to be stable, unless, perhaps

fom may fay, that either the fides and hinder parts of the Ribs, by dilating themfelvs, or their Joynts, with which they are faftned with the turning Joynts of the Back, by fuffering the Ribs to be bended backwards, do yeeld fomiomwhat to that exceeding augmentation. But neither of these can be rightly faid. For first, the latter and hinder parts of any Rib as they are more hard and folid, fo are they likewise more ftiff and ftrong then the formoft; now it is ablurd to imagine that the weaker parts of the fame Rib can bend the stronger, or that the less flexible parts will yeeld to those parts which are eafily flexible. Wherfore the lateral and hinder parts of the ribs cannot be so bent, as that they should yeeld to the formost lengthened parts therof. As for the Joynts of the Ribs, doubtleffe that Joynt, wherwith the Rib is conjoyned with the turning Joynt of the Breaft, can by no means faffer the Rib to be bent fo much backward, as that it fould yeeld to the lengthning therof; and that not only because it is double; namly, in the hollowness of the turning Joynt, and in the transversal process therof : and therfore very unapt to permit a backward motion. But chiefly, because it is even ten times ftronger than the formost Joynt, wherwith the same rib is fastened to the Bone of the Stern. Now a Joynt ten times ftronger, and withal double, and in fuch a manner formed double that it is altogether unapt to endure any retrograde motion, cannot by any means be imagined to yeeld backwards, least the Joynt ten times weaker should be bent formwhat forwards. We must conclude therfore, that the lateral and hinder parts of the Ribs do not yeeld to that unequal production of them, which happneth forwards, and by confequence, that in this respect they are to be accounted firm ; and therfore that unequal lengthning, mult needs change the figure of them, on the forepart; and that by bending them thereeither upwards or downwards, or inwards or outwards, or diverse ways.

This bending of the Ribs here cannot be made either upwards or downwards, because the Ribs in regard of their

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their lat itude are unapt to be bowed either way. Ad alfo becaufe that they are firmly reftrained by the Intercostal Muscles in their position; so that without offers of violence to these Muscles, they can scarce be bent, either upwards or downwards.

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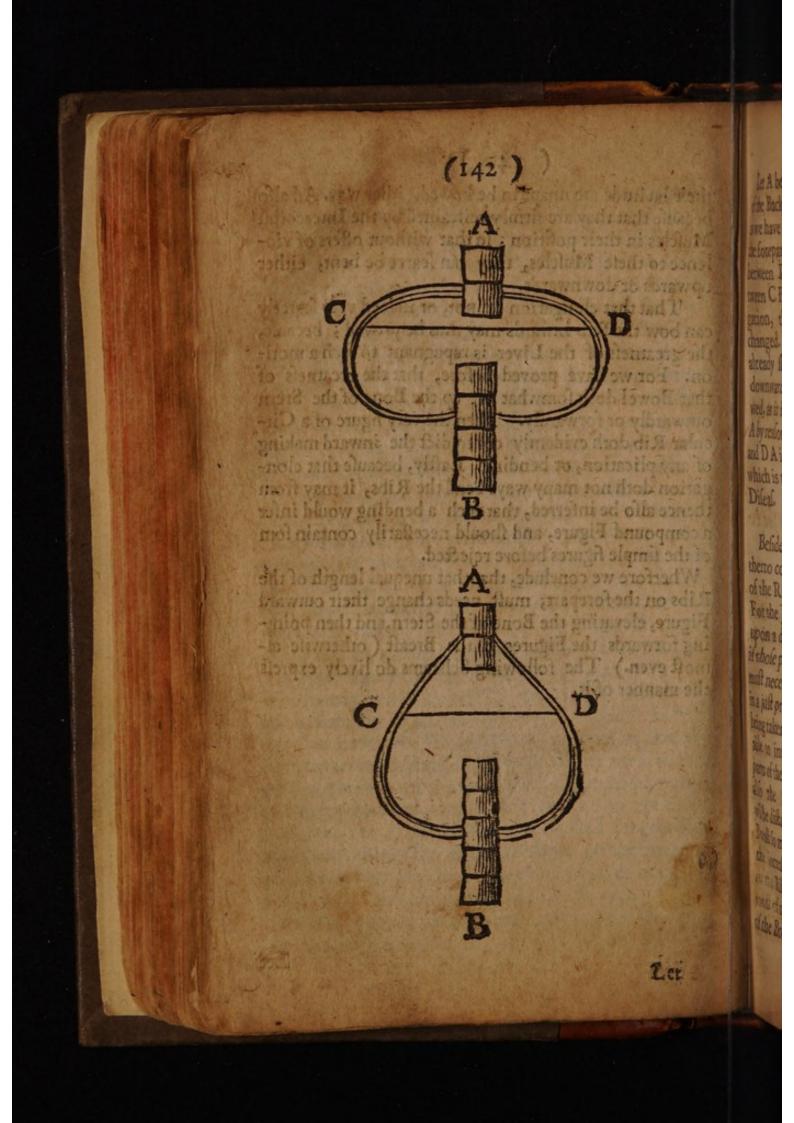
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That that elongation cannot, or indeed very fcarcely can bow the Rib inwards may thus be proved ; becaule, the greatnels of the Liver is repugnant to fuch a motion. For we have proved before, that the greatnels of that Bowel doth fomwhat lift up the Bone of the Stern outwardly or forwardly. Then the very figure of a Circular Rib doth evidently contradict the inward making of any plication, or bending. Laftly, becaufe that elongation doth not many ways bend the Ribs, it may from thence also be inferred, that fuch a bending would infer a compound Figure, and should necessarily contain som of the stern figures before rejected.

Wherfore we conclude, that that unequal length of the Ribs on the forepart, must needs change their outward Figure, elevating the Bone of the Stern, and then pointing forwards the Figures of the Breast (otherwise almost even.) The following Scheams do lively express the manner of it.

Let



Let A be the Bone of the Stern, B the turning Joyents of the Back. C and D the two oppolite Ribs, which is we have faid do make a kind of Ring. Therfore if the forepart of the Ribs; namly, between C and A and between D and A be lengthned, and yet the parts beween C B and D B are no way answerable to this elontation, the figure of the Ring must needs be outwardly thanged. Therfore feing that the Rib is, (as we have dready shewed) unapt to be bent either upwards or lownwards, or inwards, it must needs be outwardly bowed, as it is express in the second Figure, wher the stern A by reason of the elongation of the part of the Rib CA and D A is represented, as if it were outwardly pointed; which is the very vitiated Figure of the Breast in this Difeas.

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Befide the caufes of the narrownels of the Breaft hitherto commemorated, we can here ad the Imal increase of the Ribs between C and B and also between B and D. For the Just Latitude of the breast doth chiefly depend upon a du augmentation of those parts of the Ribs. For if those parts of the Ribs do grow to a just length, they must necessarily dilate the Breast unto the Ribs almost in a just proportion, that little of the narrownels only being taken away, which the former caules alone were able to introduce. For by how much the more those parts of the Ribs are lengthened, by fo much the more also the Lateral part of the Rib D and the part C wil be distant from the Back-Bone B, and wil make the Breaft fo much the broader. On the contrary when upon the increal of the other parts of the Body, those parts of the Ribs are but little, or not at al augmented, they muit of necessity be laterally less distant from the center of the Breaft then is meet, and therfore the Breaft must

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be straightned towards the fides. For the fides of the rib C and D are fo much the lefs diftant from the Back-Bone, and the center of the Breaft, as the parts of the Ribs between C B and D B are lefs lengthned. And let thefe things fuffice to have been spoken concerning the narrownels and acumination of the Breaft in this affect: With which we put at last an end to this disquisition of the Organical vices occurring in this Difeas.

CHAP. XIV.

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The Secondary Essence of this Diseas in the Animal Constitution.

* Aving put an end to the examination of the H & Natural and Vital Conftitution, vitiated in this affect, it now remaineth that we make enquiry into the Animal Conftitution. And we have already affirmed, that no primay fault doth here occur, and that it is a part of the primary Effence of this Difea? But whether there lurk in it any fecondary vice, that we fhal now examin.

But scing that neither the Ancients nor the Modern Writers, who have written of the Animal Faculty, have made any mention of the Animal Constitution, nor indeed so much as once attempted a description of it : It may very justly be expected from us, who acknowledg such a Constitution. And seing som wise men do disfent from that description, which may be deduced from the

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e opinion of Antiquity, and the common opinion cohrning the Animal faculty, and otherwife expounding the matter do fubstitute a formwhat different descriptit, we thought good to offer both to the Readers conderation.

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According to the former and vulgarly received opiion and defcription of the Animal faculty, the animal onftitution is that affection of the Body which confieth in the generation and due motion of the Animal pirits. Now by the due motion of the Animal Spits they understand the excursion of them from the rain thorow the Nerves like lightning, and again their course back to the Brain, whereby they declare unto what is perceived by the Organs of the outward Sen-

Others (as we have faid) do otherwife explicate this atter. They grant indeed that the Animal conftituti-1 doth include the generation and deftribution of the nimal Spirits but they fay that that fwift motion of e Flux and Reflux of the Animal Spirits like lightng, is inconceivable in the Nerves, and if it be not profitable, yet certainly it is very little neceffary to eablish the animal faculty. But instead of this they bititute in time of waking a certain contractive moon, of a moving endeavor of the very substance of e Brain, of the Spinal Marrow, of the Nerves ifing from thence, and of the parts into which they re destributed. And this motion or endeavor proneeth (lay they) a certain Tenfity in the aforefaid urts, by whole force all the alterations imprinted in ofe parts by any objects, are communicated to the ain. For as in a Harp when the ftrings are ftretched a just pitch, if they be stricken in the most gentle anner at either end, that motion in a moment, at leaft

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least a Physical one, runneth to the other end; so they likewise affirm that any Nerve being moved which is duly ftretched without the Skull, that motion is extended to the Brain it lelf by reason of the continuity and Tensity of the said parts, and there fixeth a certain impreffion conformable to the cauf thereof. But in time of fleep they suppose the Brain, the Spinal marrow, and some of the Nerves to be somwhat loosned. And indeed they fay perpetually and fimply that the foremost connexions of the Spinal Marrow with the Brain remain loof continually during fleep; but they grant that the hindermost connexions with the Cerebethi are · fomwhat extended, as in Night-walkers, and fo by that means they do in some fort discern outward objects, but they judg not of them by common fense, but as it were reflected from the memory to the Fantasie. Neither do they suppose it necessary that all the inferior parts of the Spinal Marrow, and therfore the Nerves from thence proceeding should be perpetually loofned during fleep : seeing that most Birds fleep standing upon their feet; feing that respiration in time of fleep doth presuppose the Tensity of some Nerves; and lastly, feing where fleep first steals in, the uppermost Nerves an wholly loofned before the neathermost. As for Dream they conceive that they proceed from a various and chanceable agitation and commixture of divers imprel fions treasured up in the memory, which are now again freshly perceived by reason of a retained Tensity in son parts of the Brain. But when in deep and profoun fleeps no dreams are reprefented, then they fay that th whol Brain is looined.

Now whether the former opinion or this latter b most agreeable to truth, for the present we do not much care; Neither do we here undertake to determine this Contro-

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Controversie, seing that the Animal faculty doth exerife his function both waies, from the fame caufes, and hat the secondary vice doth happen by this affect in the inimal. Conftitution almost after the same manner. or first, as for the generation of the Animal Spirits, hether the former or the latter opinion be true, it wil e all one ; becauf we find no fault in the Brain (unlefs erhaps some other Diseas be conjoyned) wherin each pinion supposeth the Animal Spirits to be generated. or we have shewed above that the Head ought not to e numbred among the first affected Parts, and that the nternal and proper actions therof are not viciated in is Diseal. Then secondly, As for the destribution of ie Animal Spirits, whether it be perfected backwards nd forwards by that rapid and fudden motion like ghtning, or by a motion only made forwards and that bo gentle and flow, commonly the fame fault occurreth h this Difeaf.

For first, Seing that that supposed rapid motion of ne Animal Spirits is caused by their 'passage into the rst affected Parts, namely, through the Spinal Martow ithout the Skul, through the Nerves from thence proeding, and through the parts into which those Nervs te destributed; and feing that all these parts in this feet do labor with a cold diftemper, with a paucity nd dulnels of inherent Spirits, the due swiftnels of that notion must needs be forwhat retarded. For a cold diemper, as also a benummedness and penury of. Spirits re repugnant to any motion, excepting a constrictive; ome may fay that the opinion propounded in the first lace doth suppose a wonderful activity and subtility of ae Animal Spirits, wherby they can eafily overcome his repugnance. But, however it may be, feing that the arts react through which the Spirits have their passage, M 2 and

and labor to communicate their coldness and dulness to them, they must needs in some degree retard that activity of the Spirits, leffen their fubtility, and formwhat intercept that expedite transition. Wherfore this opinion being supposed as true, the Animal Constitution will be viciated in this affect, in regard of the retundation of that motion of the Spirits. And that fecondarily, feing that this motion is not interrupted by the primary fault of the Animal Spirits, but by the fault of the first affe-Eted Parts, as hath been faid in like manner in the Opinion last proposed, wherin the motion of the Spirits is supposed to be peaceable and gentle, they must needs whilft they are fomwhat flowly transmitted through the first affected parts, contract some viciofity from the depraved inherent Conftitution of thole parts, for the fame Reafons which we alleaged in the Question immediatly preceding. It will be therfore according to this Opinion alfo, a Secondary vice in the destribution of the Animal Spirits,

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Again, As for the Tenfity of the very lubstance of the Brain, of the Spinal Marrow of the Nerves and the Nervous parts in time of waking, which is supposed in the latter Opinion before propounded, there must needs be some defect of a due Tensity in the Spinal Marrow without the Skull, in the Nerves arising from thence, and in the parts unto which they are destributed. For first, A cold and moist diftemper is repugnant and advers to that due Tensitiy, so also is that dulnels and penury of inherent Spirits; wherwith the Parts are without controversic rendred flothful, and less apt to perform the Anima! Actions ; the contrary wherof happeneth, when the aforelaid parts obtain their due Tentity. Secondly, It is manifest by what hath been faid, that the Tone of these parts is somwhat viciated in this affect,

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fect, by reason of their exceeding loosnels, flipperinels, finels, weakness and internal lubricity, which qualities most evidently enfeeble the just Tensity of the faid Although therfore that the Brain in this affect arts. for his part yield a due and just influx, yet it is scarce offible, nay it is altogether impossible, that it should mmunicate that Tenfity in a fufficient degree to the Spinal Marrow without the Skull, to the Nerves om thence proceeding &c. because of the diftemper, nummedness and penury of the inherent Spirirs. hirdly, The Symptoms in this Diseaf that relate to the nimal faculty do most clearly confirm the fame thing. or Children afflicted with this Diseal do from the ry beginning therof (if they be compared with others the same age) move and exercise themselves very akly, and are less delighted in manly sports : but upthe progress of the affect, they are averl from any hement motion, as they ftand upon their feet, they el, wave, and stagger, seeking after somwhat to suport them, and can scarce go upright; neither take they, easure in any play unless fitting or lying along, or ien they are carried in their Nurses Arms : Finally e weak Spine is scarce strong enough to bear the burn of the Head, the Body being fo extreamly extenued and pined away. All which things do abundantly monstrate that the Tensity of the parts subservient to otion is less rigid in this affect than is justly requisite time of waking. If therfore that due Tenfity in ne of waking be a part of the Animal Constitution, hich we here suppose, that being viciated must withit all doubt necessarily constitute a Diseas in the Anial Constitution; and feing that this fault hath no imary dependance upon the Brain it self, but upon e inherent Constitution of the first affected parts, it ought M 3

ought in all Reason to be reputed a Secondary fault in respect of the Animal Constitution.

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Yet here we meet with a scruple. Som may demand why the sens as well as the faculty of motion is not with ated in this affect? The reason is plain, a far greate tenfity, strength and vigor of the Nervs is required to exercife the motive then the fensitive faculty. For almost the gentlest motion of the Nervs is sufficient for sense but not for motion. So you may observe in the motion of any Joynt, that the Muscles which move it are ver hard and stiff, but that hardness being remitted, yet th sensation is easily performed. Nor doth that any wa hinder, because that somtimes in the Palsy the sense i fomwhat stupified, and the motion remaineth : for th Palfy is an affect very different from this; for in tha the primary fault refides in the very Animal Constituti on, therfore it may lo fal out, that both the fense and th motion may be equally affected. Befides, when perhap one Nerve doth want the du influx of the Brain, and ano ther which is extended to the muscles of that part dot enjoy it, it may be, that for this caufe also the fenfe may be abolished, and yet the motion may continu; although this cafe is not fo frequent, and that the motion is mon usually taken away, the fense remaining. But we have faid enough concerning this matter. And thus at length we have produced those things which we have meditated of the integral Effence, both primary and fecondary o. this Difeal ; and that with as much perspicuity as a matter lo difficult and unlearcht into, would bear : In the next place we shal address our felvs to the examination of the caules of this Difeaf.

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CHAP. XV.

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the Canfes of the Rachites. And first those things which concern the Parents.

*** E have largely explained above both the Pri-W & mary and Secondary Effence of this Difeafe. And indeed we have fufficiently demonstrated in the fame place, the dependance of the condary upon the Primary Effence. It may not therbre be here expected, that we should again purposely nd in particular discuss the causes of the secondary Efence, which we have handled before. It may fuffice that te have found out the causes of the secondary Effence. It is any cause do occur which at once, hath an influx s well into the primary or secondary Effence of the Dicas, we shal not refuse to take notice of it, by the way as re proceed.

But omitting al diligent fearch into the feveral kinds f caufes, we purpole to contract this out difcourf chiefy to two heads. The former containeth the Infirmities nd the difeafed difpolitions of the Parents, which pertaps have fo great an influence upon the Children, that hey fuppeditate, at leaft a pronefs to this affect, and iner an aptitude to fal into it, if they have not actually allen into it from their very birth. The latter compretendeth the acceffary caufes of this Difeaf; namly, those which happen to children after their birth.

Concerning the causes of the first kind we meet with Question at the first entrance : How and whether this Difeas may be said to be bereditary? That we may he more successfully proceed in the determination of M 4 this

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this queffion, an hereditary Difeaf muft be diftinguifhed into that properly, and that improperly fo called. And indeed an hereditary Difeaf properly fo called, is ever fuppofed to be preexiftent in both or one of the Parents, and from thence to be derived to the Progeny. But an hereditary Difeaf improperly fo called, is not fuppofed to be preexiftent in the fame kind, either in both or one of the Parents; yet the fame fault muft always neceffarily precede (perhaps altogether of a different kind) at leaft in one of them, by vertu wherof a certain difpofednefs is imprinted in the children, wherby they are made obnoxious to fal into this improperly hereditary Difeaf.

Moreover, An hereditary Difeas properly so called, is twofold; either in the conformation, as when a lame Perlon begets a lame; a deaf Father, a deaf Son, or a blind a blind ; or in the fimilary Conftitution: as when a Gowty Father begets a Gowty Child. It is to be noted, that in the first kind, ther is an hereditary fault inherent in the first affected parts of the Conformation. But in the latter, there is no neceffity that a Difeaf of the fame kind with the Difeaf of the Parents, should be actually inherent in the Embryon, from the first forma-But fuch a disposition imprinted by one or both tion. of the Parents is fufficient, which as the life is lengthened may be actuated into the fame, by the concourl ot other intervening caules. Again, an hereditary Difeal improperly to called, may be likewile twofold; namely, cither in the Conformation, or in the fimilary Conffi-In the formation, as when neither of the Patution. rents is blind, pore-blind, lame, &c.yet have begotten a Son blind, pore-blind, or lame, by the very fault of the formation. For in these cases, that very fault which is fentible and confpicuous in the Iflu, flowed from 10m fault in the Parents, although perhaps of a different kind

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kind, and so it may be called, though improperly an hereditary Difeas. In like manner in the similary Conflitution of the Issue there may reside an hereditary Difeas improperly so called, as when a Melancholy, sedentary, or an intemperate Parent, begetteth a Child subject to the gowt, or the *Cachexia*, although perhaps the Parent was never troubled either with the one or the other.

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or bea engthe Dille Contr Con These things being thus premised, we approach neerer to the resolving of the Question. And first, we affirm that this Diseas is not comprehended under the former species of an hereditary Diseas, properly so called. For that consistent in the formation : but this Diseas according to its primary Effence, is a similary Diseas, as we have before demonstrated, and very rarely bewrayeth it felf from the very Birth, much less from the very conception and formation. And for the same Reasons, we also affirm this Diseas belongeth not to the former kind of herditary Diseas improperly so called. Which after a like manner consist in the formation of the parts, and are begun presently after the first formation.

Secondly, We fay, that fo it may com to pafs, that this Difeaf may fall under the fecond fpecies propounded, of an hereditary Difeafe properly fo called ; namely, that which confifteth in the fimilary Conftitution. Yet we cannot affirm this as certain and undubitable, becauf the Children which we have hitherto known to be afflicted with this Difeaf, have not lived to fuch maturity of years as to beget Children : and therefore we cannot otherwife fuppofe, then by probable conjecture, whether or no their progeny fhould be infected with this affect, as it were by right of inheritance.

Thirdly, We fay, that in many Children this Difeaf doth directly fal under the fecond species of an heredita-

(154) ry Difeal improperly to called. For according to the primary Effence of it is a fimilary Difeaf, and although it hath not yet been fo long and fufficiently discovered unto us, that we can determin the effects of it, how they wil operate in the Progeny, yet frequently in the prefent progeny we have observed certain Rudiments of this affeft to have been derived to many from, one or both of the Parents. So that although neither of the Parents were in their infancy or child-hood afflicted with this Diseaf, yet som pronels and disposedness to this Diseas hath prefently appeared in their little Infants, especially in those whole Parents before coition were predisposed by fom vitiolity of body, or error of life, to transmit this pollution to their Ifiu; but those defilements of the Parents which dispose them to propagate Children obnoxious to this affect, we shal by and by reckon up, in their order ; from whence also a higher confirmation of this affertion may be deduced.

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Fourthly, We lay, although the affects of the Parents do frequently imprint a certain propension in the Islue, to fal into this Diseas, so that this Diseas may be therefore reputed in the lecond acception of an hereditary difeal, improperly fo called ; yet it very rarely happneth that this Diseal doth actually break out before the birth of the child. One amongst us attesteth, that once, and only but once, he faw a Child new born invaded with this Diseas. And in this Child the Back-bone, and the neck were fo weak, that they could not fuftain the weight and greatness of the Head, within three months after it was born, the Child dyed. Wherby it is apparent that he was grievoufly affected. It feemeth confpicuous by what hath been faid, that Infants, however they may frequently borrow from their Parents a disposedness to this affect, are most rarely and feldom troubled with it be-

before they are born, but if at any time they are fo prematurely afflicted, that then the affect is most vehement and grievous. Now a reason of the event of both these may be demanded. To the former therefore we fay, that this Diseal doth partly confist in a cold distemper of the first affected parts, and indeed an unequal one as namly, being very cold in the faid parts, respect being had to the temper of the Head, and the Bowels and that hereupon that unequal coldness of those parts, is of great moment in this Difeal, and that also in respect of the very inequallity. For this contributeth much to that unequal and deficient distribution of the Vital Blood to the parts first affected. Seing therfore at such time when the Embryon is carried in the womb, this inequallity of the temperament of the first affected parts may be much corrected and averted by an equal heat, wherby the womb may on every fide embrace, and cher ish the body of the Embryon, it followeth that the gestation doth very much drive away this Difeaf, at least retard the invation of it. For the body of the Womb being all about equally warmed with an even heat, and equally embracing and cherifhing al the parts of the Embryon, doth not eafily permit one part to wax colder then the reft, and by that means to be cherished with a defective and sparing afflux of the Vital Blood. Wherfore leing that that very inequallity of heat and comfort, are Effential parts of this Difeal, and without which this Difeal cannot confift, it is no wonder that the womb ftrongly relifting thele parts of the Difeaf, and the invation therof, doth for the most part protract it, at least during the impregnation.

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As for the latter part of the question propounded, namly, Why Infants, who before their birth were infested with this Diseas, are more grievously and dangerously afflicted? We say, according to that Aphorism of Hippocrates

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states, that a Difeaf which holdeth the leaft congruity with the condition of the Dilealed, is more dangerous then the contrary ; as a Feaver threatneth more danger to an old man, than to a yong, and in the winter, then the fummer. For a Difeal that hath fom correspondence & conformity with the condition of the Dilealed, requireth a flighter caul for its introduction : but that which is contrary therunto argueth the magnitude of the caul, which notwithstanding refistance, and opposition, will produce his effects. In the present Diseas therfore if the equal and impartial heat of the womb cannot reftrain the propenfity of the Embryon to this affect, but it wil fal into it, lom vehement caule mult needs be imprinted by the Parents, and the feminal Principals extreamly weakmed. I herfore there is little hope when the Embryon aboring with this Difeaf is born, neither wil a prudent Phylitian attempt the cure without fom Prognostick of imminent danger. Moreover, instead of a Corallary, we substitute another Rule, having fom affinity with the former, although perhaps it be not yet certain and approved 3 namly, that Children by how much the fooner atter their birth they are invaded with this Difeaf, fo much the more difficulty (caterus paribus) are they delivered from it. And let these things suffice concerning the Queftion propounded.

We wil now apply our felvs to the division and reckoning up of those causes which on the Parents parts may produce this Diseas. Som of these faults in the Parents relate to the Generation of the seed, where of the *Embry*on confisteth, others have reference to the *Embryon* now conceived, and yet born about in the Womb. The faults of the Generation of the seed proceed either from the man or the woman, or from the whole Body, or from those parts onely which are dedicated

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by nature to Generation. The faults of the Parents depending upon the whole Body have the ftrongeft influence into the Child, because it transmitteth such natter to the Generation of the Seed, as is unapt for hose parts dedicated to that office. We purpose not here to particularize the several faults of the matter of the Seed, but to instance in those alone, which conspire to entitle the Progeny to this Diseas. These we reduce to four Classes.

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The first Classis containeth a cold and moist distemper of the matter, wherof the Seed is Generated. This thiefly refulteth from a cold and moift diftemper of the Parents, unto which we also refer a predominancy of il uice, especially that which is Phlegmatick and waterifa dfo a Cachexia, and Dropfy, and perhaps the Greensickness, which fom cal the white Feaver, not sufficienty fubdued before conception; al which affects manifesty help to conflitute a waterish matter, both cold and noift in the Genital Parts, which is not only in geneal lefs apt for the Generation of the Seed, but it partiularly inclineth to a condition of this Discal; a part if whole primary Effence confifteth in that very cold nd moist distemper, as we have already proved. Morewer, we may perhaps hither reduce the Scurvy, the rench Pox, & the Jaundice, in which affects the Blood Ifo is polluted with filthy excrementitious humors, and orrupt exulcerations, which cannot eafily be changed nto laudable and fruitful Seed.

The fecond Claffis containeth containeth the penuy of Natural Spirits, wherby the good Seed fhould be Generated. For a Spirituous Seed cannot flow from fuch kind of matter. The caufes which fuppeditate that mpure matter to the Parts of Generation are the dried nd extenuated Bodies of the Parents, wafted either by long

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long abstinence, or by fom vehement evacuation, as by vomits, lasks, Lienteries, Dysenteries, Hepatical Fluxes of long continuance ; by an exceffive Hemorrhage from any part, by violent fweatings, or any Chronical Difeales, which wasteth the strength and is not repaired before Coition : especially, a Consumption, a He-Aick Feaver, an indigettion from any kind of Cauf. Laftly, from a defective and imperfect Concoction of the last aliment, or the fault of any part. For in fuch cafes the matter which is separated to the parts subservient to Generation, is destitute of a competent plenty of Natural Spirits, wherupon the Parts preparing and concocting the Seed cannot perfectly correct this defect, and ejaculate fuch Seed as is fufficiently abounding with Spirits. Seing therfore that a confiderable part of this Difeaf confifteth in the paucity of Natural Spirits, it cannot otherwise be, but that the issue propagated by fuch a crude and almost Spiritles Seed, should be tainted with a certain Natural Propension to this affect, even in their first rudiments, which afterwards upon the concurrence or other causes, is eafily deduced into Act.

The third Claffis containeth the benummednefs or flupour of the matter transmitted to the Generative Parts, wherof the Seed is produced. For not only the folid parts, but also the whol Mass of Blood, and the humors therin contained are obnoxious to that fame flupour. And from hence it is that Physitians being to render the causes of Difeases, do use to fay, that the humors and also the Blood are too fluid and moveable and unduly vehement; somtimes on the contrary that they are unapt for motion, less fluxible, and unactive beneath a Mediocrity, & in respect of this thing also a certainMene is most wholsom : but more things relating hither may be seen above. We will here only prosecute those faults

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of the Parents from whence this defect of vigor and a-Rivity in the matter of the Seed doth arife. These herfore are first the fost, loof, and effeminate Constituion of either or both the Parents, indisposed to ftrong ind Masculine exercises. Secondly, an overmoist and ull diet and epicurison, obnoxious to frequent crudities. Thirdly, A delicate kind of life abandoned to eal and oluptuousnels, flothful, and rarely accustomed to lapor, danger, and care. Hither you may also refer a toal defect of manly Exercife immoderate fleep, especialy foon after mate, and any kind of fleepings whatfoeter, a fedentary, speculative life, intent upon soft and jueint Arts and Sciences, as Poetry, Mulick, and the ike, to these may be further added a dayly frequenting of Comedies and other Plays, an affiduous reading of Fables, and Romances, and inftead of manly and laulable Recreations, a loof expence of time in Carding and Dicing. Hither also belong the neverfailing fruits of a lafting peace and plenty, fuch as fecurity, indiligence ind the like. All these enumerated faults do manifettly contribute a fhare to introduce a laziness and Effeminateness in the parts: Seing therfore that the Blood, ogether with the humors contained in it, doth in its irculation wash all those stupified parts, it cannot oherwife be, but that as it glideth along it must participate some such alteration; and seing that some portion of the transient Blood affected with this stupefaction, is transmitted to the Generative Parts, with the very matter wherof the Seed is Generated, it is easie to infer that that Child which springeth from such principals must inwardly contract at least some propension conformable to the fluggifhnefs, and flupour of its Native matter, and that that propension, after-Birth when the prefervation is taken away by the equal cherifhings of

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of the Womb, is by divers caufes without difficulty deduced into act, wherfore feing that fuch a dulnefs is a part of the Primary Effence of this Difeaf, it followeth that in fuch vitiated principals there lurketh a propenfity to this affect, derived from one or both of the Parents.

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The Fourth Claffis containeth the vicious Dispontions (if any fuch occur) of the Parents, who in their Childhood were infected with this Dife af. For thefe would transmit into the Children a continuation of an hereditary Diseas properly so called. But because, as we have faid, it is not yet manifest whether the Parent afflicted with this Difeal in their infancy shall beget children therewith affected; befides, becauf the faults of the Parents may be conveniently referred to any one of these Classes aforesaid, or to many, or indeed to all of them, it will be fruitlefs to infift longer upon Therfore having reckoned up the faults of the them. Parents which depend upon the whol Body, in the next place we proceed to their faults which peculiarly refide in the Genital Parts.

These faults are fomtimes a cold diftemper, somtimes a moift, when by reason of too much humidity they are loosned or weakned, wherupon they ejaculate either an unfruitful deed or such as is propense to this Diseas, somtimes those parts are infested with a virulent, vicious or waterish Gonorrhea, and they excern a Seed not sufficiently elaborated & the same must be faid of the white and red Fluxes of Women. Again, some things outwardly applied to those parts have reference hither; as Ointments of Hemlock and other Narcotical things, especially if they be often anointed with them, in like manner Oyntments that are incorporated with white or red Lead, Chalk of Lead, Litharge, Sugar of Saturn and nd the like, dayly and for a long time adhibited to tole parts. For fuch as thele blunt the activity of the therent Spirits in those Parts, and introduce a certain ulnels in them, which being communicated to the eed prepared in them disposeth the progeny to this af-

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At length we have finished our intended enumeratin, if not of all, yet at least of all the most principal sufes which happen before Conception about the Getration of the prolificative Seed, and have any concurince to produce this Difeas, or to dispose to the produion therof. Now follow the faults and errors of the lother in the time she beareth the Embryon in her lother in the time she beareth the Embryon in her lother in the time she beareth the Embryon in her lother in the time she beareth the Embryon in her lother the Birth.

First, There hapneth a cold and moist distemper of e Womb it felf, which (as were we filent is easily mafest to every one) may most readily be communicated the Embryon by the perpetual contact of the lomb of an and a second contact of the

In the Second place, All those things offer themselves hich suppeditate to the Embryon coude and impure tyces converted by excrementions and corrupt humors Read of laudable aliment. Hitherto principally bengeth the unwholfom and prepofterous diet of Woen with Child, especially inclining to moisture, cold-Is and the heaping together of crudities. The fame ings also happen by the imperfection and defect of e first or second Concoction, especially when they are ot excerned by vomit or some other evacuation of the rudities from thence proceeding, but are at length animitted with the Mothers Blood for the aliment of . e Embryon Befides, if a moist and cold Difeas, as cold and moift diftemper with the matter, an ill di-N gestion

gestion, a Cachexia or Dropsy, &c. do invade a womar with Child after Conception, it may thereupon easily happen, that the impure aliment also, which nourishest and cherisseth the Seeds of this Diseas, be dispensed to the Embryon.

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In the third place are to be reckoned al those thing that defraud the Embryon of du aliment, as any excel five evacuation, especially a lashing flux of Blood in a ity part's allo a rash opening of a Vein, or Phiebotom that exceeds in quantity. The fuckling of another chil may also divert the afflux of sufficient aliment from the Womb towards the Breafts. Hitherto likewife belonger mordinate failing, or any indigestion in the Mother, ny inappetency after meat, or defection concoction Moreover, an acute Feaver happing to a moman mi Child, besides other inconveniences, may allo defrai the Child of du aliment 5 fo also an Hectick Feaver.A these things do not only infer to the Embryon, a deject on of Vital Spirits, and a defective nourifhment, but a they cause a want of natural Spirits. For the Natur Spirits are walted and diffipated without due nouril ment, and are also destitute and disappointed of neces ry reparation. Seing therfore that a part of the Effen of this Difeal confilteth in the defect of Natural St rits, som disposition to this affect must need be b queathed to the off-spring from the caules aforefaid 419. & lastly, excessive fleepines of women with chi flothfulnels, eal, any vehement labor and exercise af Conception, do also contribute their share. For althou violent motions and actions of any kind are forbide to women in fuch caufes ; yet moderate labors, wat ings and exercises which offer no violence to the won or provoke to abortiveness, do not only conduce to health of the Mother, but in fom degree they drive

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ay that dulness from the Embryon, and augment the eat, vigor and activity of it. And thus we put an end the first Chapter of the causes of this Diseas before e Birth. Those which happen after the birth shall be e subject of our next examination.

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CHAP. XVI.

he Causes of this Diseas incident to Children after their birth.

E have noted in the precedent Chapter, that W Infants from their first Origin are seldom af-flicted with this Difeal, but by reason of the Causes there rehearsed, that they are freently affected with a natural disposedness, and propenn to the same. We shal now profecute those causes ich are apt to actuate that Natural disposition after birth, or newly and fully to produce this Difeaf. For nuft be known that the fame caufes which may actuat it predisposedness to this Diseas, may produce this Difanew, if they be sufficiently intensive in their dee. And therfore we confess that those children which prone to this Difeas from their Nativity are eafily ected ; but that other which are free from al Natural ruption fall not into the fame but upon more potent les ; and yet those causes are the same for their kind I differ only in the degree. We therfore thought it dlefs to speak of these things diffinctly and apart : it N 2 may

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may fuffice that we have spoken of them indefcriminate ly and together.

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At the very entrance a Question there is which in portunes a Refolution ; namely, Whether Contagic may be numbred among the caufes of this Difeaf, an therfore whether this Diseas in a proper and right u derstanding be a contagious Diseal, indeed he th confidereth this Difeas unknown to the Ancients, he it first invaded the Western Parts of England, and few years hath been fince dispersed all England ov will at the first thought eafily judg it to be contagio and to have been fpread fo far and wide by the infecti of it. But the matter will feem to be otherwife to h that will confider it more intentively, For althou this Diseas may in some manner endeavor to impr an affection like unto it self in other Bodies, ye fcarce advanceth to far that it can totally produce a I eal of the same kind. For perhaps it may in one sc flight inclination in another Body, yea, fomtimes haps it may accelerate or haften the invalion of an fect in a Body highly predisposed unto it, yet it can therfore deserve the Name of a Diseas properly co gious. For all Diseases conspire to change and affi late those Bodies which are neerest to themselves, that is not sufficient to denominate Discases cont ous. For to constitute a contagious Diseas properl called it is further required that out of it felf it pr gate a certain Seminal fermination of it felf, w fecretly infinuating it felf into other Bodies, may by grees introduce into those Bodies a Diseal of the Species. But this Diseas containeth no such ferme tion in its effence, neither is it secretly propagated a precedent emiffion of Seed from it felf which may print a Difeal of the lame Species in the adjacent

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For we have already often faid, That the first ef-S. ice of this Difeas confisteth in a cold and moist dimper, and in a dulnels and paucity of inherent Spiwhich affections if they endeavor to affimilate a-Bodies that are neer them, they attempt and undere it by open violence, and not by fnares and frauduce or a preimmission of secret little fires. In like nner if you reflect upon the Secondary Effence therneither the viciated Tone, nor the depraved Vital Animal Function, nor the Organical faults are. nd apt and fit in this affect to infinuate themselves o other Bodies, and to propagate their own Species. ally, if we will confult experience, the matter will ckly be vindicated from all doubt. For we frequentbserve Children either of the same age, or very neer the fame age, be brought up in the fame Houle, prof one or other of them is perhaps afflicted with Difeaf, whilft a third or many amongst them do ee it. Yea, We have known Children not only edud under one common Roof, and delighting in the tinual and mutual fociety of one another, but dayreeting at one Board and lying together in one Bed; rof one who hath been ill affected with this Difhath not infected any of his companions either by ling or lying together. Which could fcarce poffibly pen in a Difeal properly contagious. Wherfore ntagion being excluded from the Catalogue of this cal, we will address our felves to the finding out of 1 as are more true and unquestionable. We divide caules which produce this Diseas after Birth into Classes. The first containeth the errors which cure it in the use of the fix nonnatural things. The er comprehendeth the precedent Diseales of divers ds, which are wont very often to leave behind them

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them some Inclination to this affect.

As for the former Claffis concerning the abufe of the fix non-Natural things, fo far as they relate to this Difeal, feing that children are feldom difcompofed with any vehement paffions of the mind, and can thereupon ver difficultly fal into this Difeal. Again, in regard that the ufe of Venery appertaineth not unto them; we wi reduce and limit these cases to the five subsequent heads To the Air, also to what things soever extrinsfecally oc cur, or are applyed to the body, to meat and drink and such things as are inwardly received, to me tion and reft, to the kind and manner of life, to action and exercise, to fleep and watching; lastly, those things which are preternaturally retained in, or severed from the body. These several things we shal examine in the propounded order with al convenient brevity.

Of the Air and such things, as happen outwardly.

A cold and moift Air doth powerfully contribute this Difeaf. For feing that it doth more eafily fteal in the external and first affected parts in this Difeaf, th into the hidden and fenced bowels, it directly helpeth imprint in those parts that unequal; namely, that cc and moift diftemper. The conftitution of this kind Air, is chiefly predominant about the beginning of t Spring, at which time the Nurses ought to be cautic and circumspect. How they too confidently expose th children, which are subject to this affect, to the injur of the Air; as also when the Air is cloudy, thick, rais and ful of vaporous exhalations. Hereupon places no the Sea, great Marishes that are obnoxious to much rais and showers, and fed with a great number of Springs, is wont to be (cateris paribus) very fruitful of this affect

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In like manner houses neer the banks of great Rivers and Ponds or Meers are for this purpole condemned. Moreover, frequent bathing and washings with sweet vater, although they be applied actually hot, yet in rerard that they are potentially cold and moift, they are lso juftly culpable; for they do in fom fort communiate their diffemper unto the parts whereunto they are dhibited, and more or less caus a softmels and loofnels n those parts, and make the circulation of the Blood too lippery.

Hither we may also refer cold and moist liniments, as lo luch as are loofe and flippery, being too often connued in that tender age, especially about the Spine or te Origin of the Nervs : laftly, foft linnen cloaths, if tey be not wel dried, they cherish the roots of this Dial. For this caus amongst others, it hapneth that the hildren of poor people are the lefs obnoxious to this lifeaf, becaufe namely, for the most part they are enrapped in course cloaths, and woolly integuments, each f which doth rub and tickle the parts thereby exciting and augmenting the inward heat, and irritating a more pious afflux of the Vital Blood unto the habit of the ody, and are therefore very effectual to banish this Dial. But the foftned fine linnen doth neither irritate the eat into the external parts, nor laudably cherish it. For they chance to be for fom short space of time removed om the touch of the parts, they prefently loofe their armth, and at the next touch they conveigh a fense of oldness into the parts. Wherefore such linnen cloaths ing in the number of those things which are dedicated ily to extrinsecal application, and feing that they are irtful by their fole coldnes & foftness, we have referred em to this first Classes of causes, & the first part therof which . N 4

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which containeth cold and moist things outwardly oc-

In the second place the Air being infected with any particular infection, as noxious Metalline exhalations, which for the most part fight against the inherent Spirits of the parts, by a kind of venemous malignity, and do either extinguish them, or drive away and, diffipate them; withal they difiolve the Bone of the parts, and the pulfificative force, especially in the parts external, where they first happen, they at least diminish, if they do not weaken it, and affect it with a languidness. Thele things are principally caufed by exhalations from Lead, Antimony, Quick-filver, and the like. Moreover, ointments made of the fame, are almost alike perillous, if the first affected parts be frequently and unfeationably anointed therewith ; although perhaps these things do allo belong to the fouth title of this Claffis. Finally, we have observed som Children who have been anointed with Mercurial Unctions for the Scabs, to have fallen afterwards into this Difeal.

In the third place an Air vehemently hot and fubtle, extreamly attenuant and diffolvent, may likewife be numbred among the caufes of this Difeal, becaufe it allureth forth, diffipateth and confumeth the inherent Spirits. In like manner hot liniments and especially discufive withal, Chymical oils diffilled and not fufficiently corrected by the commixture of things temperate; fo these in such a tender constitution of the parts do eahly melt and refolve the Spirits into a volatile and Air thinnels, and by confequence infer a penury of Inheren Spirits: Hither also belong sharp, faltish, hot and dil cuffive Baths, especially, if they be unfeatonably and un measurably used, forr hele no less then the former d wafe and confume the Spirits. I could Fourth 11211174

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Fourthly and laftly, An Air filled with Narotical vapors or exhalations, and baths, fomentations and *Lemiments* made of Soporiferous and Narotical ingredients, as Hemlock, Henbane, Opium, Nightshade, and the like, and externally applied, are very fitly reducible, alfo to this Classis. For they easily introduce a benummedness into the first affected Parts, into which they first conveign their force. Which benummedness is not only it felf a part of the first Effence of this Difeas, but it also easily dulleth and diminiss of that part of the Secondary Effence of this Difeas, which consistent in the Vital Constitution, which thing we have already explained more at large. And thus much of things outwardly occurring.

Secondly, Of Meat and Drink, and things inwardly taken.

To this Title there belong first aliments of any kind which are too moist and cold, for these things manifestly cherifh the diffemper, wherin a part of the Effence of this confisteth. Hither therfore we refer most kind of Fish, and crude Meats which are not well prepared by Coition; also all those things whatfoever they be which caus a defect of concoction in the Ventricle. Therfore the feeding upon new Meat, before the former Aliment is concocted, is very hurtful for Children disposed to this affect; and in this respect, a plentiful Diet is altogether to be abandoned, and a thin spare Dict ought to be observed, for too liberal feeding doth overwhelm and choak the heat, and therfore mult needs accumulate many crude and raw humors. And perhaps this one may be reputed among the elpecial caufes,

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es, why this Difeaf doth more frequently invade the Cradles of the rich; then afflict poor mens Children. In like manner cold & moift Medicines taken inwardly, and alfo fuch as are laxative, and endued with an internal flipperinels, do manifeftly relate hither. For these things do not only infer a like diffemper, but they produce a *Relaxation* in the *Tone* of the parts, and affect them with an internal flipperinels, and in a word they render the current of the Blood through the first affected parts over flippery and eafie.

Secondly, Nourifhments that are too thick, vifcous and obftructive belong hither, efpecially becauf they interrupt the equal diftribution of the Blood. Hither we refer flefh hardned with fmoke, and feafoned with much Salt; in like manner Salt Fifh, and Cheefe almost of any kind plentifully fed on. Bread newly taken out of the Oven, and not yet cold; also almost all fweet things condited with Sugar, unless they are withal tempered withWine, or cutting, or attenuant. Obstructive Medicines likewife of any kind belong hither, unto which we may further ad fuch as are *Partotical*, and whatfoever being drank induce a benummednels into the parts.

Thirdly, Nourishments that are of an extream hot and biting quality, sharp, & corrosive, as old & strong Wines, especially being drank upon an empty Stomach, Meats also that are seasoned with much Pepper and aromatical Sawces, must be connumerated among the reputed caufes of this affect, For these things in such a tender consistence of the Parts, do easily feed upon and devour the inherent S pirits. The same thing is also affective by Medicines that are immoderately hot and discussive, yea, these are far more powerful to hurt, becaus they more quickly and forcibly spoil the inherent Spirits, than the prementioned Nourishments. Thirdly,

Thirdly, Of Motion, Reft, Exercises, and Actions.

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Motion and Exercifes, if they exceed a mean, they diffolve the Body of a little Child into a profuse Sweat, and withal they fomwhat diffipate the inherent Spirits of the Parts, and therfore for that reason they may confpire the introducing of this Difeaf : although we conceive it falleth out exceeding rarely, that Boys are infe-Ited with this Difeal, wherof we difcourf. But a defect of Motion and want of Exercise doth most frequently, yea and most effectually concur to the production of this affect. For the Spinal Marrow, and the Nerves from thence arifing, and the other first affected parts, serve chiefly for Motion and Exercises. A Itupidity therfore and fluggifhnels of those parts, is a cauf that neither their inherent heat is fufficiently cherifhed, nor that heat extenuated, nor the cold diftemper Itealing in banished, nor the excrementitious, and fuperfluous moistures expelled by a due transpiration, but it permitteth them to be affected with a certain foftnels, looinels, and internal lubricity, wherupon the Arteries also destributed unto them are faintly irritated, yield a dull and flothful Pulfe, neither do they render the parts fomwhat turgid or fwelled, but leave them lank and tubliding. By which means the circulation of the Blood becomes flow and lefned, and more flippery than is meet, the production also of the vital heat must thereupon be neceffarily be feeble and weak, all which confiderations do fufficiently evince that this is an efficacious caul of this Difeaf.

Fourthly,

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Fourthly, Of Sleeping and Watching.

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We grant that Children should sleep oftner and longer then Men ; yet if it be exceffive even in Child-hood the matter is the fame as in defect of exercise and motion. For fleep is a certain reft and privation of watchings or of the exercise of the fenses. But watchings confift in the very exercise of the senses, according to Ariftotle in his Book de Som. & Vigill. Wherefore the evils that we have described to arise from the defect of motion and exercifes, the fame also must needs happen from immoderate fleep. On the contrary, in that tender age, inordinate watchings are no less noxious. For they do not only retard the concoction of the aliment, but they likewife taint the Blood with a kind of acrimony, and confequently diffipate the Principals of the Natural Constitution of the first affected parts, and without difficulty introduce a defect of inherent Spirits.

Fiftly. Of things preternaturally caft out and retained.

All the internal caufes of Difeafes might be perhaps not incommodioufly reduced to this title. For any thing whatfoever contained in the Body, and preternaturally altered, as they are preternatural, they indicate their ablation, and may fo far forth be reputed among things to be caft out, which are neverthelefs preternaturally retained. But we more rightly grant, that all internal caufes may be diffinguithed into two kinds : one wherof comtaineth those things which are preternaturally retained and caft out : the other, fuch things as are contained in the Body being preternaturally altered. For these latter are not only taken away by cafting out, but also by Altera-

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Alteration, they may be reduced to an agreeable proportion of Nature. However it be, there is a great affinity between the Humors vitiated by Alteration, and the excrementitious Humors which are retained. For there are fo many and fuch various ways of caffing out in the Body, that scarce any humor can be imaginably produced by Alteration, which doth not properly relate to the fecretive and excretive faculty of fome Bowel, or fome other partiand is definated to be fevered and evacuated from it; and therefore though the errors of the first concoction are scarce corrected in the second or third, by Alteration, yet they may be mended by local motion, or excretion, made from some part of the Body, the unprofitable parts being separated and rejected. In likemanner the mais of blood being any ways preternaturally altered, or infected with some Humor, the peccant matter which cannot be otherwife fubdued by Alteration, is quickly exterminated perhaps by excreffion made from fome part or Bowel (unless withal the fecretive or expulfive faculty thereof be hindred) therefore it must needs be of great moment for a Phylitian to know what Humors are particularly predominant in any Difeal, and by what determinate ways they may be most properly spied out according to the intent and purpole of Nature.

For there are as many fubordinate species of things spied out, as there are diffinct substances of the Bowels and other parts destinated to that office in the Body. For it is credible that the Liver doth cast out one thing, the Kidnies another, the Sweet-Bread another, the Spleen another, the Stomach and Guts another, the Lungs another, the Brain another, the Stones, the Matrix, the Kidnies, the Kernel under the Canel Bone, the glandulous parts of the Larynxes, the Throat and Jaws another, the

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the fcarf Skin and the Skin another. For it feemeth fcarce admittable, that Nature should build and prepare for her felf Organs of different kinds, and yet should make use of divers of them for the performance of one and the same action. Therfore when the excretion of any of the said parts hapneth to be restrained, a certain peculiar filth will flow out from thence into the mass of Blood, and so there wil be so many differences of things preternaturally retained, as there are kinds of parts infervient to particular casting out: and in like manner there wil be as many kinds of vitious excretion, either by exces, defect or depravation, as there are divers wais thorow which the excretion may be made:

If any man demand, Whether the feveral kinds of things excerned be fufficiently discovered and underftood by us : We answer, that an exact knowledg is defired of that particular humor which is to be caft out thorow the new Veflel of the Sweet-Bread, then in the next place, what is caft out by the Kidnies, the Kernel under the Canel Bone, and the glandulous parts of the Larynx : yea, perhaps it is yet scare sufficiently known, what is rejected by the Spleen. For this caule therefore amongst others, it feemed good unto us to superfede in this place any high and accurate disquisition of things fecerned and retained, either in relation to the parts and ways whereunto they belong, or in order to the prefent affect, and rather to infift on that fourfold divition of Humors made by Galen; namely, into Choler, Phlegm, Blood, Melancholy, adding only undue transpiration and fweating. For although we may doubt, whether this division can deduce the humors to the subordinate Species, (as we have noted above) more then four parts diffinct in the species are evidently dedicated to the cafting out of the humors; yet feing that this division of "

of the Humors is not only approved by al Claffical Phifitians, but that it is likewife profitable in it felf, and at leaft reduceth the Humors to certain Heads or Kinds. (however' perhaps every kind may comprehend under it feveral species) we are resolved for the present to infift upon it, and fo much the rather, becaufe under a general notion it very fitly conjoyneth and containeth both things altered and preternaturally contained within, and also things to be spied out which are not yet excerned, and in that respect it will eas our burden and contract our work. For whilft we make our proceedings in this manner, it will be needless to institute any other peculiar Chapter of the Caules of this Difeal, namely of this altered which are preternaturally contained, feing that they are comprehended, as we have faid, under this Title.

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We reduce therfore the internal Caufes of this Difeaf (whether they be excrementitious humors retained, or viciated by alteration) either to Choller, or to Melancholly, or to Flegm and a Waterish humor, or an undue Transpiration and sweating, for the Blood properly so called is in this affect scarce observed to be faulty.

You may object, That Practical Physitians do in this Difeas commonly prescribe the opening of a Vein in the hollow of the Ear, observing that Evacuation to be very profitable, which Reason could hardly admit, unless the Blood were in some degree peccant?

We answer, That this Remedy is available, not in respect of the universal plenitude of the Blood, but by reason of a peculiar plenitude of the Head it self. For we have already shewed how that the Blood is unequily dispensed to the parts of the Body, and indeed illiberally to the first affected parts, but to the Head superabundantly. dantly. Therfore although there be not an universal redundancy of the Blood in this Difeal, yet in respect of the particular Plenitude of the Head it felf, such a particular emptinels, is perhaps profitably inftituted those outward and smal Veins of the Ears being cut. You may reply that we by this Answer do indeed decline the universal Plethora, but that we grant a particular one of the Head, which ought no less to be effeemed a cauf of ficknels, We answer, That we have at large explained this fault of the Blood, when we discoursed of the unequal distribution of it, unto which place it properly belongeth; feing that it is a caul of the Secondary, not of the Primary Effence of this Difeal; and therfore a vain and superfluous repetition therof ought not in this place to be expected, We will now therfore proceed to our purposed disquisition of the Humors, and likewife the Transpiration aforelaid. First Choller (whether by this word you understand

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First Choller (whether by this word you understand that excrementitious humor in the little Bladder, and the Chollerick pore, or a hot, dry, sharp, and bitter part of the Mais of Blood, or that unfavory humor that rafteth like stinking Oyl, begotten and flowing in the Stomach by some corrupt aliment, especially, that which is fat, addust, or falt; or certain sharp and corrosive Excress produced in the Body by corrupt Blood) if it abound and luxuriate in the Body, very probably be a cauf of this affect.

For although it may rather feem to impugn that cold and moift diftemper, which is a part of the first Effence of this Difeaf; yet in regard that it is apt in fome for to hinder the nour issues of the Parts, either by a vehement irritation of the expulsive faculty, or by attenuation of the aliment, and to extenuate and wast the very inherent conftitution of the Parts, and by confeouence

(177) quence to confume and diffipate the Natural Spirits, it nay not unjustly be numbred among the causes of this Difeaf. For every one knows that Perfons of a Cholerick Conflitution are lean, and of an extenuated habit becauf of the Reasons aforefaid. Secondly, A Meancholly humor (whether you understand the Earthy Portion of the Blood, or that faltish or tartar like mater excreted in and with the Urin, and when the Urin roweth cold, incorporating into little Sands; or that owr humor powred into the Ventricle perhaps by the spleen (though not through that fhort Veiny Veffel, is the Ancients beleeved) or those terrene Parts of the affumed Aliment, which are evacuated by fiege with the ther Excrements) understand either or any of them, if his humor aboundeth and be not purged out after a due nanner, may be blamed as a caus of this Diseas. For irst, that humor which is the more Earthy part of the Blood, if it exceed a just proportion in the Mals of Blood, it rendreth it unapt to nourish the Parts, especilly those that are first affected; for the first affected arts are of a more noble texture than the substances of he Bowels, or the bony parts ; and therfore we have aleady noted how the Parenchymata of the Bowels and he Bones do eafily admit nutrition, and by a way like into digestion; but those former parts do require a far nore exquisite secretion & elaborated affimilation. And his is the Reason that the fleshy parts of the Bowels are ightly imputed among the impure and groffer aliments, namely, Becaul they are nourished with a cours Blood, . ind not accurately elaborated before the Union. Secondly, Any great accumulation of Saltish, and Tarar like matter is an Enemy to Nutrition, and is raher diffipative and devouring than favoring augmenation. Thirdly, The fowr Humor of the Ventricle is totally

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totally ravenous, and as it were hungerftarved, and perhaps where it aboundeth it eafily communicateth to the Blood fuch another Depredatory quality; Fourthly and laftly, The Terrene Dregs of the Belly may if they be inordinately retained, taint and infect the Chylus, and render it unapt for the nourifhment of the part. Finally we grant, that every propounded kind of Melancholly fuperfluoufly coaugmented or preternaturally retained, doth not primarily, properly, and directly concur to the production of this evil; but neverthelefs we are of opinion that indirectly, and after rhe manner propounded it may contribute fomthing to the generation of it,

Thirdly, Flegm (whether it be taken for the moifter and colder part of the Mass of Blood, or for the wheyish part therof, or for the flow humor of the Stomach and Guts, or for the Spettle, or for the Snot of the Nostrils or Jaws, or for that peculiar humor, which perhaps the new Veffel of the Sweet-Bread doth use to evacuate) however you take it, if it be retained or abound in the Body, it hath a direct reference to this Difeaf, and properly deferveth to be called the cauf therof. For this humor is cold, most, flow, thick, benummed, little spiritous, loft, and affected with an internal flipperineis; all which things do exactly comply with the primary and fecondary Effence of this Difeaf as they have been propounded. Wherfore upon a superfluous accumulation of this humor, feing that there fucceedeth a conspiracy to the production of this affect, it ought justly to be effeemed a proper cauf and a Primary Agent.

Besides these humors undue Transpiration, as also inamoderate or desective sweating may be somtimes numbred among the causes of this affect.

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For exceffive Sweating, as also immoderate Transpiation, doth diffipate the Spirits, and withal diffolveth he parts, especially the external which in this Difeaf re the first affected, and the inherent Spirits being conumed it eafily leaveth a cold diftemper behind it. For o a just excitation and confervation of the heat of the arts there is required a certain due and regular strife of he exhalations between breathing, which if it prove eficient, the actual heat alfo (becauf it partly confiteth in this strife) becomes very feeble and languid, nd the parts are eafily exposed to a cold diftemper. But re have already spoken of this matter at large. On the ontrary, Sweat preternaturally reftrained, as alfo a vey fmal or lefned Transpiration, doth eafily kindle a eaverish heat, and therfore it likewise injureth the pirits and diffolveth the parts, and rendreth them aferwards eafily obnoxious to a cold diftemper.

Finally, That we may comprehend all in a word, iny humor excerned above Reafon or Measure doth afily introduce a colliquation of the parts and a diffipaion of the inherent Spirits, and confequently dispose the he Body to this affect. And let this suffice to have been poken of non-Natural things, and the causes of this Difeas thence arifing.

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CHAP. XVII.

Precedent Diseases which may be the Cause of this Disease.

::*Hele Difeafes, in respect of their proper Ef-T in lence, ought only to be called by the name of Difeafes, but in respect of this Difeaf they may rightly pass under the notion of causes of Difeafes, becaus they leave it behind them as one of their Effects. Yet although many of them (as they relate to the Parents and so imprint a Natural pollution in the Off-spring) are rehersed above, nevertheles, by right they here deferve their confideration, yet in a different respect and order. These Difeases we reduce to three Kinds or general Heads.

First, To Diseases that have some affinity with this affect.

Secondly, To Difeafes that extenuate the Body.

Thirdly, To Diseases inducing a stupor and duness in the first affected parts.

Of the First Kind.

Diseases having an Affinity or holding Congruity with this we call those who at least in part confist in the same with the Essence of this Diseas : of this kind are a ny cold distemper, or any moist distemper, also any, cold and moist distemper. For a part of the first Essence of this Diseas includeth a cold and moist distemper, and so

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o those distempers do partly agree with this Affect. Hiher also belong a Phlegmatick Cachocymy, a Melanchoy and a mixt ; an obstruction proceeding from such like umors, a Cachexia and a Dropfy. Yea, we may likevile refer hither in regard of their affinity, those Difeaes wherein the inherent Spirits are somwhat consumeds or a part of the Essence of this Diseas consisteth in a arfity of those Spirits, but otherwise they are more ptly referred to the second kind. In like manner the Diseases wherin the first affected parts are benummed,& upified; may likewise in respect of their affinity, be hiterto referred, although they belong more properly to e third kind of Diseases. Moreover, those Diseases herin the Tone of the parts is infeebled and loofned uft here be listed, for they include a part of this Diseas; amely, that which confifteth in the loofneffe, litheris, internal flipperinels and foftnels of the Tone, as ey are above described. The Philosophers say, that e Elements which agree in like qualities, are eafily anged one into another; by the fame reason that these iseases which partly agree in the same Essence do easiadmit a reciprocal change from one to the other. So : see a quotidian Ague, which agreeth with a putrid aver in a preternatural heat, upon every flight Caufe generate into it. Yet it must here be noted, That eat Diseases are not so easily changed into smal, as al ones into great. Befides, not all Diseases which rhaps participate alike of the same Essence, are with equal facility reciprocally changed. For fome Difeaare more subject to change into others, with whom part they have some agreement, than others : And it for other Reasons beside the said agreement, howeit be, if a cold and dry diftemper should happen to a nild, that would eafily change into a cold and moift 3 both

both in respect of the congruity of each Diseas to cole and also a peculiar inclination of that tender age t moisture. For by reason of the coldness, the digestic becomes imperfect, and hereupon crudities or crude hi midities are engendred, which a cold diftemper in t tender an age would eafily and immediatly follow.Mor over, a cold and moist distemper in regard of the cole nefs would make a flow Pulse, and in regard of the mo fture would make it the more flippery, and the lefs vi cous, wherupon the Vital heat being diminished, ab nummednels and dulnels by little and little would fte upon the Vital Spirits. Finally, in respect of that fli perish retention arising from the internal flipperinels the parts, and by reason of the weak concoction, the i herent Spirits of the first affected parts, would also I degrees be diminished, and so by little and little aft this manner the perfect Effence of this Diseal wil bei troduced.

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Of the second kind.

Most Diseases making lean, or any ways externation the Body, although perhaps they no way participate of the Effence of this Diseas (like the Diseases of the first kind) yet they do dispose the Body to the invasu of this affect, and may also leave it after them. For great quotidian Diseases, in process of time do externat the Body, wast the inherent Spirits, and dissolve t *Tone* of the parts; and this attrition and attenuation the parts doth chiefly refer to the first affected parts this Diseas. For as we have already afferted, the fur flance of the Bowels are not so easily subjected to difficue into or diffipation. But in the dissolved Carcastes those who have dyed of Chronical Affects, the Bows

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are observed to be no less ; yea, many times much bigger when the external parts (which in this Difeaf are first affected) are for the most part made lean with the vehenency of the affect. And therefore feing that extenuaing Difeafes, do chiefly communicate their force into he first affected parts, it eafily falleth out that in Chil-Iren they help to introduce this Difeaf. For the inheent Spirits of the first affected parts being very much waited, a cold diffemper mult needs follow, which by eason of the crudity is (as we have faid above) received y a moift one and a benummedness; because the heat, ctivity, and vigor of the parts do chiefly depend upon he plenty of Spirits. And thus we have exhibited the nanner wherby this Difeaf doth follow and as it were read in the footlteps of other foregoing affects of this ind, which we now further fubdiftinguish into three Claffes.

The first comprehendeth Difeases extenuating and onfuming the habit of the body, by ways infenfible; hiher are referred almost al Feavers, especially the Hectick nd Confuming, an Ulcer of Lungs with a putrid Feaer. Also any continual Feaver that is violent, as a buring, malignant, peftilential Feaver, a Pleurifie, and an nflamation of the Lungs, also the smal Pox, and the leazels when they grievoully afflict the Patient. In ike manner intermitting Chronical Feavers. Laitly, I Chronical Feavers that torment with vehemence do he fame. The fecond Claffis containeth Difeafes conuming by manifest passages, and evacuating the folid ubitance of the parts. Hither you may refer immodeate vomiting, a Lyentery, Dysentery, Lask, the Hepatical lux, the Diabetes, any profuse Hemorrhage or Bloody flue, any exceffive fweating, any great Ulcer in any art, eating deep, and dayly cafting out much matter. For

For al these Affects do evidently extenuate the habit of the body, and cause the introduction of this affect.

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The third containeth the Discases which ate faid to extenuate the substance of the parts not directly, but by consequence : as al Diseases interrupitng concoction or the distribution of the Blood. For these prohibit the reparation of the parts continually fed upon by the Vital heat. Hereupon several Diseases of the Ventricle, Guts, Mesentery, Sweet-Bread, Spleen, Liver; Yea, Diseafes in the Mouth, Jaws or Throat, which hinder only the assumption or swallowing of the Meat, may in this respect be numbred among the causes of this Difeas. As a distemper, a tumor, a nauseating, a feeble appetite of the ventricle, a distemper, a tumor an obstruction & Skuvbus of the Mefentery, & Sweet-bread, or the Liver, Spleen, and the like effects of any of the faid parts, which by any means frustrate the due concoction and distribution of the nourishment, and thereupon extenuate the parts by defect of nutrition.

Of the third kind.

Difeafes that induce an aftonishment to the first affefted parts, do also by a peculiar propriety conspire the production of this Affect. For the Natural heat of those parts is somewhat dulled by them, and is rendred less effectual : whereupon a cold diffemper stealeth in by degrees, which is also (as hath been faid) easily waited on with a moift diffemper, a softness, and internal flipperiness. Moreover, the Pull of the Arteries reaching to those parts is secretly, and by little and little weakned, the diffribution of the Blood, and the Vital Heat is diminissed, the parts themselvs are sparingly nourissed, and at length there comes a defect of Natural Spirits. So that from this Root also, for some time perfevering the

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the Effence of this Diseas may at last bud forth. The Apoplexy, Palfy, Lethargy, and the like effects do chiefly belong hither. Yet Children do exceeding rarely fall into this affect from these fleepy Causes, and so rarely, that we have not yet observed this Diseas to own its beginning to fuch affects. If any demand a Reason of this rarity; we fay, that the Bodies of Children by reason of their permeability and thinnels, are seldom subjected to those affects; but if at any time they are invaded by them the Difeaf doth not first affault the Natural or Vital, but the Animal Constitution, and confequently procureth for the most part a deprivation of the Animal Faculty, before it interrupteth either the Natural or the Vital. But the benummedness wherof we now speak, belongeth to the Natural Constitution, into which it cannot be prefently transferred. Moreover, they are eafily and speedily driven out, by reason of the facility of transpiration in the Bodies of Children, if peradventure those affects do gently invade them : but if they rage and tyrrannize, they eafily and speedily dispatch and kil, as being in their own Nature most terrible and grievous Diseases; and the sooner, because of the weakness of their Constitutions over whom they prevail. But which way foever they happen, they fcarce continue fo long, as with fufficient efficacy to imprint this benummedness in the Natural Constitution of the parts. Yet we grant that these affects may, if perhaps, they perfift longer with life, affect the Natural Constitution with that benummedness fo that this Difeas may follow thereupon, although we can neither justify, nor affert it upon the credit of a fingle observation.

But the Difeafes which do most frequently introduce an aftonishment in the Natural Constitution of the first affected parts, are those very same, which hinder Chil-

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Children any way from ordinary actions and due exercifes, especially from the use of their feet, as the luxation fracture, or fom wound of a foot, or thigh, or the leg, or the Back-bone : also tumors and pains, or the like affects, whether they afflict the parts aforefaid or others, provided that they hinder the Children, fo that they cannot walk, or play standing upon their legs, or use any Masculine Exercises. For hereupon by degrees the vigor and heat of the external parts waxeth dul, which in this evil are the parts first affected, and from thence the other parts of the Effence of this affect, follow by an uninterrupted and linked succession, as whosever wil may see above.

We have now run over the Caufes of this Affect, and should in the next place proceed to the differences therof, but that two difficulties do here interpose themselvs, which properly refult from a higher confideration of the Causes propounded. For al those Causes now alleadged seem as wel common to Boys of big growth, as to Children, whereupon it may very pertinently be enquired, How it comes to pass, that they which are grown to mans Estate are not infested with this evil, as wel as Children ? Then again, Seing that the Caufes propounded are al of them almost common, both to England and many other Countreys, & fom of them to al Climats of the Earth, It may be demanded in the second place, Why this difeas is more frequent and rife in England, than in other Countreys? These Questions we shal examine in order, and shal freely deliver our judgment concerning them.

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CHAP. XVIII.

The Former Question.

* * Hy they which are elder in years are not equal-W 😵 ly obnoxious to this Difeas as Children? The Be terms of the Question seem to infinuate, *** that this Affect may happen, though very rarely to those of big age. But we referve the folution of this doubt til the close of the present determination. Therfore in the mean time the Constitutions or dispofitions both of Children that are chiefly obnoxious to this Diseas, and also of bigger Boyes which are rarely fubject unto it, must be opposed and every way confidered and thought on : also of Youths, Men, and Old Men, and that in order and relation to this Affect. For the Question is not absolute, but comparative, therfore the first and best way of determining it, wil be by a mutual comparison between the different dispositions of the faid Subjects, how they admit the impressions of the propounded causes either with ease or difficulty. Then certain accidental and peculiar conditions of Yong Children, under fuch an age must be likewise confidered in respect of which they are under one age rendred more, under another less obnoxious to this Diseal.

That we may the more fuccesfully declare the former comparison, we will diftinguish the ages of men. Here we comprehend Children of fix months of age, a year old, two, three, four years old ; there we understand those

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those of five years of age or more, Youths, Men, and old men, and those we cal by the general name of Juniors, and these by the name of Seniors, unless perhaps the matter may require a subdistinction of the greater fort : these things being premised we address our selves to the collation.

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First, The yonger Children are of a colder temperament than the Elder. For the heat of the temperament is augmented from the time of the birth to mans effate, at which time it standeth at a stay being far more intensive than that of Children, but afterwards it declineth by degrees unto extream old age, and a little before that extream age, it falleth into the same degree as it held in the time of Child-hood ; but before the approach of this term of extream old age the temperament of aged men is more hot than that of Children, for although yong Children may enjoy a greater plenty of Natural heat, and abound with Natural Spirits, yet there is no neceffity that they therfore must be of a hotter temperament, for there is required a concurrence of many things to conftitute a hot temperament, belide the Inherent Spirits, and the inherent heat ; as for example, a large portion of Chollerick humors, and withal or chiefly a ftrong endeavor of the Vital faculty, namely in the pulses, and the Vital Spirits in their circulation. Seing therfore that the yonger Children are more cold, it is no wonder, if they be more subject to cold Diseases than others, such as this is. As for old men, especially such as are inclining to extream old age, we grant that they also are more cold, and upon every light occasion obnoxious to cold Diseases. Wherfore from hence, namely, from the coldness of the temperament, we infer no difference between yonger Children & thele old

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old men, in respect of an aptitude to fall into this affect. Secondly, The yonger Children are more moift than the elder; for to wax old, if it be taken in a found sence, is to wax dry. For although old men after their manner may be likewise obnoxious to moist affects, as Cathars, Obstructions, a Cachexy, a Dropsie, a Palsie, a Lethargy, a loofness and trembling of the Nervs, and the like evils, yet really there is some difference between a moist distemper which happeneth to Boys, and that which befalleth aged Perfons. For in Children an adventitious humidity constituting the diftemper doth not only penetrate the most retired substance of the folid parts, but they are totally incorporated with the fame : But in old Men the folid parts, even then when it is endued with a moist distemper, doth not seem to part with its earthiness, but to be in some sort compounded of that Earthy Nature, and a certain adventitious crude and moift Juice, or else an excrementitious drunk into the pores, or into the substance of the parts, yet it is not fufficiently incorporated or united. For as fand, being drenched in much water, retaineth al its Earthy fubfance, however it be somwhat moist; So also the Bodies of old Men, however they may be moystened with crude and excrementitious humors, yet do they not depolite that terrene lubstance, or that part which by the Chymicks is defigned by the name of a dead Head, which they dayly accumilate unto themselves from their first beginning. This diffemper therfore of old Perfons is spurious not genuine, crude and not perfectly digested into the substance of the parts. And therefore although we grant that old men may in their way, labor with a moist distemper, yet it is manifest withal by what hath been faid, how great a difference there is between this of aged perfons, & that of Yong children. Morover, that this

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this moift diftemper of old men, is lefs Homogeneal to the prefent affect, then that of children, appears plainly from hence, becaufe it produceth not that fortnefs and tendernefs of parts in old men, as we fee it doth in Children, neither doth it equally difpofe them to a diffipation or colliquation of the inherent Spirits, or any flippery paffage either of the Blood or Exhalations, which are fuppofed in this Affect : But on the other fide, it rather rendreth them obnoxious to obftructions, and the other evils recited before a comparison, therefore being made between the cold and moift diftemper incident to Younger Children, and that which is wont to affect old men, there refulteth a pregnant reafon, why aged people are not fo fubject to this Difeaf as Children.

Thirdly, Yong Children, although they Naturally abound with inherent Spirits, yet by reafon of the eafie transpiration of their Bodies,& becauf of the laxity,tenderness and incoherence of the parts, they are much more prone then Elder perfons to diffipation and colliquation of the Inherent Spirits, and by consequence upon less and flighter causes they fal into a want of them.

Fourthly, Younger Children by reafon of that very fame weak confiftance of the parts, are alfo rendred more obnoxious to an aftonifhment than the Elder. For to the vigor and activity of the parts, there is required befides a juft plenty of Spirits, a ftrength of their coherence and confiftence.

Fiftly, it is not needful for us to ad any thing concerning the *Tone* of the parts, feing we have fo often infinuated the weaknefs of it in Younger Children in refpect of the Elder, and any man may observe that upon the increase of years the *Tone* is more and more confirmed.

Sixthly, As for the diminute diffribution of the blood

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to the first affected parts, (which we have already proved to be a confiderable part of the fecondary Essence of this Difeaf) We fay, that the Elder Children do use more strong and frequent exercises then the Younger, and therefore that the pulses of the outward parts are nore strongly stirred up in them, and that a greater teat is raised and cherissed in them, and by confequence t cold distemper is more potentially driven out of them.

Seventhly, as for the Organical faults, namely, the ugmented magnitude of the Liver Head, and their Veffels, it is a known thing that the proportion of he parts is more ftable and confirmed in the bigger Children, and on the contrary that in the Younger they re eafily moved and altered, but the augmentation ceaing they are not any more afterwards altered, without ome unufual and weighty caufes. So that even in this efpect the Younger Children are moft fubject to this Difeaf.

Let us therefore conclude the parts of the Queftion, That Young Children, in respect of their Natural Contitutions and dispositions are more obnoxious to this vil then those that are Elder, and so much the more, the Younger they are.

But we must not wave an Objection, that here we neet with, which also doth very filly conveigh an occasion of paffing to the other comparison; namly, of Young Children amongst themselves. For if Young Children as is manifest by what hath been said) are more prone this Diseas by their Natural Constitution and dispotion, and the Younger they are, the more subject they are: Iow comes it to pass, that Children rarely fal into this steet, before they are fix months old and somehat more? ior according to the Opinion delivered, Children should

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should seem to be principally subject to this Difeas immediatly after their birth, which yet experience difappointeth ; yea, rather indeed it witneffeth the contrary; namely, that Children before they are nine months old are feldom or scarce ever afflicted with this Diseaf. Here therefore it wil be needful for us to declare that other comparison of Young Children among themselvs. For it cannot be, that this Affect should fo constantly spare Children, chiefly disposed unto it, and frequently invade those that are less disposed, unless some difference did intervene, which did in a diverse manner relate to those ages, and which notwithstanding the propensity of Nature doth retard the invation of the Difeaf, before the first twelve months were compleatly expired, and yet afterwards, either doth not at all or not fo potently defend Children from this Difeaf. Here therefore we must find the very reason of the difference between these ages : which that we may the fooner do, it wil not perhaps be impertinent to take special notice by the way of those ages, which upon the authority of experience are obferved to be more frequently affected with this Difeas, and likewise those ages which are least afflicted with it.

We affirm therefore, that this Difeal doth very rarely invade Children prefently after their birth, or before they are fix months old; (yea, perhaps before the ninth month) but after that time it beginneth by little and little daily to rage more and more to the period of eighteen months, then it attaineth its pitch and exaltation, and as it were refteth in it, till the Child be two years and fix months old: So that the time of the thickeft invafion is that whol year, which bears date from the eighteenth month, two years and a half being expired the Difeaf falleth into its declination, and feldom invadeth the Child, for the reafons already alleadged. But the reafons

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alons Why Infants newly born are rarely affected, and thy from the ninth to the eighteenth month they are freuently affected, and why after the first eighteen months ey are most frequently affected shall now all of them in eir order be produced.

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The First Reasons why Children newly born are very feldom invaded with this affect may be these.

The First is, Becauf the $\mathcal{E}mbryon$ in the Womb is by e equal heat and embracement of the Matrix strongly rtified against this Diseas, as we have declared above, d by consequence the same being brought to light th for a time retain som of that, muniment & defence lich it contracted from that equal warmth of the some, and therfore presently after the Birth it doth t fo easily fall into it.

The Second is, Becauf the Midwives and Nurfes do ndle them fo artificially when they are new born, at their condition is not confiderably different from at which they possessed in the Womb. For they enap the whol Body, excepting the Head, in one conual Covering; wherupon the exterior and first afted parts of the Body in this Diseas are fortified ainft the injuries of the outward cold, and the hot exlations breaking out from any part of the Body are ly and equally retained by reason of that Covering lich is two or three times double, and bound about th fwathing Bands, and equally communicated to all e parts of the Body, fo that they are cherished with even heat as it were in a common Hypocauft or hot ouf. Seing therfore that the first part of the Essence this Dileas confisteth in an unequal cold diftemper, is no wonder if these Defences and Fortifications of e Body do avert it at least for some short time.

The

The Third Reason may perhaps be the wholsomnes of the Diet, for Breaft-Milk is the most folubriou and agreeable nourishment that tender age, especiall when it is fucked from the Breafts : for it is a fimpl and uniform Meat, full of nourithment, easie to con coct, and friendly and farmiliar to the conftitution e Infants. Therfore to long as they are conveniently nou rished with it, they incur the fewer errors of diet, an are rendred the less obnoxious to this Difeas. Yet must be noted, that if the Nurses milk be not laudab and good in it felf, or otherwife difagreable to the Cor Riturion of the Infant, then this reason is of no forc Therefore if the Nurse be big with Child, or immode ratly addicted to Venery, or any ways fickly, or given 1 drunkennels and inordinate feeding, it is fafer to hafte the wearing of the Infant, unleis you are provided of better Nurse.

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The fourth and last reason is the flowness of the mc tion of this Discal in his first invalions. For it itea eth on fo flowly, that it fcarce bewrayeth any preparat ons to an affault til some months are expired, unless th progress of it be advanced by some extraordinary ar most vehement Causes, as by some more violent Affe preceding or coming upon it. Seing therefore that th Difeaf doth fo flowly take Root, and feing that Chi dren, as we have formerly shewed, are commonly bot tree from it, it seldom hapneth to break out evident into act til the fixth, yea, indeed til the ninth month And thus we have given the realons, why Infants new born, notwithstanding the weakness of their Constitu tion, are for many months priviledged from this D feal.

Secondly, The caufes why Children from the nint to the eighteenth Month are every day more frequent infefted with this affect, are thele, Fir

(195) First, Becauf the first Cauf even now propounded, triving away this Difeaf in those that are new born, loth daily remit, and before the ninth Month doth toally vanish. Secondly, In like manner the fecond proulfive Cauf before alledged till that age doth every day row more effectual. For the hands of Infants, after ome Months, if not before, are usually fet at liberty rom the prison of their Blankets, and perhaps their eet also before they are fix months old, although at ight they are swadled up again. In the day time therpre at the least these outward Members are destitute of at common and comfortable warmth. The Nurfes kewife do many times er, when they cloath the weak nd feeble Infants too foon, For they idly define the me of cloathing them by the number of the Months, ing that they fhould rather give an effimation of it by ie strength and activity of the motion of their Hands nd Feet. For when the motion and exercise of those uts doth avail more to excite and cherish their heats id to irritate their Pulses, than the warmth of their radling cloaths, without all controverse that is the me to devest Infants from their swadling cloaths. loreover thirdly, After the ninth Month Children ually are fed with other aliment befides Breaft-Milk or her Milk, and from that variety in feeding there eafily, fulteth some errors in point of Diet. Fourthly, The owneis of the Motion of this Difeal doth not hinder, it that it may break forth into act after the ninth lonth. For the motion, by reafon of the unperceivae flownels of it, at the end of certain months, doth hibit fome effects and impreffions. Laftly the evils breeding teeth do likewife contribute very much to e lame purpose. For the Teeth begin to breed commonabout the feventh Monthy and come accompanied P. 2 eafily

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with divers Symptoms, which eafily dispose tender Bo-Thirdly, The Causes why this Diseas most frequent-

dies to this affect.

ly rageth when the Child is eighteen Months old, are;

First, Becaus the Causes before cited hastning this Diseas in the yonger Children, are upon the approach of this age taken away, or at least they operate with weak and ineffectual powers.

Secondly, The evils of breeding Teeth, although in refpect of the immediate Symptoms which they produce perhaps before this time, they nourifh; yet for the moft part they leave behind them in the first affected parts a certain disposition, which privily, hiding it felf within them, after the term of some months produceth this Diseas. But the breaking out of the Dog-teeth chiefly hath reference to this place; feing that these break out a little before the Child is a year and an half old, and their coming forth likewise is of al other the most painfull.

Thirdly, Hitherto belong also those accidents which happen by reason of ablactation or weaning of the Child, and at that time a great alteration befallet Children in matter of Diet, which they endure nor without palpable molestation. For herupon they are angry, they cry, the commotions of their minds make them forsake the nourishment of their Bodies, they are hard to be pleased, neither do they fleep quietly. Al which things do easily imprint in the parts first affected at least a foregoing disposition (although perhaps no till a long time after) to this affect.

And so at length we have also run through this second Comparison, namely of yong Children among themselves, and we have briefly explained the Caules why those

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hose Children at one age are more, and at another age re less exposed to this evil.

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The Third part of the Question still remaineth, hich as we faid we would referve to be examined at the close of this Disputation; namely, Whether those hat are of a greater age do somtimes fall (though exteding rarely into this Diseas.)

We fay first, For so much as concerneth that part of e Effence of this Diseas, which consistent in a moist stemper, that some difference must be expected to be tween that diffemper in yonger Children, and those at are bigger, in yong Men, Men, and especially in d Men, for the same difference which we put before tween the moist diffemper of yong Children and old en, may according to quantity as more or less, be obved between the middle Ages, and therefore the huidity of the yonger Children will be better concocted d more genuine than that of the elder, as it is obvis to collect, mutatis mutandis, from the same reasong.

Secondly, As for the organical faults, we affirm that ceffarily there concurreth a vaft difference between ifeafes of this kind incident to Children, and perhaps thole of greater age, for the tumors of the Bones in Wrefts and Ankles, as also that narrownels of the eaft, likewife that disproportionatly augmented so f the Head and Liver, are either less confpicus or altogether undescernable, especially in those that grown to full age. For as the years encreas the Fire and proportion of the Parts becomes more comt, firm, and ftable; neither doth it eafily come to s that one part doth much grow out more than anor by true augmentation.

Thirdly, We lay that excepting the two premifed P 3 conditions, conditions, and that in that manner as they are propounded, this affect according to the other parts of the Effence thereof (although indeed very rarely and upon the higeft caufes only) may happen to Boys, Young Men, Men, and old Men. For first a cold distemper without al controversie may befal them, though not fo eafily as Children. Secondly, A moist distemper may also invade them, but yet only by the limitation propounded. Thirdly, A want of inherent Spirits, may alfo befal them, but then it must proceed from the most potent caufes. For Chronical Difeases and such as consume the habit of the parts, or diffipate it into ayr, or waft it by long fafting and an Atrophy, do neceffarily leave behind them a paucity of Natural Spirits. We fee the outward parts even in those that are grown to ful age, when they are extenuated and confumed by fuch like causes, to wax feeble, to languish, wither, and be come destitute of al sufficient Spirituosity. Yet we gran that in those that are grown to full age, the evil which causeth leanness being overcome, the wasted Spirits may foon be repaired by the vigor of the Pulses, and that the rudiments and impressions of this Diseas may be rooted out within one or two weeks, and by confequence, that they are feldom affected with it. In the interim, if i should so fal out, that upon that confuming of the Inhe rent Spirits some impediment should intervene that might retard their reparation, it is possible that this di feal may grow from thence in that manner as hath been faid. But a numbnels of the Inherent Spirits must necel Fourthly, The farily follow upon a fewnels of them. parts of the Secondary Effence, feing that they have itrong dependance upon the Primary faults, where their persevere long (the Organical faults being excepted they may supervene in their order. So that we do no doub

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doubt but this Difeaf may happen to any age after childhood ; the reftrictions which we have now propounded being granted, and upon the urgency and perfeverance of great and weighty caufes.

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One amongst us affirmeth, that he had a Gentleman in cure about thirty yeers of age, who by dayly immoderare use of Wine and Tobacco, continued for some whole years, having neglected the due receiving of his meat, fel into fuch a weaknels of Stomach, that continually every morning he vomited, and loathed al kind of Meat, and if at any time he fwallowed any with unwillingness, he presently vomited it up again : to appeale this quezinels of Stomach, he was at last compelled to a continual use of ordinary Aqua vitæ, but afterwards his cuftome was to mingle it with stale Beer, and a quantity of Sugar 3 and with this drink alone he preferved himelf alive for many months. In the mean time all thole parts which in this Difeaf we cal the first affected, were extreamly lean, and became foft, loofe, languid and withered, fo that he could neither turn himfelf in his sed, nor rife, nor walk, nor stand upright, yet he felt no Dain, neither was there any privation of fenf and moion, no cough, no unealy respiration, his face was well colored, and al the parts about his Head were in a good condition, and wel habited, fo that had you judged of im by his countenance only, you could fcarce have uipected that he was fick. As he lay in his bed he would hat with his Companions, take Tobacco by turns, and trink that mixture of Beer and Aqua vite aforefaid. The event of the Difeal doth not indeed belong to this places ret we shal fet it down to gratify them who are desirous o know it. The Phylitian being fent for, he strictly orbad al intemperance, and amongst other remedies laving given him one grain & a half of Landanum Londinen-P 4

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dinensis, he appealed the nauseous infirmity, and tumule of his Stomach, which part he likewife ftrengthned with internal and external applications, and prescribed him fuch a diet as was most easy of concoction. Instead of exercife he solicited the heat unto the outward parts with rubbing them every morning : having first given a smal quantity of strengthning and mening Electuary, made up with a little portion of Steel, which he drank in two ounces of Wine, compoled of Wormwood and Mint, a little Saffron being hung in it, to give it a tin-Eture ; three ounces of final Beer, being tempered with it, and a quantity of Sugar to make the tafte of it more pleafant. Moreover, he purged him by fits with gentle Medicines, and in the evening comforted him with cordials. Within twenty days he grew to such a degree of amendment, that he could walk abroad, for the space of an hour, aud could without any ftriving or much weariness climb ladders without any help. But afterwards by a relaps into the like intemperance, he died in the absence of his Physitian. But let us return from this degreffion into the way, & direct our speech to our intended scope. The Affect being now confirmed, as it was upon the first coming of the Doctor ; Besides the faults of the Stomach, it seemed to include a great part of the Effence of this Discal, we now treat of. For in the parts subservient to motion; namely, those that are first affe-&ted in this Diseas, there was a cold distemper, either through defect of motion, or by reason of the immunite afflux and dispensation of the Vital Blood. Again, the foftness, flipperiness, laxity, and litherness of those parts shewed that there was a moist distemper in them. Alfo the extream leannels of those parts did sufficiently demonstrate a fewnels of inherent Spirits, and the unfitnels to motion, and affectation of reft and cal did ftrongly

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gly witne.'s a numbrels in those parts. The ful and florishing habit of the parts about the Head, when the other parts were extenuated, was a forcible reason to prove the unequal distribution of the Blood. But the peculiar cause of this inequality in this fick man, might be his frequent vomiting, whereby a more plentiful afflux of the Blood was driven to the parts about the Head the other being almost destitute of it.

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Any man may perceive by what hath been faid, that at leaft the greateft part of the Effence of this Difeaf was comprehended in this mentioned Affect. From whence at length we may probably infer, that it is poffible for this Difeaf to happen to thole of ful growth, being confidered according to the propounded limitations; although it very feldom coms to pais, becaufe great caufes and length of time are required to the production of it. And thus at laft we have put an end to the fearch upon the former Queftion.

CHAP.

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CHAP. XIX.

The latter Question.

Why this Diseas happeneth more frequently in England, then in other Countreys? And whether it be Natural to Englishmen?

T is acknowledged by the common confent of A Phyfitians that there are certain Country Di-Seafes; namely, which more frequently in-*** fest the Inhabitants of some one Region, than of another, by reason of fom Common Caus. But feing the relation of the Country to the Difeafes usually raging in it, may be observed to be of a divers kind ; and feing wife men have improperly denominated fome Diseases from certain Countreys : Finally, feing that they who have hitherto written of Countrey Difeales have without difference, called all Diseafes which are most rife in any Region by the name of National or Countrey Difeases as if they did equally participate of the Nature of a Countrey Difeaf; we have judged it to be a profitable enterprize to premile fome things in this present disquisition, concerning the differences of these Difeafes among themselves.

First, Therefore those affects which have the denomination of Country Diseases, from the Region, are properly, or less properly, and abusively so called.

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There are four conditions required to denominate a Country Diseas properly so called.

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The first condition is, That the Diseas be more frequent in that Region, unto which it is attributed, as Natural and common, then in any other Region, unto which it is not attributed as fuch. For a common or Country Diseas, is always supposed to have an unequal reference to divers Regions, and to infest one more (namly, that unto which it is ascribed) and another less.

The Second Condition is, That the Difeaf depends upon fome kind of inclemency of the place. For a Difeaf properly common imputeth a certain crime or faultinefs to the very place; therfore when a place is not guilty of fom peculiar fault, fuch an imputation is improperly, falfly and unjuftly afcribed unto it.

The Third Condition is, That the inclemency and [harpneß of the Region be so great, as to affect the more wary, and such as observe a du Regiment of health, and such an one as is apropriated to the place. For in the Regiment of health some peculiar Caution is due to certain Countries. Therfore when a People neglecting such a peculiar Observation of the place, shal fall into some Epidemical Diseas by an erroneous use of the nonnatural things, that it is not to be reputed a common difeas, but to be imputed to the error, want of wit, incogitancy and negligence of the Inhabitants. For this difeas, which we suppose might have been prevented, had the Regiment of health apropriated to the place been rightly observed.

The Fourth Condition is, That that vicious constitution of the Country do either continue long, or return often. For the fault of a place that is fugitive, not permanent nor often returning, must be accompted as somewhat forregn and meerly accidental in respect of the

Re-

(204) Region, and cannot properly denominate a common Dileafe. As for example, If a pernicious and unufual Air fhould chance to be blown hither from other countries, and fhould produce a common difeaf, which fhould, not prevail beyond fome months; that difeaf ought not properly to be called common, but rather cafual and chanceable. Wherfore the Feaver of Hungary, and the Sweating-ficknefs of England, although they obtained their Names chiefly from those Regions, yet are they shufively termed common, becaufe they want a durable

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abufively termed common, becaufe they want a durable fomentation from those places, and becauf they either ceaf altogether, or at least are not for the present more predominent in this or that place than in another. Diseases improperly comon do indeed include the first

propounded condition of fuch as are properly fo called, namely, becaufe they more frequently occur in that Region whereunto they are attributed, then in another, (for otherwife they would not deferve the apellation of Diseases improperly common) yet they want the second third, and fourth. For they either lack that fomentation that is rooted in the Region, or that fomentation which they have is very weak and in confiderable, which allo may be overcom by a Regiment of diet appropriated to the place ; or finally the fomentation is not permanent nor durable, nor frequently returning. Now by fomentation we understand somwhat that is faulty in respect of health, founded likewise in the condition of the Country. Therefore when fom common and frequent Dileal arifeth from the abuse of some commodity of the Region, as if fom Nation by reason of the great plenty of fruit, and the like fruitfulnels of the place, or by reason of a long and fecure peace fhould abuse themselves to intemperance, floath or the like vices and thereby incur iom common Diseal, that Diseal is not properly to be called

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called common. For the occasion of that Difeaf, which the Country did supply with, was laudable in it felf, and therfore what event soever succeeded, the abuse therof ought to be imputed to the error of the inhabitants, not to any unkindnels or discourtesse of the Region. In like manner if the fomention of a Diseaf be culpable, yet shall not that be founded in the very conftitution of the Country, but in some action of men, as when after the desolutions of War the unburied Carkasses pollute the Air with their putrifaction, and therupon introduce an Epidemical Diseaf, this ought not to be called a common or Country Diseaf, becaus it dependeth upon the liberty of mans will, and was not procured by any proper fault of the place.

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Somtimes also a Diseaf is ascribed to a Nation or Place by calumny, and abusively through the malevolent and corrupt intentions of some People to traduce the Fame of their neighbor Nations. After this manner the Neopolitans call the Venereous Evil, the French Pox, as if it were Natural and Common to the French. And on the contrary, the French to requite the Slander, term it the Neopolitan Scab. But of this enough.

A Difeaf properly called Common, is either Original and Ancient, or Adventitious and New. The Original is that which from the first Inhabitation of the place hath infested the Inhabitants: of this kind perhaps is the Difeaf in the Throat called Branchocele among those that dwell about the Alps; that burning Feaver which they call a Calenture, under the torrid Zone: the mortification of the parts under the cold Zones towards the Poles by extremity of cold.

A Country Difeaf that is new and adventitious, is that which is brought into a Country by fome common Cauf. This is threefold, for either it proceedeth from fome

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fome Original fault of the Region, prevailing by the advantage of time against the health of the inhabitants, or from some alteration or innovation happing to the Region it self. Or from some incongruity between the Place and the complexion of the Natives.

First, A new common Diseas invadeth a Country by some Original fault in process of time prevailing more and more. For 'tis possible, that the firm and ftrong Bodies of the first Inhabitants of any place may powerfully refift the unwholfom influence of the Region, and for many Ages may repel the invalion of the evil, although their posterity afterwards, in length of time, being by degrees changed in that peculiar Reafon of the complexion wherby they maintained the former refistance, may fall at last into some common Difeaf. For the Plica of Poland, and the Scurvy, are common Difeases to the Sarmatians, Polanders, and the Inhabitants of the Baltick Ocean, and they are likewife new Difeases, and (as all men confess) totally unknown to the Ancients. But to this day it is not known that any notable or remarkable Change or Innovation hath hapned to those Regions before the breaking out of those Diseases, to which you might probably ascribe the beginning of a new Diseas. Wherfore we ought rather to fay that those new Diseases did proceed from Iome ancient and original fault of the places : and yes that they did not bewray themselves at first by reason of a peculiar refiftance made by the Natural strength of the Inhabitants. For to this very day fome Families in those places are free from those Diseases, and very credible it is that they may fo perfevere, not yielding to the injuries or threatnings of the Region.

Secondly, A new common Difeal may refult from the altered or innovated conftitution of the place. Such kind

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kind of innovations happen in Countries, either by Earthquakes, or Inundations of Water, or the burfting forth of fome new pernicious Springs, or perhaps of fome new Mineral Exhalations from the Caveous of the Earth, or from fome malignant Afpect of the Stars and the like Caufes.

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Thirdly, A new common Difeas may proceed from the incongruity of the Place with the complexion of the Natives. Such kind of Difeases chiefly happen to Nations, when they transplant themselves from one Region to another : especially when the Constitutions of those Countries which they go to posses, are very different from those they forsook. So the English who first inhabited Virginia were frequently afflicted with a swelling of the Abdomen, and the Hypochondriacal parts; who upon their return to England were cured without any difficulty, but they who continued in Virginia were not so easily reftored to health,

Moreover, National and common Diseases differ among themselves. Becauf some of them totally depend upon the inclemency of the Region, and others in part only. The mortification of the parts seemeth to be of the first kind which befalleth men in the Northern Tracts near the Poles. For the whol Effence of the Diseas may be ascribed to the cold and sharpness of the Place. Of the second kind the Venereous Pox anong the west-Indians seemeth to be. For there it is conceived to be partly gotten by impure Copulation, ind partly to be contracted from the Infalubrity of the place. In like manner the Bloody Flux is predominent n Ireland, depending partly upon the constitution of he place, partly upon an erroneous and prepofterous liet. And thus much in general be spoken of the diffeences of common Diseases. In the next place we must enquire

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enquire why this Diseaf is more rise in England than in other Regions? And by the way it must be observed, whether, and how far forth this Diseas may be said to be Natural to English men?

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First, it must be observed, that England is an Island which borroweth some humidity from the adjacency of the Sea, and some frigidity from the distance from the Equator, then that it aboundeth with innumerable fountains, discovering their Springs almost in al places. Laftly, That it is watred with many and frequent showers of rain more than other Regions. All which things do sufficiently attest the frigidity and humidity of the place. Seing therfore that a cold and moist distemper is a part of the Effence of this Diseas, we may easily infer that the bodies of the Inhabitants are here more inclined to those distempers then in other hot and dry Countries.

If therefore you demand, whether this Difeaf, at least confidered in this part of it, may rightly be faid to be natural to English men?

We anfiner, That in fom fort it may (although perhaps not properly) namely, fo far forth as the fame is attributed as natural to other Regions, alike cold and moift (although perhaps it may not yet be obferved in them.) For those Countries are as readily disposed to imprint a cold and moift diftemper as *England* it self. Yet it must be observed, that a cold and moift diftemper is a common part of the Effence of this Diseas, and that it alone doth not manifest the Affect, for every cold and moift diftemper doth not introduce this evil. Wherfore although we grant, that an excess of cold and moifture may be imputed as a fault to *England*, yet we deny that from thence it can be rightly inferred that the whol Difeas is common and Natural to English men.

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Moreover, Some Countries may perhaps be found aut far exceeding England both in cold and moisture, as cotland, Holland, Zealand, Ireland, and Denmark, and he like ; wherin notwithstanding this Difeas hath not een observed to appear much. Therfore if this Difeal e not rightly imputed to these Regions, wherein that ommon caule is predominant; namely, the excels of old and moisture. Certainly neither can it justly be nputed to England, by reason of that common Cause, thich is here less prevalent. Again, The coldness and wistness of this Kingdom doth not so far transcend a mediocrity, but that by outward and inwaad applicatins, exercifes and the like; namely, a right use of the x things not Natural, they may be fufficiently correctd to the cashiering of that imputation, Wherefore if rese things be so, namely, if a cold and moist distemer be only a common cause of the Diseas, if other Reions wherein this Affect hath not yet been observed to nake any impression, are at least equally obnoxious to old and moisture : Finally, if those distempers may be revented by a Regiment of diet appropriated to the lace ; certainly the reason drawn from the coldness and noisture of the Climate, which even now we produced o thew why English men should be more frequently nvaded with this Difeas then others, will be very weak nd insufficient, so that we can by no means place our ontent in that alone, and therefore we intended nohing more by that affignation, than that England doth nore dispose the Bodies of the Inhabitants to this Afect than hotter and drier Regions do the Bodies of heir Inhabitants. And to we proceed to the fearch of he other causes of the rifeness and frequency of this Affect.

In the second place we can note that England is very Q fruitful

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ruitful and Child-breeding being sufficiently favora ble both to Conception and Child-bearing, and ne ubject to caufe abortions. Now from hence it come to pais, that not only ftrong and able bodied men, an fuch as are endued with perfect health, but the weak an fickly perfons do alfo generate; weak & unfound wome likewife, and fuch as are prone to a confumption, d conceive, carry their children nine months, and brin them forth in a decent and laudable manner. But it is n wonder if the Iffue begotten by fuch matter, and whic oweth its life almost to the clemency of the place alon fhould be feeble and languid, and very subject to this D leaf. For as much as the very benignity of the Regic may in this respect be the occasion of some infirmity i the Islue. For as barbarous People in time past by a inhumane experiment upon their new born infant namely, by dipping their naked bodies in the colde water, deftroyed the weak ones with the extremity of th cold, and gave education only to the ftrong ones, who vigorous Conftitutions overcame the injury of the cruel policies, purposing by that inhumanity to have universal race of strong & lusty people. So on the contra the very clemency of the place promifcoufly prefervir the languishing and weak Children together with the Itrong&healthful,doth minister an occasion of bringin forth a mixt kind of people fome ftrong and fome we and fickly. Yet leaft any should mistake, we do n mean that all the Children in this Kingdom which a born of weak and fickly Parents are fubject to this A fect. For although if one or both of the Parents be is firm, the Children will be infirm; yet it is often feen th when the Parents have been very ftrong and healthfu yet their Children have been very subject to this Difea Wherefore neither do we reft in this fecond caule, b anothe

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another must yet be enquired out, from whence we may derive a sufficient reason of the frequency of this evil.

We affirm therfore in the third place, That the rifenefs of this Difeaf in England hath been much promoted, by that long and fecure peace, which we enjoyed before the first breaking of it. For by this the more wealthy famiies, which were first invaded by this evil, and which toth still infest them more than others, had addicted hemselves to idleness and a loose and effeminate life, and herupon they fel into a moister, softer, and degenerate Constitution, and such as was less purged and cleansed from excrementitious humors, and by consequence their Children were even procreated obnoxious to this Afiest. You wil fay, that Scotland and the Northern parts of England, although they enjoyed peace and fecurity, tet they are selection observed to fal under this Afflition.

We answer, True it is that Scotland and the Northern varts of England are less affected with this Diseas than he Southern and the Western. In the mean time perdventure the first impressions and rudiments of it are ar more frequent in those places ; yea, and in some foraign Countries, then is commonly beleeved. For alhough this evil be very familiar in the South and Weft arts of this Kingdom, and very wel known among the Julgar fort, yet we have many times feen Children aflicted with it in a flight manner, of whom neither the Parents nor others of the fame family did suspect the east evil : Yea, we have known many, whom none of heir friends thought to be affected, to be healed without ny help of Phyfick by the fole benefit of the increased eat, or by the increase of age or exercises. How much alier therfore may the first rudiments of this Diseas be con-0 2

concealed from them, to whom it is lefs familiar, and among whom it feldom ascendeth to that degree, that they need to implore the Phyfitians help. We conjecture therfore that this Diseal is more frequent then is commonly beleeved both in Scotland and the Northern parts of England ; yea, and in some Countries wherin the people are ignorant of it to this day: but in those places they are fo gently tormented with it, that they are feldom condemned to the hands of the Phyfitian. For that is the cuftome of the Vulgar fort, not to fend for the Doctor (especially to Infants and yong Children) unless the wehemency of the Diseas constrain them. However the matter is, we seem not yet to have given fatisfaction to the objection propounded, Why the South and west Country men of England are more grievoully or frequently conflicted with this Diseas, then the Northern People and the Scots, although both Kingdoms equally [bared the bleffing of the lafting peace and fecurity. Therfore we grant that a higher reason yet must be given for this difference. Fourthly, therefore and laftly, we fay, That the cause of this difference is the affluence of all good things in these Southern and Western Countries of England. For this part of the Kingdom is much the more fruitful, rich and florishing, and abounding with al manner of allurements to pleasure. Therefore it is no marvail if the cuftoms of men do first generate here, their Spirits decay, and the ftrength of their Bodies begin to diffolve now, that this degenerate and delicate manner of living doth weaken families, is a truth fo lolidly and constantly attested by Historians, that it were an impertinence to offer any proof of it. For you may observe that the most Noble and Gallant Families have been very much reproached for these very causes; yea, and sooner or latter somtimes totally extinguished, and to much the fooner as they have the more refuled to un-

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dergo labors, and to innure themfelvs to malculine exercifes. Neither are families ever plunged in a greater danger of degeneration, then when they abound with algood things, and lying open to plenty and fecurity hey are most powerfully invited to delicatness, idlenessind effeminatenels, without any labor, care, and foliciude. Who was more rich, fecure, and effeminate, than Solomon? He left Reboboam a degenerate Son behind im. And perhaps the family of Henry the 8th. is exinct for the like caufe. We could heap up almost innunerable examples to prove this, if it were needful. Howver it be, we see plainly, that this Diseas doth more requently and vehemently invade the families of the realthy, than the cottages of poor men, and therfore it ught not to seem strange that it likewise infested the icher and more pleafanter parts of the Kingdom; nam-, the South and West, before the North parts. But refe things shall suffice to have been spoken concerning nis matter. It remaineth only that we enquire, whether nd how far the three last assigned causes relate to the enomination of a Common Difeaf, and whether in revect of them, this Diseas may be ascribed to England as mmon and Natural?

You must know then that these three causes in as much they depend upon the Region, are not properly caus, neither by their own nature do they produce this afct, but that they are only an occasion wherby this Diaf may accidentally arife. For in themselves they deote the laudable conditions of a Country, at least they der not what is culpable in it. For who can accuse his ountry, because it favoreth the procreation of Chilen, much less make outcries against it, because it enyed long and secure peace. Finally least of all calumiate the pleasantness, fruitfulness, and affluence of all Q 3 good

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good things : For all these things are in themselves blesfings, and conditions to be wished for in a Country. Seing therfore as we have shewed above, that a Disease properly common doth imprint fom mark of a vitious Conftitution to the place to which it is ascribed ; It is impoffible that any Diseas can be attributed unto it as properly Common, by reason of the commodity of the Region. Wherfore (that we may comprehend all in a word) although this Diseal in respect of the coldness and moistness thereof have a fomentation in the very Conftitution of the Country : Although also that it borrow three other occasions of invading from the Country; Yet seing that those diftempers may be prevented by a due observation of the Regiment of Health appropriated to the place ; and feing that the three other occasional causes, are not properly blamable, but defirable, we must affirm that this Diseaf is not properly Common to England. And so we have put an end to the fearch of the caufes of this Difeaf.

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CHAP. XX.

be differences of the Diseas, called the Rachites.

The regard of the concourse of the Rachites in more than any man would easily imagines fome where of are of great importance, and oiers less confiderable we have resolved here briefly to opound the chiefest. For the knowledg of them is not up profitable to define the prognostical causes, wherby evarious events of a Diseal are distinctly fortold acarding to those differences; but it also much conduceth oth to the prevention and the cure of a Diseal; namly, iat by a confideration of them apt and fit remedies ay be chosen.

Now these differences arise either from the Effence of ne Diseal, or from the causes therof: or lastly, from Diales conjoyned with it. The Effence of a Diseal may vamany ways: First, By reason of the parts of the Seindary Effence either present or absent. Secondly, In gard of the magnitude of it. Thirdly, In respect of e vehemence. Fourthly, in regard of the Spirits; And ily in respect of the times.

We grant indeed, That there is a certain agreement tween fom differences comprehended under these tiis; yet seing that the formal conceptions of them are stinct, it must be confessed that they deserve distinct

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confiderations. For although a Difeaf, even in that very refpect may be called greater, becaufe it containeth many parts of the Secondary Effence in the fame Patient yet this is a different & diftinct confideration from that of the magnitude of that Affect. For the magnitude properly hath refpect unto the degree of recefs from the Natural State, and not to the Nature of the part of the Effence either prefent or abfent, for hereupon refulteth more then a gradual difference. In like manner fome of the other differences do perhaps fignify the fame thing, in a coucrete and reftrained acception, which notwithftanding in an abftracted and formal confideration denote a diverfity. But let us proceed.

The first difference of this Diseal is that which arifeth from the presence of few or many of the parts of the Secondary Effence therof. For although all the parts of the Primary Effence are perpetually prefent with the Difeas it felf, yet there is no necessity that all the part: of the Secondary Effence should be always present. For these are after-comers to the first Essence, and do by de grees come upon it : Yea, fome of them may be fo high ly intercepted by the intervention of refifting caule: that they may not at all appear. Hither you may refe that difference, which we propounded at the foot of the precedent disputation, and which we shewed might polfibly, though indeed very rarely, befal those that were grown to ful age. But because our purpose here is only to handle the Difeaf as it is incident to Children, w shall be content to pass by that difference thus noted by the way. But even in Children themselvs there somtime happen some parts of the Secondary Effence, which have a most strict conjunction with the Primary Essence, a leaft they fucceed them in the order of Nature. For the Primary Effence hath the efficacy of a caufe, which in Natur

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Nature doth ever go before the effect. But in order of time fome parts of the Secondary Effence do confpire as it were, and concur with the Primary Effence in the invalion 5 and others again do come afterwards, these we must here distinguish. For the former fort are absolutely inseparable, the latter fort separable from this Affect.

The infeparable parts of the Secondary Effence may be reduced to thefe Heads. First to the afflicted Tone of the first affected parts. Secondly, to the unequal and imperfect distribution of the Vital Blood. Thirdly, to the too final participation of the Vital influx in the first affected parts. Fourthly, to the Secondary faults of the Animal Conftitution. These faults are fufficiently unfolded above in our discourse of the Secondary Effence of this Diseas; where likewise because of their strict carriage with the Primary Effence, any man may perceive with eas(though they have a casual dependance upon the Primary Effence) that they begin together at the same time.

But al the Organical faults which we have also already recited, are found to be feparable, and fomtimes actually feparate from this Difeaf. For the magnitude of the Head, and the leannels of the Joynts, the crookednels of the Shank-bone, or the Elbow, the inflexions of the Joynts, the fharpnels of the Breaft, do not neceffarily accompany this Difeaf prefently from the beginning, but in process of time they bewray themfelves by degrees and fupervene upon the Affect. And although the Confumption of the parts, which in fome fort hath an influence into the faid faults, may be faid to be prefent in fome flight degree from the beginning of the Difeaf, yet is it indeed only a Symptom, and not a Difeaf; neither is it able prefently to produce those Difeafes of magnitude,

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rade, Figure and Place. Moreover it is not necessary, that these Organical faults should equally and at the fame time invade one that hath the Rachites, we grant indeed that the extenuation of the first affected parts, when the Diseal is of some continuance, doth alwaies and neceffarily fucceed it, neither can it afterwards upon the perseverence of the Diseas be removed, that it is likewife a principal part of the separable parts of the fecondary Effence; yea that the extenuation whilft it is making doth immediatly follow the imalness of nourifhment of the first affected parts, almost no otherwife than the imalnels of nourifhment immediatly followeth the primary Effence of the Difeas in the said parts; but withal we affirm that the extenuation being made which is it self a secondary part of the Diseas wherof we discourf, doth neceffarily presuppose the motion and time of the Discal, and that it cannot be in the first moment of the existence of the Diseas. We say moreover that Phyfitians do not acknowledg any change made in the parts exposed to the fenf, which doth not yet appear to the fense, and by consequence they affirm that extenuation befalleth the first affected parts, til it be made obvious to the fenfes which certainly doth necessarily prerequire some duration of the Diseas. But the improportionat magnitude of the Head, doth begin almost at the lame time with that extenuation of the first affected parts, but it may fo fall out, if a confuming Phtifick be joyned together with this Diseas, that that magnitude of the Head may vanish before death, as we have already proved by one example in our Anatomical Observations. The Magnitude of the Head therfore is more separable from this affect than the extenuation of the first affected parts, for this cannot be removed without the Difeas be cured. The flicking out of the Bones appear

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appear somtimes sooner, somtimes later, and they somtimes grow out more, somtimes less, but upon any long continuance of the Difeas they are feldom (if ever) seen to be absent. The narrowness of the Breast doth not appear, but after a long time when the Diseas is confirmed, and for the most part is the forerunner of a Ptyfick. Again, the crookedness of the Bone in the Arm, and the Shank-bone, as also the inflexion of the Joynts may be absent through the whol courf of the Difeal, and may be more or less present, and indeed is the most chanceable among those things which follow this affect. We conclude therfore that these Organical parts of the Secondary Effence are separable after that manner as we have faid, and as a more or fewer of them are present, so the Difference of the Diseas is constituted, as being more or lefs compounded.

The Second Difference of this Diseas resulteth from the magnitude therof. And the magnitude is estimated from the greater or leffer receis from the natural condi-There is a vast difference in this Diseas in tion of it. respect of the magnitude. For some are so gently affe-Eted with it that you would fcarce suppose them to be fick. They complain of nothing, they eat, they drink, they fleep like those that are found in health; only they play with more unchearfulness,- and shew forth fome other very flight figns of fickness, By the only benefit of Nature likewife without any affiftances of Art they perfectly recover, neither their Parents, Nurfes, nor the By-standers fo much as once subjecting that they are affected with this evil. On the contrary, Others are fo vehemently afflicted that they cannot be refcued from death or the danger of imunient death by the most approved remedies.

The Third Difference is from the vehemence of the

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affect. Now this is valued by the violent motion of the Difeaf and the refiftance of Nature, and alfo by the fharpnefs of the conflict of thefe things among themfelves. This Difeaf, although it be otherwife very great, yet is it flow in motion unlefs fome fewer, or fome other urgent affect be conjoyned with it, and ftir up the Nature of it to a fiercer opposition, yet is the motion therof fomtimes more vehement, and fomtimes very dull, and thereupon it happeneth to be differenced.

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The Fourth Difference, is from the ftrength of the fick Child or Infant. This is effimated by the greater or leffer prefence of those things which are according to Nature. Hither belongeth the condition of the temperament, the plenty of inherent Spirits, the activity and ftrength of the *Tone*, the vigor of the Vital and Animal Constitution, and the ftructure of the Organs. For as these are more or less obedient to the prescriptions of Nature, so their Spirits ought to be judged more or less ftrong, and according to them the evil must be determined the more or less dangerous. For this cause the yonger Children caeteris paribus are more dangerously affected than the elder.

The Fifth Difference, is from the times of the Difeal. And this difference in a qualified and limited acception includeth almost all the precedent; for what difference soever hapneth to any Diseas, must necessarily happen at some time of the Diseas. Physitians reckon up four times of a Diseas: The Begining, the Augmentation, the Consistance, and the Declination. But it must be noted that Physitians are not so exact in diftinguishing the seasons of things as the Phylosophers, for they do not restrain the beginning of a Diseas to that point of time wherin the Diseas begineth; but so far they extend it, till there appear so great an alteration of

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of the Difeaf, that it may be known by certain and fenfible evidences. For the indivifible begining is not the time, wherin the Phyfitians help is perfected, and why fhould that diffinction of a Difeaf be profitable which could not be grounded upon any alteration of it known to us?

Galen therfore hath rightly deduced the times of Feavers and Inflamations from the understandible alteration of them : that is, The begining from the crudity of the matter caufing the difeaf, the augmentation from the manifest coction therof; the state from the Excretion, and the Declination he computes from the Reduction of the Reliques to the Natural state; and indeed these times do fweetly agree in the general, and differ in particular from the crudity and coction of Feavers and Inflamations. But the truth is, That this diffinction of times hath not the like fuccess in many other difeases: For in these Nature doth not so regularly proceed from crudity to coction, fo to expulsion, and at last to reduation; neither by thef can we truly and fafly know the progress of the difeas. Other alterations therfore of these Diseases, such as are more cleer and eafily known must be weighed. Yet we grant that even thes diseases when they are directed to health, do run thorow those four feasons, the begining, the augmentation, the state or confiftence, and the declination. But when they tend to the destruction of the Patent, they scarce attain to the confistance, but are daily more and more augmented even to the left period of life. Wherfore in thef the augmentation admitteth the greatest latitude, neither doth it deferv a higher difference, or a lower fubdivision: but when an indifferent flate of a difeaf of the fame kind is made the Middle term between the begining and the end of fuch an augmentation, than we can convenient-

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ly diftinguish. The encreas into an augmentation on this fide, or beyond, or beneath, or above the confistance. An encreas of the first kind about the confistance we may cal a *simple encreas*, in regard that it differeth not from the thing it felf commonly received by that name, an encreas beyond or above the state, we call an encreas excressent, excessive, transcendent and desperate.

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Moreover, Two kinds of declination may be observed in a Diseas. The first is legitamate when the Difeaf fimply declineth towards health and recovery. The later is spurious, when a diseas remitting changeth into another of a different kind. And so although there are in thos that recover health, only four times of a difeaf, yet in others two more differences may be discerned : Yet it must be noted, that thef fix times are never to be found in the same diseas, or the same patient, but where there is the fame difeas in the Species in divers subjects. Let us now apply these things to the present affect. We affirm therfore that fix differences of this difeaf do occur in respect of the times therof. For it hath a beginning, and may be called incipient : it hath an encreaf, and may be faid to be confirmed; it hath a ftate, and then it it may be termed consistant ; it hath an encrease beyond the ftate, and may be called desperate : it hath a tru declination, and may be faid to be an affect remiting or fimply declining; and it hath a spurious declination, and may be called a change, as when it chancheth into fom other difeaf. Of al which we wil speak in their order. First, The Rachites is called a Diseas begining, when

the first Rudiments and impressions thereof are, though very obscurely, first observed, and before there hapneth any manifest extenuation of the first affected parts.

Secondly, This difeaf is faid to be confirmed, when an evident and manifest extenuation of the first affected parts

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parts become obvious to the Senfes. And here the Reader perceiveth we do not diffinguish these two times from crudity and coction, but from another alteration of the Body, namly, The Extenuation made in the parts first affected; for the begining of this difease can no ways be different from the encrease thereof by crudity and coction: But otherwise, so far as the nature of the thing is capable of it, we shal willingly follow the example of *Galen*, and as he diffinguisheth the encrease from the begining by the manifest coction, so we also put a difference between the times in this affect from a manifest alteration, namly, the extenuation made in the faid parts.

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Thirdly, This difeaf advanced to its confiftence, is that, which having attained the highest vigor and exhaltation, is arrested, and for a time is neither sensibly encreased, or lessened, but continueth at a stand.

Fourthly, This difeaf exceeding the Mediocrity of the confiftance is called defperat, namly, Becauf in magnitude and vehemence it furpaffeth the very frate of the fame difeaf in another Patient indifferently affected, and withal is continually encreafed, neither is there any hope but that it will daily encreaf til it hath altogether fubdued and diffolved the Patient For which cauf this condition of a difeaf is termed defperat.

Fifthly, This difeal is faid to be truly remitting or declining, when the Effence thereof is by little and little diminished, and when the Signs and Symptoms of it are daily mitigated.

Sixthly, This difeaf is faid to be illegitimatly declining, or paffing into another difeaf of a diverf species, when the Effence, Signs and Symptoms therof are so leffened, that new ones of a different kind, and perhaps more outragious appear in their stead. Thus the Rachites frequently degenerat into a Consumption, a Hectick,

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ctick, and fomtimes perhaps into a flow putrid Feaver; yet for the most part the same diseas doth accompany thes supervening affects to the disfolution of the Patient. And let this suffice concerning the differences of this diseas deduced from the Effence.

This diseas in like manner in respect of the Caules is as it were taken into pieces, or divided into parts, namly into a natural affect, and into an after-coming or newly contracted malady. Again, This difeas may be termed natural in a twofold fenf : In the first properly, As when the Sick is born actually affected with this difeaf. In the later improperly, when the Patient at his birth is not actually affected with it, but ftrongly disposed by his native principles to fall into it. If it pleaf the Reader to fummon those things to his memory which were faid above concerning the causes of this Effect on the Parents parts, he wil eafily conceive the reason and foundations of this difference, and confequently that wil excuse us from any further explication : Only we ad, that this difference is of great ule in the judicial part of cure, which confifteth in applications antidotal and preventive, but it is not of so great moment in the Method of Cure. In like manner this Affect is meerly coming after, when being fomented by no Natural disposition, it is newly contracted after the birth: & here also it is twofold. For it either succeedeth som foregoing Diseas; or it is immediatly produced by an erroneous use of the fix non-Natural things : We have sufficiently discoursed of both, where we hammered out the caufes of this Difeal after the birth, and thither we direct the Reader. Again, this Diseas admitteth som differences by reafon of other Diseases wherwith it is conjoyned in the same subject. It must not be expected that we should give in a Catalogue of all Difeases, wherwith this Affect

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fect may poffibly be conjoyned, we shal only reckon up those which ate the usual Companions of this Malady. Som wherof have a certain dependance upon this Diseas and the causes of it; others have not any, or at least not any worthy of a distinct confideration.

Of the former kind are a Hydrocephalus, the faults of breeding Teeth, an Asthmasthe Ptysick, an Hectik feaver, a slow, and erratical Feaver, and the Ascites, which is that kind of Dropsy when water hath gotten between the flesh and the Skin.

The Hydrocephalus hath a great correspondence with this Affect, seing that this Affect also doth for the most part suppose an increas of the Head preternaturally encreased, and an overplentiful afflux of the Blood unto the Brain by reason of the largeness of the Arteries thither extended. And hereupon it easily coms to pass that theBrain being oppressed wth the abundance of the Blood, must some needs suffer the more serves portion therof (as being the most permeable) to evaporate or sweat out into the Ventricles and cavities within the Menynges, and by consequence to produce the Dropsy of the Brain. But this, as we have already noted, doth always appear.

The faults of breeding of Teeth also are some justly associated to this Diseas going before. For it is well known that they who are affected with this Diseas do commonly breed Teeth with extream pain, and many times the Teeth themselvs fal out by pieces. But we have above reduced this fault to the unequal nourifhment of the parts, and there the Reader may find further satisfactions. In the mean time it must be observed, that a painful breeding of Teeth may likewise precede this Diseas, and further force of a caus in reference to this fubsequent evil, as we have likewise shows.

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Moreover, An Afthma or difficulty of breathing doth familiarly follow upon this Affect, becaufe the Blood is fomwhat cooled in his circulation thorow the first affected parts, and is rendred more thick, viscous, and fluggiss in motion, neither is it always perfectly corrected before its return to the right Ventricle of the Heart. Wherupon being unapt for passage, it is powred back from the right Ventricle thorow the Arterious Vein into the fubstance of the Lungs, and for that Reason doth easily introduce obstructions, hard tumors, difficulty of breathing, sometimes inflammations, impostumes, Ulcers, the Ptysick, the Dropsy of the Lungs, a Hectick Feaver, or elf a flow erratical Feaver.

An Afcites is also fomtimes consociated with this Affect. But whether it proceeds from a copious flowing of the Blood to the Bowels of the Abdomen, we dare not yet atteft for an undoubted truth. Yet certain it is that the flowing of the Blood to this Belly is very copious and fufficiently active in this Difeas. For the Liver is great, and the other Bowels are observed to be rather more ful than ordinary, than pined away. Wherupon it may happen, that that watry moifture from the Bowels which are opprefied with a fulness may be carried into the hollowness of the Abdomen, but we affirm this with a diftruftful confidence, because we have not yet given our selves ful fatisfaction in this matter.

Nevertheless these recited Diseafes may happen to Children although the *Rachites* have not preceded, and may be the caus to introduce it. Yea, they may likewise com upon this Diseas from other causes; as for example, by some errors in the Regiment of health; although in this case also this Affect may be partly guilty, if it went before : And thus much of complicated Diseases of the former kind.

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But of the latter kind, namely, fuch as have little or no nependance upon this Affect, are a malignant Feaver, the French Pox, the Scurvy, and the Strumaticall Affect.

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First it is certain, That a Malignant Feaver may come upon this Affect, because for the most part it is produced by infection, from which this present Affect leaveth not Children free, we ad only, that this Feaver doth feldom or never ow his Origin to this Difeas.

Secondly, If the French Pox chance to be complicated with this Difeaf, it is either derived from the Nurfes inection, or from the Parents by Inheritance. For it is a Difeaf altogether Diffinct from this, and hath fcarce iny affinity with it.

Thirdly the Scurvy is fomtimes conjoyned with this Affect. It is either hereditary, or perhaps in fo tender a Confficution contracted by infection, or laftly, it is proluced from the indifcreet and erroncous Regiment of the nfant, and chiefly from the inclemency of the Ayr and limat where the Child is educated. For it fcarce holdth any greater commerce with this Difeaf, then with oher Difeafes of longer continuance, wherin after the ame manner the Blood in time contracteth for the moft art this peculiar infection, yet it must be granted, that his Affect doth fom what the more difpofe to the Scury in regard of the want of motion and exercife.

Fourthly, and laftly, The Strumatic at Affect doth omtimes affociate this evil. But it is credible that it owth more to other caufes proper unto it, then to this preedent Difeaf. Although we deny not, but this may miifter fom occasion of invading, in as much as it renreth the humors more viscous and gross.

Some other Difeafes are peradventure fomtimes comlicated with this, but because they happen exceeding R 2 rarely

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rarely, and have yet fcarce fallen under our observation, we pass them by, for the present and proceed to the figns of the Diseas, and the difference of the figns. a: What

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CHAP. XXI.

The Signs of the Rachites, and first the Diagnostical Signs.

*** * E diftinguish the Signs of the Diseas into *** *** three Chapters. The first containeth those Signs which demonstrate the presence of the **** Affest, and are called Diagnostical. The fecond containeth those that distinguish among themselvs the differences of the Diseas, and these are called, Diacritical, or Discrepant. The third comprehendeth those Signs which presage the event of the Diseas, and they are termed Prognostical. In this Chapter we shall not treat of the first kind.

We divide the Diagnostical Signs into Pathognomonical and Synedveontal. And here the Physical Authors feem to be more strict in the definition of the word Pathognomonical, then the necessity of the nature of the matter doth require. For they wil have it to be Insepavahle and (as Logicians speak) Proprium quarto modo that is, to agree, omni, soli, & femper. Indeed it must be granted, that such an Inseparable Sign, or, Proprium quarto modo, must be according to the most proper sent a Pathognomonical Sign. F or whether it be present, on whether

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whether it be absent, it is ever demonstratively fignificant : When it is present it certainly witneffeth the speties of the present malady, and being absent it sheweth hat that species of the Diseas is not present.

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But when we truly and ferioufly confider how feldom uch Signs as these occur and of what useless confideratiin they will prove, the knowledg of them being thus retrained; we are induced to think of the amplifying of he ufual fignification of the word. For although the Ancients to supply this detect, did substitute oud pories αθογνωμονικήν in the place of one true Pathognomoniof Sign strictly taken, and we our felvs do most willingr accept of, and approve this very fame ou Seound ; yet ing that this oudeout doth feldom appear from the egining of the Dileas, and by consequence seldom obineth the reputation of an Inleparable Sign, it necefuily followeth, that it also can but feldom perform the fice of a Sign, quarto modo proprie, and therfore alfo hat this notion is reduced to an extream narrow use. We re compelled therfore that we may fully prevent, or aoid this inconvenience to extend fomwhat higher the gnification of a Pathognomonical Sign ; yet lo, as that e wil abate nothing of the Nature and certitude of the gnification.

Therfore we define a Pathognomonical Sign to be mwhat appearing about the Patient, which certainly and infallibly demonstrates the Species of the Diseas, and in this extended fens it may be divided into a Sign is special of the proper only. Modo fecundo is wit, becauss it is competible only to one kind of Diseas, although not always. In like manner the Paththotomonical Syndrome, or Concours of Symptoms may be wided into two kinds, respectively Analogical to those R 3 afore-

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aforesaid. For somtimes it beginneth with the Diseal it felf, and doth inseparably affociate to the very last period. So the pricking pain of the fide, and acute Feaver, the difficulty of breathing, and the cough, if they be taken collectively, they are indeed a Syndrome, but fuch an one as is always equivalent to one fimple Pathognomonical Sign of the first kind, and doth inseparably accompany a Pleurific from the first beginning to the very end. But somtimes the Syndrome or concours of Symptoms is not compleat and perfect from the begining of the Diseal, yet afterwards it is made perfect by the intervention of the other Signs, and doth infallibly denote, the species of the Diseas. For example, in the smal Pox upon the first begining of the Diseal, the Syndrome, is fo incompleat, that it doth not yet certainly determine the species of the Diseal; but afterwards the Pox breaking out of the Skin very thick, and tending to maturation, then the Syndrome is finished, and the species of the Diseas is put out of al doubt.

But that a Sign proper to one Diseas alone (although not in the fourth manner) whether it be simple and solitary, or compounded of a concour! of many together, may suffice, when it is present to make a Sign truly Pathognomonical : It is manifest from herice, becauf, when it is prefent, it doth as certainly and infallibly denote the species of the Affect, as a Sign doth, which is proper in the fourth manner. For that which agreeth to one species only, when it is present, doth necessarily infer the presence of that species also. Although therfore that a Sign proper in the fecond manner, be not Inseparable and where it is ablent, doth not determine the ablence of the Dileal, as a Sign doth proper in the fourth manner ; yet when it is present, it is as we have faid of the lame valu and certainty. For Phylitians do effeem the dig-

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dignity of the Sign by the certainty of the fignification. For to that purpole they enquire out the figns of a Dileal, that they may attain to a certain knowledg therof. Therfore leing that Signs proper in the fecond manner are equivalent in respect of their certainty, when they present to Signs proper in the fourth manner : we shall here comprehend them under the extended fignification of *P athognomonical* Signs.

You may fay after this manner many after appearing signs may be reduced to the *Pathognomonical* and are onfounded with them. Be it fo, provided that they do nfallibly denote the fpecies of the Difeaf. For in this efpect they are worthy to be fevered from the other afer appearing Signs, neither wil any confusion follow rereupon in the method of the femeiotical art, but raher the valu and dignity of the Signs wil by that means re more plainly and eafily obferved.

Of the Synedremontal or affident Signs we have nohing of moment to fay, but wil directly proceed to the igns themfelvs as they are to be reduced into order. Yet to exact method muft be expected from us, becaufe for he most part the Signs flow from fo many feveral founains; that they wil fcarce fuffer themfelvs to be marshalid into any accurate order. Wherfore, that they may e constituted which have fome affinity among themilvs, we have reduced the figns of this Affect to the fubequent Method.

We shal propound therfore

First, The Signs which relate to the Animal actions. Secondly, Those which have reference to the irreguur Nutrition.

Thirdly, Those that concern the Respiration. Fourthly, Those that appertain to the Vital Influx. Fifthly, Certain vagabond and fugitive Signs redu-R 4 cible cible to no Classes. Under each of which we shal subjoyn the valu of the Signs. #of th

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First the Diagnostical Signs relating to the Animal Actions, are these. The loosness and softness of the parts. The debility and languidness. And finally, the flothfulness and fupefaction.

First, A certain laxity and softness, if not a flaccidity of all the first affected parts is usually observed in this Affect. The Skin also is soft and smooth to the touch, the musculous flesh is less rigid and firm; the joynts are cafily flexible, and many times unable to suftain the body. Wherupon the Body being crected it is bent forwards or backwards, or to the right fide or to the left.

Secondly, A certain debility, weaknefs, and enervation befalleth al the parts subservient to motion. This weakness dependeth much upon the laxity, softness, and lithernels of the parts aforefaid : for which reason we have placed those Signs before this, as also this before the flothfulness and stupefaction in the next place to be enumerated, which ow much both to the looinels and foftness. Moreover, this debility begineth from the very first rudiments of the Diseas. For if Children be infested within the first year of their age or therabouts, they go upon their feet later by reason of that weakness, and for the most part they speak before they walk, which amongst us English men, is vulgarly held to be a bad 0men. But if they be afflicted with this Diseal, after they have begun to walk, by degrees they stand more and more feebly upon their legs, and they often ftagger as they are going, and fumble upon every flight occasion : neither are they able to fuftain themfelvs long upon their legs without fitting, or to move and play up and down with an ufual alacrity, til they have refted. Laftly, upon a vehement increase of the Diseas they totally lose the ute

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use of their feet; yea, they can scarce sit with an erected posture, and the weak and feeble Neck doth scarcely, or not at al suftain the burthen of the Head.

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Thirdly, A kind of flothfulness and numbress doth invade the Joynts prefently after the begining of the Difeaf, and by little and little is increased, fo that dayly they are more and more averse from motion. The Yonger Children who are carried about in their Nurfes arms, when they are delighted and pleafed with any thing do not laugh fo. heartily, neither do they ftir themselvs with so much vigor, and shake and brandish their little Joynts, as if they were defirous to leap out of of their Nurfes hands, also when they are angred they do not kick fo fiercely, neither do they cry with fo much fiercenels as those who are in health. Being grown greater, and committed to their feet, they run up and down with a wayward unchearfulness, they are soon weary, and they love to play rather fitting then standing, neither when they fit, do they erect their body with vigor, but they bend it fomtimes forwards, fomtimes backwards, and somtimes on either side, seeking som props to lean upon that may gratify their flothfulnels. They are not . delighted like other Children with the agitation of their bodies, or any violent motion; yea, when the Difeaf prevaileth they are avers from all motion of their limbs: crying as they are at any play that is never fo little vehement; and being pleafed again with gentle ulage and quiet reft. In the interim, unless som other Diseaf, Symptom, or cauf of fickness doth com between, they are moderate in fleeping and waking, they are ingenious, not ftupid, but for the most part of forward wits, unless fom. other impediments arise, their countenances are much more composed and severe than their age requireth, as if they were intent and ruminating upon fom ferious matter. Theic

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These Signs being taken together, unless they refult from fome evident warinels, or proceed from fome primary affect of the Brain (which indeed hapneth very feldom in this tendernefs of age) do constitute a sufficient Pothognomonical Syndrom of the first kind, & where they are present together, they certainly witness the prefence of the Difeaf, & when they are ablent together they infallibly atteft the Effence of this Difeal. But if at any cime a wearifomnels do bewray any Feaverish, or any other like Signs, they may eafily be diftinguished from these, both because the reasons of the weariness have gone before, and also because the Signs from thence arifing do fuddenly break out, and affoon vanish. But in this affect the ligns do invade by degrees, and perfevere, sor else they are dayly more encreased. Now the primary Difeases of the Brain are diffinguished by their proper Signs. And thus much of the Signs which relate to the Animal Actions.

The Signs which belong to the diffroportioned Nourishment of the Parts.

Of how great moment the *Alogotrophy*, or unequal Nourifhment of the Parts is in this affect, we have already fhewed; we fhall here therfore profecute those figns which in fome great measure depend upon it, and we fhall prefent them as if they were to be beheld at one Veiw.

Firft, there appeareth the unufual bigness of the Head, and the fulness and lively complexion of the Face, compared with the other parts of the Body. But although this Sign may presuppose fome motion of the Diseaf before it thine out, yet is the Diseaf to obseure before the appearance of it, that it is accounted in a manner unperceivable t

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perceivable : Therfore commonly this Sign sheweth it felf more or less from the first beginning, and continueth till the departure of the affect, unless (as we have noted before) the pining of those parts supervene from some other caus.

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Secondly, The Fleshy parts, especially those which are full of Muscles beneath the Head which we have lifted among the first affected, in the progress of the Difeaf are dayly more and more worn away, made thin and lean. This Sign doth not prefently flew it felf from the begining of the Difeaf, becauf it pre-requireth some notable motion of the Diseat before it evidently appeareth; yet in time it most certainly is exposed to the fenses, and accompanieth the Diseas to the last step be it either to life or death ; excellently demonstrating the motion and degree of the Difeaf by its encreaf. Moreover this Sign being conjoyned with the former doth at least constitute a Pathognomonical Sign of the fecond kind, that is fuch an one as is proper to this' Difeaf alone ; and where they are prefent together they infallibly denote the presence of this Diseas, although upon their absence they do not equally fignifie the ablence of the Difeaf.

Thirdly, Certain fwellings and knotty excretionces, about fome of the joynts are obferved in this affect 5 thefe are chiefly confipicuous in the Wrefts, and fomwhat lefs in the Ankles. The like Tumors alfo are in the tops of the Ribs where they are conjoyned wth grizles in the Breaft. We have noted abov in our Anatomical Obfervations that thefe tumors are not foituated in the Parts, but in the very Bones 5 although this confideration doth foarce belong to them as Signs, feing that of themfelves they are fearce confidences. This Sign doth alfo fuppofe fome kind of motion of the Difeaf, neither is it emergent

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emergent a Principio principiante, as the Phylosophers phrase it, yet it offers it felf as an object to the senses sooner than any confiderable extenuation of the parts. But where it is present, it conftitutes a Pathognomical Sign of the Second kind, and without dispute witnesfeth the Species of the Diseas.

Fourthly, Some Bones wax crooked, especially the Bones called the Shank-bone, and the Fibula or the small Bone in the Leg, then afterwards the greater Shank-bone, and the undermost and lesser of the two long Bones of the Elbow, but not so much altogether nor fo often; somtimes also the Thigh-bone and the Shoulder-bone. Again, there is somtimes observed a certain shortning of the Bones and a defective growth of them in respect of their longitude. This by chance was omitted above, where we gave the Realon of the Organical faults. Yet this affect doth seem to depend upon the same irregular nourishment; namely so far forth as the nourishment taken in encreaseth the Bones according to breadth and thickness more than length. From hence it comes to pass that some Children long afflicted with this Diseas become Dwarfs. Hither perhaps may be referred that folding in the Wrefts, the Skin it may be having better nourishment and more growth than the Bones of those parts, wherupon it must needs be contracted in the Wrests into a folding or wrinkledness. Finally, to this place also may belong a certain flicking out of the Bones of the Head, especially of the Bone of the forehead forwards. For it concerneth the common kind of viciated Figure and the Alogotrophy of the Bones. Yet this in the Bone of the Forehead doth evidently seem to depend upon the free nourishment of that Bone in his circumference, wherewith it is coupled to the Bones of the fore part of the Head,

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Head, and conftitutes that feam called Sutura Coronalis, which lieth in the foremost parts therof. For herupon it must needs be thrust forwards. And indeed in that place it is plentifully nourished without any difficulty, becaus this Bone in Children is cartilagineous towards that Seam. And this also was pretermitted above where we discoursed of the Organical faultines, becaus we have but lately observed it.

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Fifthly, The Teeth come forth both flowly and with trouble, they grow loof upon every flight occasion, fomtimes they wax black, and even fall out by pieces. In their flead new ones come again though late and with much pain. This kind of Sign, as also that which we noted in the former Article, may be referred to the Synedremontal Signs, becauf neither of these is either perpetually present, or if it be present, it doth not undoubtedly confirm the presence of Disea.

Some have imagined that the Bones in this Difeat are transfigurable like wax; But we have never feen it, neither have we received it from any eye witnefs who was not of fuspected credit. Wherfore we reject this Sign as altogether Fabulous.

Sixthly, The Breaft in the higher progreffion of the Difeaf, becomes narrow on the fides, and flicking up foreright, fo that it may not be unaptly compared to the Keel of a Ship inverted, or the the Breaft of a Hen or Capon. For on each fide of the middle it rifeth up into a point, the fides being as it were prefied down. If any demand whether this Sign be folely apropriated and peculiar to this affect; We answer, That the Breaft may be a little encreased in an Atrophy or Phtifick, and less than the other parts of the Body, and so by confequence it may be narrower : but it can fcarce to fall out according to the change of the Figure without an

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Alogotrophy, namely that which is proper to this Difeaf. Wherfore this Sign also when it is present, although the invalion of it be tardy must be reputed a Pathognomonical Sign of the second kind, becaus when it is present, it certainly denote th the Species of the Difeas, though not on the contrary. And thus much of the Signs which have reference to the unequal nourishment. 103, I

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The Signs which belong to Respiration.

First, The narrownels and sticking up of the Breast already mentioned must be hither referred, wherof we then difcourfed at large.

Secondly, A fwelling of the Abdomen, and an extenfion of the Hypochondriacal parts, which hindreth the free motion of the Diaphragma downwards, and by confequence doth fomwhat interrupt the breathing. Yet it must be noted that the Abdomen and the Hypochondries allo in respect of their outward parts appear very lean and extenuated, but inwardly, namly in those parts which are contained in the Cavity of the Abdomen, they fwell, from whence arifeth this fulnels. This fwelling proceedeth partly from the windinels of the Stomach and Guts, and partly from the bignefs of the Liver and other Bowels. Somtimes also a watry moifture into the Cavity of the Abdomen, introducing an Ascites, joyneth in this conspiracy. This Sign is feldom absent, and yet it mult be numbred among the Pathognomonical Signs, becauf it is common to many other Difeates. Share start by our ic day i year Shares of

Thirdly, A Cough is frequently pretent in this Affect, as also a difficulty of breathing, and many other faults of the Lungs, as Stoppings, hard Tumors, Impofthums

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ftums, Inflamations, a Coalesence of them, with the Pluva, and the like; Yet these scarce deserve to be reckoned among Signs, because of themselvs (whilst the Patient liveth) they are not sufficiently conspicuous.

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Fourhly, Children afflicted with this Difeaf are ofaverf from lying upon their Sides either the right or the left, or at leaft it is troublfom to them; namly, either becauf of the Coalefence of the Lungs with the Plura, or by reafon of fom Tumor on the contrary fide, but to lie with their Faces upwards they are very much delighted. And thef figns alfo being taken together wil not amount to pathognomouical figns of either kind, but fyndreciontal only and are common to other Difeafes.

Signs belonging to the Vital Influx.

First, The Vains and the Artevies are more flender than ordinary in the first affected parts, and less confpicuous than you would expect in a lean Body. But in the Face (respect being had to the gracility aforesaid in the other part) they exceed the just proportion. This perhaps is a *pathognomonical* fign, although it be difficult to be observed, and indeed not yet sufficiently fifted by us.

Secondly, The Pulf in the Wrefts, and the other affected parts is final & weak, otherwife perhaps it is moderat, unlefs when a Feaver is prefent.

Thirdly, A moderate Ligarure cast about the Elbow or the Knee, doth not so soon swel and color the part beneath and above the Ligature with Bloud, as it doth in other found Children of the same age.

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Centain vagabond and wandring Signs:

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First, An appetite to Meat and Deink that is either moderate, or unduly weak, unless where a Feaver is conjoyned.

Secondly, The Excrements of the Belly and Bladder do commonly refemble theirs that are in health, unless fome other Difeaf do interdict it.

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Thirdly, It is observed, that those which are fick of this difease do abominat fweet things, as Syrups, and Junkets condited with much Sugar or Honey : Perhaps alfo fuch things as these are hurtful for them, as also for those which are troubled with the Scurvy, because they thicken the humors.

Fourthly, Some have observed, That they have seen fom Children affected with the *Rachites*, to weigh heavior than others of the same age and stature. If this be fo, it must be attributed partly to the facility, and partly to the inequality of the Nutrition of the bony substance in this Affect. For when this weight can fearce be aferibed to the Flesh, which are here extenuated, it seemeth plain that this must be attributed to the bony substance : And seing that the Bones in this Diseas are not yet obferved to encreas beyond measure in respect of their lon... gitude, it followeth plainly, that it must be imputed to the thickness of them which is superfluously augmented. These are also common signs, neither do they merit a more worthy estemation. And thus much for the Diagaostical Signs, the Diauritical now follow:

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The Signs of the differences of the Rachites, or the Diacritical Signs therof.

*** E shal instift in the same Method we propoun-W & ded above, wher we discoursed of the differences, whose Signs we now enquire after. *** We have above deduced five differences from he very Effence of the Diseas. The first was separable tom the parts of the Secondary Effence, whether they were present or absent. But no other Signs must be exected besides the very pars present or absent, which of hemselvs are subjected to the senses, and therfore they re numbred among the Diagnostical Signs in the second Classis in in the precedent Chapter.

The fecond difference was from the magnitude of the Difeal; the figns of this are many and great, or few and gentle and prefent figns; namely, to be fetched from mong the *Diagnostical* Signs above defcribed.

The third difference was taken from the vehemence fthe affect. This is diftinguished by the flow or quick nereas of the Diagnostical Signs.

The fourth was from the strength of the Sick ; we ave shewed the way to judg of the strength above : But ie difference of a Diseas arising from hence hath rebect unto the danger, and therefore we refer the Signs ierof to the Prognosticks.

The fifth difference was deduced from the times of the S Difeaf. Diseas. In which respect we have above reckoned up fix divers apparitions of this Diseas: to wit, The begining, the entreas, the state or consistence, the encreas beyond the State, the true declination, the superious declination, or the passing into another affect.

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It must be known that the beginning of this Diseas besides the figns that difference this time from the encrease, doth likewise require some peculiar Signs of the presence of this Diseaf : for it is a time of the greatest obscurity, wherin the Diseas doth as it were lurk and hide it felf, neither can an unattentive and in exper-Phyfitian cafily diftinguish it from the Diagnostica Signs above reherfed. For by this time most of the Di agnostical Signs aforefaid do not yet openly break forth. and tuch as make a discovery of themselves, present on ly some obscure impressions to the Physitians Observation. Therfore the indication of this time requires ar accurate and peculiar collection of the first appearing Signs, and a diligent confideration of them; but the o ther times, befides the Diagnostical Signs above gran ted, want only a difference among themselves, which i performed by an easie industry. Wherfore in the firl place we will declare the Signs of the prefence of thi Difeal, being newly begun or rather beginning, and then the difference between that and the encreaf.

The Signs of the present Diseas of the Rachites newly begun.

First, Diligent Observation must be employed about the three kinds of Signs ascribed above to the Animal Actions; namely, the loosness and softness of the parts the weakness and languidness, the flothfulness and numness. For these do in a remiss degree, and subobscurely yeild

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yield advantage to circumspection and heedfulness prefently a principio principiante, as they phrase it.

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Secondly, The colour must be confidered, and the habit of the Head and Face in relation to the foynts. For if the colour or the habit be more fresh and lively in those than in these, it presenteth a strong suspition that this Diseas hath taken root. For although the Bulk of the Head which is evidently encreased, and also the extenuation of the parts affected do pre-require some considerable motion and duration of the Diseas before they appear, yet from the beginning a certain difference may be observed by an accurate attention or intuition in respect of the heat and the habit of these parts compared one with another.

Thirdly, The Wrests and the extremities of the Ribs must be noted. For before the end of the beginning certain rudiments of knurls or knots begin to appear in the Wrests, and Excrescencies also in the tops of the Ribs.

Fourthly, A kind of Jwelled fulneß and firetching the Belly is confpicuous immediately after the beginning efpecially in the Hypochondriacal parts. For the magnitude of the Belly compared with the magnitude of the Breaft exceeds the juit and due proportion.

Now these Signs collectively taken do affuredly demonstrate the presence of the Diseas even from the very beginning. But if no sensible and manifest extenuation of the first affected parts do appear at the same time, in that very respect it is clearly distinguished from the encrease therof.

The Signs of the other times are with eaf differenced from one another by the defcriptions of those times already laid down; yet becauf they may point to this place, and be dispatched in a word, we shall not decline the Annotation of them. S 2 All

(244) All those Signs which appeared at the beginning become more intense and evident in the encreal of theDifeal, and many other and more grievous are daily accumulated. This time, as hath been faid, is diftinguished it very B by the manifest extenuation of the first affected parts; but after the confistence by the continual aggravation suffical tir'spp of the Symptoms and Signs aforefaid.

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In the State of the Discas the Signs and Symptoms are most outragious and conspicuous. But so long as this time lasteth it neither manifestly encreaseth or decreafeth.

In the encreal beyond the State, the Signs and Symptoms exceed that condition which they retained in the indifferent State, both in respect of their magnitude and vehemence, and likewise in respect of the dejection of the Spirits, and from that time forwards they dayly grow worse and worse; for which confiderations this time is distinguished, as well from the ordinary encreas, as from the means of the confiftence.

But in a true declination A kind of simple remission of the Symptoms and Signs tending to a perfect restauration of health begins to discover it felf; no other Sign of the invalion of any other Difeal appearing.

On the contrary, in a spurious and illegitimate declination, Other Signs of a new and succeeding affect an involved and complicated with the Signs and Symptom. of this Diseas: and these are distinguished according to the various condition therof, and must be fetched fron their proper Fountains, and ought not to be expected here. Moreover, if any particular Signs of any of their times do occur, which concern the event of the Dileat they must be referved among the Prognosticks ; and thu much of the Signs of the Differences of this affect de duced from the Effence therof. The

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The Differences of the Caufes diftinguish the Difeas into Natural and Accidental, and the Natural again into that which is properly so called, and that which is so termed improperly. A Natural Difeas properly so called, becaus it is supposed to be actually present from the very Birth, requireth no other Signs than the Diagnostical recited in the former Chapter. For upon their appearance presently after the Birth the Difeas is certainly known to be Natural.

But if those Signs appear not prefently after their Birth, yet a Natural disposedness to this Diseas may be inherent from the Birth, which afterwards actually breaketh out, and the Diseas produced by it, may (though with some impropriety) be termed Natural, in regard of that dependance upon the Native faultiness. A Natural Diseas in this sens, require th other Signs than those which we have recited above, to distinguish it from the same Diseas when it is altogether and plainly Accidental.

The Signs of a Natural Difeasimproperly so called.

First, A weak and fickly Constitution, and the Difeases of both or either of the Parents: As a cold and moist diffemper, a Cacochymy, especially the Phlegmatical, a Cachexy, a Dropsy, an Atrophy, the Phtifick, the Gonorrhea, the Whites, the Venereous Pox, the Scurvy, and the like affects.

Secondly, The Slothfulneß, Effeminacy, and Sedentary life of the Parents.

Thirdly, The Errors of the Mother during her going with Child, all which things we have discussed above more at large, when we examined the Caules of this Difeas in relation to the Parents.

Fourthly,

Fourthly, The Debility of the new born Infant when it proceedeth not from the difficulty and labor of the Birth.

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Fifthly; The invasion of the Diseas before he is exactly a year old; for this argueth some Natural disposition to the same.

Sixthly, If the elder Brothers or Sifters were before affected with the same Diseas; for then it may well be fulpected that some Infection was contracted from the Parents.

Seventhly, If no remarkable error was committed in looking to the Child after the Birth, and before the invafion of the prefent Difeas. Of which we have spoken above in the Chapter of the Causes after the Birth.

Eighthly, If this affect hath not succeeded some other which was apt to leave this behind it. Of the Discases. of this kind we have also discoursed above.

The Signs of a Difeas newly and totally contracted after the Birth, are in a manner contrary to these, and therfore we shall only run them over.

First, If the Diseas cannot be imputed to any weak or diseased Constitution of the Parents, or their manner of life, or the errors of their customs.

Secondly, If no debility appeared presently after the Birth.

Thirdly, If the Diseas began when the Child was above eighteen months old.

Fourthly, If the Brothers and Sifters were free from the Dileal.

Fifthly, If any notorious errors were committed about the Child after the Birth.

Sixthly, If any Difeas went before which might occafion a sufficient that this followed it. If there be a confluence of most or all of these Signs, they do sufficiently witness

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witnefs that this Disease must not be attributed to any Natural Infection, but to the future Errors and Irregularities. And thus much of the differences of this Discase in respect of the Causes.

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Vicinia Vicinia (c, zd main a Laftly, Som differences happen to this Discas by reafon of other Diseases, wherewith they are peradventure complicated ; in which case, besides the *Diagnostical* figns already reckoned, fome other may be defired as peculiarly proper to the complicated Diseas. Nevertheless an accurat Description of them cannot be here expected, becaus for the most part they are the same which are every where artributed to those Diseases by practical Writers. But becaus fom Diseases do more frequently actompany this than others, we will briefly look into their Signs.

First therfore a Hydrocephalus or Dropsie in the Head being complicated with this Affect needeth fomtimes no figns to make it known, but is lufficiently, yea abundantly manifest of it felf: namly, either by the exceeding magnitude of the Head, or by the Water that is outwardly contained under the Pericranium (which notwithitanding we suppose doth very rarely happen) or by fom extream opening and mideness of the seams in the Head, Water having gotten into them, and lifting up the Dura Mater, fo that a foft and waterifb tumor is outwardly perceivable by the touch in the paces between the Bones. Many times the Hydrocephalus is fomwhat obscure and requireth figns to discover it. First, Therfore all the inward and outward senses are more dull than otherwise they use to be in this affect. Secondly, The magnitude of the Head is fomtimes greater than at other times. Thirdly, The Sutures, or feams in the accustomed places do gape more wide, and are closed again more flowly than they are wont to be. Fourthly, The Bone in the Forehead is more 4

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more outwardly sticking out, and in the other Bones of the Head you may observe certain inequalities and bunchings out of an unusual bignes.

Secondly, The conjoyned evils of breeding Teeth are thus known. I. If the accustomed time of breeding Teeth be either approching, or now at hand; for from hence arifeth some suspition of pain from thence proceeding. This time ordinarily begineth in the feventh month after the birth, and continueth til the Child be a year and fix months old, and longer, if the Teeth come flowly; which hapneth very commonly in this affect; and it endeth when the number of the Teeth is compleat, 2. Children to mitigat the raging pain do use to put their Fingers into their Mouths, according to that old faying, Hbi dolor ibi Digitus. 3. The Gums wax white on that fide where the Tooth is to break out, and are (omwhat hot in the touch. 4. The Teeth that come forth sometimes wax black or are loof, or fal out by pieces. 5. To these you may ad watchings, the loofneß of the Belly, Feavers and Convulsions, which norwithstanding are chanceable Symptoms.

Thirdly, An Asthma is perceived by the very diffculty of breathing, when it doth not proceed from the stretching and fulness of the lowest Belly. But if withal there be a swelling or Imposthum, & that in either side of the Lungs, they can scarce endure to lie on the contrary side; but if it be on both sides, then they defire to lie erret or with their Faces upwards. The fame thing for the most part hapneth in an Inflamation, with a growing together of the Lungs with the Pleura, as alsoin a Pleurisie, but then there are added, an acute Feaver, a Cough and spitting of Bloud, moreover in a Plurisse a pricking pain in the Side. The Phtisick is known by a diuturnal Cough, and a roundiss and sometimes a purulent spittle (although

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(although indeed Children do seldom spit out, becauf that matter which the Cough fetches up into the Mouth they swallow by the cesphagus) also by a putrid Feaver conjoyned, and by a sudden Colliquation in the parts. An Ascites is discovered by the unreasonable bigness of the Abdomen.

Fourthly, A Hectick Feaver bewrayeth it felf by a continual heat, being somwhat more vebement than that in a Quotidian Ague, especially about the Arteries, and stil encreaseth after the receiving of meat; also by the fwift and speedy consumption of the parts : a putrid feaver is known by the urin being at the begining cude, afterwards more concocted, then also from the extream high color of it. Moreovor, if it be an intermitting Ague, it is differnable by the inequality of the beat, the external parts being at the begining extream cold, & afterwards excessive hot; also from the fits either constant or erratical; again, by the contraction of the Pulfupon. the approach of the fit, afterwards unduly encreased. A continual Feaver is known by an intensive and un-intermitting heat, also by thirst, roughness of the Mouth, and the altered color of the Tongue, and the like.

Fifthly, The Venerious Pox is supposed to meet in complication, if either of the Parents or the Nursswere before infected; if any ulcers appear in the Head, Mouth and Nostrils; or if any eminent and crusted wheals break out, especially such as ordinary Medicins cannot subdue: if hard tumors grow conspicuous, or knots defiling the Bones in the Fingers with rottennes, or any other parts if unquietnes and bitter pains in the night-time alarum the fick; or if Euboes break out in the Groyn.

Sixthly, The Scurvy complicated with this affect hath these figns: 1. They that labor under this affect do impatiently endure Purgations; but they who are only affetted

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fected with the Rachites do eafily tolerate the fame. 2. They are much offended with violent exercises, neither can they at all endure them. But although in this affect alone, ther be a kind of flothfulness and aversation from exercife, yet exercife doth not fo manifeftly, at least not altogether fo manifeftly hurt them, as when the Scurvy is conjoyned with the Rachites. 3. upon any concitated. and vehement motion they draw not breath without much difficulty, they are vexed with divers pains running through their Foynts, and these they give warning of by their crying, the motion of the Puls is frequent and unequal, and somtimes they are troubled with a Palpitation of the Heart, or threatned with a Lypothymie, which Affects ar for the most part soon mitigated, or altogether apealed by laying them down to the rest. 4. Tumors do very commonly appear in the Gums. 5. The win upon the absence of the accustomed Feaver is much more inten (and encreased.

Seventhly, The Strumatical Affect, if extreamly complicated with the Rachites, is fufficiently confpicuous by Swellings obvious to the senses; yea, where many knotty Excrescences do outwardly occur, it may be justly fuspected that the like Tumors do lurk in the Bowels. But if the knots grow inwardly only, they are fcarce difcernable by any certain fign; for that Rule which fome have observed, namly, That those who have short Necks, low and narrow Forheads, with compressed Temples, and wide Cheek-bones, are subject to these strumatical Tumors and Excrescencies, is too uncertain and fallible; Others affirm, That Purging Medicines taken otherwile in a just proportion will scarce work with those who are thus affected ; but we answer from our own Experience That it is somtimes only, and not alwaies true. Thus much of the figns of the differences. CHAP.

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CHAP. XXIII.

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The Prognostical Signs in the Diseas of the Rachites.

His Diseaf in its kind is not mortal, yea fomtimes it is fo light and gentle, as the Children affected therwith have been reftored to health by the fole benefit of Age, the Vital heat being encrealed and fummoned forth to the external parts by the force of frequent Exercifes. Yet it fomtimes fo vehemently prevaileth, that the iminent danger of life can scarce, yea somtimes cannot be prevented by the best and most prudent applications. Wherfore it is very neceffary that a Phylitian should first diligently contemplat the Prognostical figns of a difess, that hemay be the better instructed to forsee the several events of it. But in general those things which abet the Diseas, that is, all fuch things as war against Nature, require a contrary confideration, and as thef are the ftronger and they the weaker, fo much the more grievous and pernitious is the Diseas. But becaus it is not obvious to every one to give an accurate Judgment of Particulars from this General Admonition, it will not be impertinent or unprofitable to infert fom particular and special Rules and Observations hitherto belonging.

First, Thus Difeas properly Natural, or that which invadeth before the birth, us the most dangerous, and seldom, if ever, end in health. For it argueth a deprivation of of the Seminary principles, and by confequence that the Spirits are very infirm; befides it infinuateth a vehemency in the caufes.

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Secondly, The more early the invalion is after the Birth, the more dangerous (cæteris paribus) the Difeaf us: for the Spirits are fo much the weaker. In like manner, The Elder Children, and fuch as go up and down, are more eafily cured then yong Infants that cannot use their legs.

Thirdly, A Difeaf improperly fo called; namly, that which in part dependeth upon the Natural Inclination, is more dangerous than that which is contracted by the meer error of the Nurfe or Mother.

Fourthly, This Difeas proceeding from som other fore-going Affects, is more dangerous than that which is introduced by an erroneous Regiment of health; For it implyeth a precedent dejection of the Spirits.

Fifthly, Som have observed, That Infants who have bad red Haird women to their Nurses, have been most obnoxious to this Affect. Yet we indeed suspect this rule of som fallability.

Sixthly, Some affirm, That Girls are more frequently infefted with this Difeaf than Boys, and more eafily cured. The truth is, we have not yet had any unfufpected experience of this. Yet we grant that Girls are of a more cold and moift temperament, which holdeth the greateft correspondency with this Difeaf, and for that reason probable it is that the Female Sex may be affected with the lighter causes, and for the fame reason also be the some reftored.

Seventhly, This Difeas doth chiefly invade the Cra-

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dles of the Gentry, especially, of those who live at eas, and fare deliciously; then of the poorer sort, by reaion of the manifold and various errors which necessary introduceth as wel in the diet of the Parents, as the Regiment of their Children; but it findeth the most difficult access unto those who are priviledged from such asfaults by a mediocrity of fortune, and accustomed to undergo some pains-taking and labor, and are not destitute of necessary means to suftain life and a healthful competency to prevent indisposition.

Eighthly, By bow much the more the first affected parts are extenuated, so much the more difficult cæteris paribus is the cure of the Difeds.

Ninthly, The greater the Head is, the longer and the harder is the Cure. When therfore the Bone of the Forehead flicks much out forwards, it portendeth ac leaft a long continuance of the Difeaf; the fame alfo do the other irregular flickings out of the other Bones of the Head.

Tenthly, The weaker the Back-bone, the greater and more dangerous is the Affect. Wherfore they which are unwilling to fit upright, much more they which are not able to fit upright, but most of all they whole feeble Necks cannot underprop the burden of the Head, are in hazard of their lives. Moreover, by the Diuturnal weakness and bending of the Back-bone, Children become Crook-back'd, or some other waies incuruated, and the trunk of the Body is afterwards fcarce reducible to its Native Figure.

Eleventhly, Great Swellings in the Bones of the Wrests and the ends of the Ribs presage the continuance of the Diseas. Moreover, The croskedness of the Shank-bone, Shoulder-bone, or the Bone in the Arm, prognosticate no less. Again, The greater that the inflexion of the Joints

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is, the more difficult and retarded will the restauration be.

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Twelfthly, They whofe Thigh and Shank-bones are much encreased, rather according to latitude and thickness, then according to longitude, for the most part becom dwarfs.

13^{1y}. They who draw their Knees upwards and unwillingly, suffer them to be extended, recover not without som difficulty.

14^{1y}. When the Teeth wax black or fal out by pieces, there is fom danger, and fo much the more, the later they com again, that is, others in their room.

15¹⁹. Al they who attain to the confiftence of the Difeaf, escape the danger of it, being carefully lookt unto, unle β perhaps som other Diseas be consoyned with it, or do accidentally com after, and disturb the Patient with a higher encreas. In like manner the declination of the Symptoms doth assuredly promise a restitution of bealth.

16¹⁷. If an Hydrocephalus be complicated with the Rachites it ever importeth great danger. But if it prevail far, as that the Sutures of the Brain pan do gape, and that fom water gotten into the middle Spaces doth fwell the Dura mater into a waterish and soft Tumor, it is mortal.

17^{1y}. A painful and laborious breeding of Teeth coms fomtimes accompanied with most vehement Symptoms, and even threatneth death. But commonly it is violent and ceaseth in a short time; however, so long as it is conjoyned, it much accelerates the motion of the Dijeas. But the Dog-Teeth com forth with more vexation, than the reft and portend more danger.

1819. An Afthma (especially the Orthopny, when the Patient cannot draw breath, but with an erected neck

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neck, and that difficulty of breathing when he cannot ly on either fide) is very dangerous. For that prompteth to a fulpition of fom Tumor, Imposthum, Pleurisse, or Inflamation of the Lungs, or fom growing too of the Lungs with the Pleura, all which affects want not their danger.

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19^{1y}. If the Prifick be complicated with this Affect, it is for the most part mortal sespecially if one and the same ulcer of the Lungs continu above forty days.

20: We affirm that if this Diseas be of any long continuance it easily changeth into the Ptylick, or a Consumption, or at least commonly brings a Consumption to the destruction of the Sick, unless som other affect peradventure, or grievous symptom do intervene, and prevent the Consumption by hastning death; as a Convulsion, the loud Cough, the swelling of the Lungs, (vulgarly called, THE RISING OF THE LIGHTS) a continual Feaver, a Pleuriste, &c.

In the next place, We affert, That if a Dropfy of the Lungs, or an Afcites be complicated with the Rachites, it portends a desperate and deplorable condition.

Again, An Hestick, flow, putrid, and especially a continual Feaver, consuming the first affected parts doth vehemently hasten the motion of this Diseas, and render it the more dangerous.

Alfo, If the Venereous Pox be consociated with the Rachites, b e it hereditary or contracted by infection, it is almost uncapable of remedy.

The Scurvy likewise conjoyned doth very much retard the cure, though less than the Pox.

In like manner Strumatical tumors either internal or external do not very much subjend the hopes of cure, though otherwise of themselves they are not eafly subdued in this tender age. For the external parts

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parts are exulcerated, or inflamed with infupportable pain, and do vehemently irritate Nature, and waft the Spirits, but the internal much more, efpecially, if they invade the more noble parts, or bring moleftation to the adjacent members with their weight and bulk.

Moreover, Whosoever are not perfectly cured before the first five years of their age be spun out out, they afterwards for the most part live miserable and fickly, and being either Astematical or Cachestical or Ptysical they dy before they arrive to the confistence of their age, or elfe they grow deformed, crooked, and dwarfish.

If Scabs, wheals, pimples, or the itch com after this Affect, it doth hopefully expedite the cure.

Finally, They which easily endure any kind of agitation of the Body, cæreris paribus, are cured without difficulty.

Thus at length we have finished the History of the three kinds of Signs, according to the best faith of our observations hitherto. In the next place we shal proceed to the Method of practice, which comprehendeth the prevention and cure of this Diseas.

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CHAP. XXV.

The Method to practice and Indications in general.

Therapeutical and the Prophylactical part, or the Curative and the Prophylactical part, or the Curative and the Prefervative. We shall discours of the former in this Chapter, alhough perhaps we shal here also propound som things which are common both to the Prophylactical part, and he Eugieihal. But the Prophylactical in particular and incommunicated we referve for the close of this Tratate.

The Curative part is usually called the Method of we, wherof, as of every other art, there are two general nitruments, namly, Reafon and Experience, the uniting therof comprehendeth the whol skil of the Artift. Now y experience we understand not only the History of one more Difeases, and the success of Medicines, but also be observation; that is, the application of the Histories uto those things, which reason dictates in the same astt, and that by way of comprobation or disallow ance. n like manner, by reason we mean every operation of the mind, so as we do not only comprehend the third; amly, ratiocination either demonstrative, or probable id Analogal, but also the first and fecond, that is, a sime apprehension, comprehension and division. For this T

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part of Medicine includeth or rather presupposeth the Physiology, Patholog y and Semeiotical part, which certainly require a manifold exercise of every operation of the understanding. Again, no man can understand any proposition, who doth not first apprehend the simple terms therof, nor any Syllogism, who is ignorant of the Propositions of which it consistent; so that it is manifest that every operation of the mind doth meet with an employment.

Indication, That noble inftrument of the Method of Gure (by the use where of the Dogmatical Physitians de principally glory to discriminate their Sect from th Empericks) doth likewise vindicate a station amony the parts of reason. But because somethings both difficult and obscure do occur concerning this inftrumen which have not received an unfolding and ful illustration, from the Neotericks themselvs, we judg it expedient here briefly to unvail them by an examination. W wil enquire therfore.

First, what is Indication ?

Secondly, unto which operation of the understand ing it relateth?

Thirdly, Into what kinds and differences it is d

As for the first, although perhaps many fignificat ons of this word may be found among Authors, yet the is the best and most proper which is delivered by Gales in his book de Method. Meden. Indication (faith he) an infinuation or declaration of the consequence, that of fomthing to be don. In this sens Indication may be do fined and described to be an objective action of the In dicant relatively confidered, which representeth to the understanding the thing Indicated, that is, what may helpful what hurtful, and by consequence what must el

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elected and applied, what forfaken and avoided, that this Description or Definition may be the better underflood, let us further examin what is here fignified by the Indicant? what by the thing indicated? what the action of the Indicant is? of what use distinction is of the thing indicated into helpful or hurtful, into that which must be chosen, and that which must be refued?

First, Although those terms Indication, Indicant, indicatum, or the thing Indicated may peradventure be extended to other Arts and Sciences, yet becaus it hath hitherto been only apropriated by the Industry of Phyitians (especially of Galen) to the Method of Practice, heir definitions which we shall here declare, shall have espect only to this Method, all other use of them being pretermitted.

The General Definition therfore of the Indicant nuft be derived from the most general Nature which oth indicate in our Art. The Indicant therfore may be defined in general to be a state of the Body as it is luxible or movable, or rather, as it is actually influx or notion, relatively confidered, namely, as it intimateth what is to be done in that particular.

First, We affirm that the *Indicant* doth perpetually mply fome state or condition of the Body; wherfore ecaus that which is without the Body, and doth not et affect it, is no state or condition of the Body, it an scarce rightly be said to indicate. The external caus herfore, which doth not yet affect the Body, is not the *idicant*, although the aversion of it may possibly be thing indicated. Secondly, the state of the Body sit is frail, or movable, or rather as it is actually in notion, is required to the Effence of the *Indicant*. For is Galen most luculently proveth to Thrasyb. If our Bo-T 2 dy

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dy were immutable and perpetual, there were no need of Medicine, but becauf the heat doth continually feed upon the moisture, and becaus health it self in the most perfect state is frail and fluxible, yea actually fluitant, and in some measure is already flowed away, manifest it is that the Phylitians Art and the Practical Duty of the Phylitian are both exceeding requilite. For if the state of the Body and the alteration therof be only confidered abfolutely, a bare and naked speculation only refulteth from thence: but if it be confidered in order to that which is to be done, wherby the Phylitian may rightly execute his duty concerning that flate, prefently it meriteth the denomination of a Practical Instrument, and is invested with the nature of an Indicant. For fuch a flate doth indicate, as it is frail and in motion that care must be every way had of the health, and that that care mult be exercised and practifed with all diligence and circumspection. And consequently this very general Indicant doth point out, that which the general loope of the Phylitians lought after, but it must not be expected that the confideration of the most 'general Indicant can reprefent any other thing than a most general action correspondant to the general scope. For if the Phylitian defireth a higher prolecution of the particular scope, he ought to descend to more particular Indicants.

Secondly, The thing Indicated is a Medical Action required on the part of the Indicant. For the Indicant primarily and formally denoteth the action, but fecondarily and by confequence the inftrument wherwith the action is perfected. Therfore by way of an appendix let us ad to the proposed Definition, that fecondarily, by confequence, and in a concrete acception, it includeth the Inftrument wherwith that action is accomplified. First,

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First, We fay, that the thing indicated is an action For the Physitian userh Indication to that end, that from then ce he may collect what is to be done: you will fay perhaps, that when the crifis is at hand or legitimatly proceedeth, the thing indicated is an abstinence from, or a suspension of the action, and not the action it felf.

We answer, That this abstinence in that very regard that it is enjoyned advisedly and according to art, is evidently contained under some kind of notion of a Medical Action; and the same is to be said of any kind of prohibition of any action in our Art.

Secondly, We say that the thing indicated is a Medical Action, that is directing the Action to health. For the end of Medicine is health, and therfore that Action which doth aim at health is rightly termed a Medical Action.

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Thirdly, We fay, That the thing Indicated is an Afion requisite and importing at least in respect of the Indicant. For every indicated action ought not preently to be reduced to Practice, neither can it be fimsly faid to be requilite, but only in reference to the Inlicant : wherfore it must be exposed to a further exanination before the exercise of it can be refolved on 3 ind if neither the Spirits do diffwade, nor no other conra-Indicant doth more potently refift, then it is fimly requisite, and must be put in practice in its due time, with all poffible convenience. And herupon the thing ndicated is rightly diffinguished into profitable and inprofitable. The thing indicated becomes unprofitale either by defect of Medical matter, wherwith it hould be accomplished, or by the prefence of a ftronger Prohibent, or contra-Indicant.

Again, A thing indicated and profitable is rightly T 3 fubdi-

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fubdivided into an Indicate, Circumstantiate, and non-Circumstantiate. The first by which is meant an Action rightly cloathed with circumftances must be profecuted without any delay. The second must be deferred until it have perfe Etly acquired due circumstances. We fay fourthly, That a thing indicated in a concrete and fecondary fenf doth alfo include the Inftrument, wherby the Indicated Action is perfected. As for example, the state of health doth primarily and formally indicate an act of confervation, but secondarily and by confequence it doth withal indicate the Inftrument, wherby we conferve it. This passage of an Indication from the Action to the Instrument doth not seem to depend upon the sole vertue of the Indicant, but in part also upon fome general certain and commonly received principles, as like things are conferved by the like, things contrary are cured by their contraries, and therfore we industrioufly faid that such an Instrument is the Indication or thing Indicated in a Secondary fenf, and by confequence inferred, and becauf it includeth the Action together with the Istrument, we termed it fo likewise in a concrete fignification.

Moreover, Seing that the Practical duty of a Phyfition hath great affinity with the Indicated action; we shall here confider wherin they unite in some agreement, and wherin they differ among themselves. The general Duty of a Physitian is to attain (as much as in him lies) the end of his Art, namely Health. And that same obtaining of Health is in a manner the most general Indicated Action, yet this is diffinguished from the general Duty of a Physitian, becaus the Purchase, and reftauration of Health is not alwaies attainable. Therfore although the obtaining of Health be perpetually Indicated; yet when that is impossible, the Physitian

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tian is difobliged, feing that no man is bound to impoffibilities, and fo confequently, it is no part of his Duty. In like manner an Indicated Action is fomtimes unprofitable for the reasons before alledged, in which cafe it appertaineth not to the Duty of the Phylitian. Again, An Indicated action, though when it is profitable it must be performed in its place, yet fo long as it continues an apparel'd and devested of due circumstances, it preffeth not the Duty of a Phylitian. For it is the part of a Phylitian not only to prefcribe things profitable in the Species, but they must be fuch, regard being had to time, order, and other conditions of a just and regular administration. Finally a profitable Indicated Action being robbed in all its due circumstances doth truly exact the duty of a Phyfitian. For a Phyfitian is obliged to execute fuch actions, and only fuch, at leaft when they are conspicuous.

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Befides; The scope and intentions of the Phylitian having a diverse respect to the Indicated Actions and the Duties of the Phyfitian, and holding fome commerce with each of them, we shall likewise here confider in what respect this falleth out. But in the very entrance into this Discourf these scopes seem somtimes to be properly diffinguishable into little notions or forms of enquiry after every Duty of a Phylitian, and the things themselves to be enquired after. The forms of enquiry are nothing else but apt Questions or Interogations, which fubdivide every Duty of a Phylitian into so many parts, as it containeth to be distinctly fifted and examined. Argenterius reckons up nine Forms of this kind : First, Whether? Secondly, What? Thirdly, With what matter ? Fourthly, How much ? Fifthly? Of what kind? Sixthly, After what manner? Seventhly, When? Eighthly, Where? Ninthly, In what T 4

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what order a thing must be done? Others contract these to fewer Heads, but for further satisfaction the understanding Reader may confult with the Books. The real Scopes or things themselves to be enquired are those very parts, into which each Duty of a Physitian may be aptly diftinguished. They are therfore to many in number as there are found parts in that duty to be These Scopes thus found out differ not examined. really, but only in reason from those that are yet to be found out, namely in respect of the diverse relation to the intellect seeking, and actually understanding. From hence it appeareth what affinity there, is between these Scopes and the Duty of a Phylitian, and also the indicared actions. For the notional Scopes or forms of Scopes, and the things themselves to be enquired after under thole forms do both aim at the lame mark, namely the diffinct invention of all the parts of a Phylitians Duty. But the things to be fought out are the parts themselves of the Duty aptly separated and disjoyned from one another the better to facilitate the invention and examination.

Moreover, Thole parts of this Duty, in as much as they are found out by the force of Indication, are the very indicated Actions; fo that the Scopes invented by the Indication, and the Indicated Actions do really fignifie the fame things. We fay really, becauf the Scopes even when found out differ in reafon from them as they are Scopes, leing that befides the Indicated Actions they feem to note together an intention of profecuting the fame Actions, as the Scopes not yet found out do intimate an intention of enquiring into them. Thus much of Indicates or things Indicated.

Thirdly, The action of an Indicant is Objective and Indi-

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Indicant, as an Object besides it self, doth in som sort insinuate another thing to the understanding. Perhaps som may wonder, how an Object can represent any other thing besides it self.

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We answer, Such is the Nature of relatives, that (as fuch) they cannot be conceived without an implication of their correlatives. For one relative in his proper confideration doth at least obliquely involve the confideration of another, and by that means it easily ufhereth the understanding to the knowledg of the other.

Som may reply, If the force of the Indication be built upon the meer relation of the Indicant to the Indicatum, How coms it to paß that the use therof is restrained solely to the Art of Medicine?

To this we answer, We deny not, but this inftrument may be extended to other Arts and Sciences, as we have before infinuated. For in moral Philolophy it is lawful to fay, that Vertu doth Indicate the protection of her telf, and Vice the suppression of it self. But neither doth this kind of relation confift only between the States of things, and the Actions therunto belonging, but also between the terms meerly speculatives as twice two are four, a man is not a horfe. But here we confider the Indication and the efficacy of the Indicant only in order to the Method of Phyfick, fo as it wil not be here needful to extend the use of this instrument further, neither indeed did Galen, because it would contribute little to the scope therof. Yet we affirm, that every relation is not a sufficient basis of an Indication, but it must be such, as hath either an evident conformity and agreement between the Indicant and Indicatum, wherby they may be fitly marshalled into a proposition of undoubted truth; or a disparity and repugnance of them among themselvs that

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that to they may aptly be divided from one another; that is, they may be disposed into a negative proposition equally certain. Now becaufe the propositions elected by this indication are certain and evident, not needing any higher proof : from thence it is manifest that every understanding that is Master of it self, not clouded with a wait of prejudice, nor wittingly enfnared with sceptical Sophilms and fallacies, must necessarily pay an affent unto them fo foon as he understandeth the terms. Moreover, the Scepticks themfelvs, though in their disputatious they wil lie in wait to traverfe any verity, how manifest foever it be, and busy themselvs to equal the most certain principles with things extreamly doubtful, yet in performing the neceffaries of life, feing that they relieve hunger by food, hoard up mony, avoyd ftripes, and do these and the like things constantly and without any diftemper of mind, they plainly discover that they are led by tom bad dilpolition of mind, or governed by a defire of glory, or tickled wth a hope of victory in the contention, rather that they doubt really of the truth of fuch Propositions. In the interim, it must be observed, that the very Indication is fallible and deceitful, where the absolute nature of the Indicant or the Indicatum hath not been exactly understood before. For in this art of Indications, we do not presuppose only that a Physitian foould always have learned before, and duly known what al those things are, which we cal according to Nature, as also in what the Effence of a Diseal, and all the parts, therof confift, and to have an exact knowledg of all the causes of an Affect. Yea, it is necessary that he understand all Medical actions, and upon occasion be able to render a ready account what alteration is, what heating, what cooling, &c. what evacuation, purgation, and the fection of a vein, &c. what confervation, and the like.

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like. For the Indication doth not make manifest the abfolute nature either of the Indicant or the Indicatum; but presupposing this as already known, it representeth only a mutual relation; namly, either a strict connexion and conformity which they retain among themselvs, or a disparity and opposition, wherby they may be formed into an undoubted proposition: but the certainty of the indicated proposition cannot exceed the certainty of the knowledg of the Indicant. Therfore if at any time we scruple the certain knowledg of the Nature of the Indicant, it is not fase to trust to the Indication alone, til it states be confirmed by fom other Reafon or experience. But this doubting must not be imputed to the Nature of the Indication, but to the ignorance of the Indicant.

Moreover, it must be considered that the relation of the Indicant in the Method of practice, doth demonfirate besides the evidence fomwhat of duty in respect of the Indicated action, and that the propositions formed from the Indication do either explicitly, or at least implicitly infinuate that duty. As in this Proposition, a Diseas doth Indicate the ablation of it felf, the ablation is decreed and resolved upon, as a requisit action on the part of the Indicant, that is a Diseas: as if one should fay, a Diseas require the or importune the the removal of it felf. Yet this duty of the action is more frequently and indeed much more elegantly expressed by the Participle in dus, as a Diseas is to be taken away : which Proposition in the fulness of its fignification hath a manifest coincidence with the former.

There remaineth stil an objection to be answered concerning the action of the Indicant; and this it is, If the Indication be the very action of the Indicant, how can it be called an operation of the understanding? For all wri-

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We answer, The Indication is indeed an action of the Indicant, but yet an objective action, and that it is united to the intellective faculty, and abideth in it as in its subject: Moreover, that the understanding a power, both actuated, and as it were informed by its subject. Wherfore although the action of Indication be objectively attributed to the Indicant, yet subjectively it is afcribed to the Soul, and especially to the intellective part therof, which is as it were the act and form of it. And from hence it wil be most easy to reconcile Galen with himself, who some a Catalepsis.

Fourthly, It must be examined whether that distinetion of an Indicated action, into an action helpful and hurtful may tend. For som may urge, that Galen doth perpetually affirm, that one Indicatum only can be infimuated from one Indicant; and that in his Method. Med. he doth affirm, That they vainly attempt the Method of cure, who are ignorant that one thing is Indicated from one Indicant, and that all who have written of this matter do feem to attelf the same thing,

We answer, That Galen must be understood of the three distinct, kinds of Indicants, which must by no means be confounded, nor their Indicates, that is, the things indicated by them. For that which a Diseaf doth properly Indicate, must not be attributed to the causes or the Spirits: In like manner that which the causes Indicate must not be applyed to the Spirits or the Diseaf it felf. Finally, that which the Spirits Indicate must neither be afcribed to the Diseaf nor the causes. For in this respect one Indicate answereth to one Indicant, and he that observes not this, must unavoydably confound all things

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things, and in the employments of art makes an unfuccesful use of this instrument, a coording to the judgment of Galen. But it must be confidered, that in each of these kinds, the Indicatum may be divided into two parts, one wherof is an advantageous action, and to be profecuteds the other is noxious and to be avoyded yet each of them belongeth to one and the fame kind amongst the aforefaid three, and is as it were a middle part of the whole Indicate : For the Spirits direct to an election of fuch things as may cherifh and protect these, and to an avoidance of fuch things as may in a further degree empair them : and both these actions concur to advance and afcertain the compleat and final confervation of them. In like manner, both in cure and reftauration, and alfo in caution and prevention, there is found an action as well to be embraced, as abandoned ; yet whether of them exceedeth the bounds of its kind, fo that no confusion can from thence be feared. For whilft we cure, we make choice of those things that wil demolish the Discas, and we deliver the application of fuch things as wil augment In like manner, when we preferve, we take a-It. way the caules, and withal we fhun the use of thos things that may conspire either the continuation, or future breeding of them. And for this Reason in the definition which we have prefented above of an Indication, we diffinguished the action indicated into that which ought to be profecuted, and that which ought to be waved : which very thing also we were about to do, in the enumeration of the particular Indications to this Difeaf.

It is now time for us to proceed to the fecond enquiry propounded at the beginning, namely, Unto which operation of the Intellective faculty the Indication belongetk. We fay, first, That the Indication doth in fom fort include the fimple apprehension of each term, both

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of the Indicant and the Indicate. For he can never understand a Proposition who is ignorant of the Terms therof. Yet this knowledg is only preparatory and presupposed in the art of Indications, as we have already noted. We affirm fecondly, That composition and division is an explicit operation of the Intellective faculty in the perception of an Indication. For the Indicant by force of his relation doth represent the Indicate to be aptly continued together into a relative proposition. Now that a Proposition thus constituted may in its own nature be so manifest and evident, that no man can reafonably doubt of the truth therof, or need any cleerer proof, is expressly taught by Galen - rarahiter, aveu rughosas n royious; and again in another place - aven Snoder gews. n' maga Thenorews. Here fom calumniate Galen, as if he had devised an art separated from all experience, and quarrelling with Reason; but because Galen intended nothing else, than that Propositions framed by Indication are of felf credit, and need not any comprobation from Reason or Experience, thei Criticks may perceiv their own rafhness and retract the Senertus indeed objecteth, that the Indicatifcandal. on cannot belong to the second operation of the mind, because the Indicate is neither affirmed nor denied.of the Indicant.But that learned man was herein miftaken. For although peradventure that the Indicate be neither affirmed nor denied of the Indicant directly, and by the bare Verb Substantive or Copulative (eft.) Yet indirectly and obliquely it is manifeftly predicated of the fame, and after the fame manner as it uleth to be in relative Propositions. As for example, A found State is the Indicant of its own confervation; a fickly condition is the Indicant of fom remedy, &c. And if any man wil express the Indicate with his relation to the Indicant

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cant by the participle in dus, than the Predication will be direct. As a found State is to be preserved ; a diseased State is to be cured, a Diseas must be removed, &c. If the Learned Senertus can deny thefe to be Propolitions, he may with the like facility deny that an Indication belongeth to this Operation of the Understanding ; but if he must needs confess that, there is no room left for the denial of this. Now we have faid that the Indication doth belong to the second Operation of the Mind, becauf the Understanding, in reference to the order of time, doth withal comprehend the mutual relation between the Indicant and the Indicate, and thereupon frameth a Proposition, which formation and contexture of the Proposition is the very Indication ; and explicitly a second Operation of the Understanding. Now that the Understanding doth together at one time comprehend the Indicant and the Indicate in the Indication, is elegantly expressed by Galen in a decompounded word which he uleth in the definition therof, Jup sportiteσα κατάληποις: allo in another definition, συμπεςπ-חלא דם הטעושבפסע.

We fay Thirdly, That Indication may likewife implicitly be referred to the third operation of the Underftanding; Becauf in the order of Nature the Underftanding feemeth first to perceive the evident relation of the Indicant to the Indicate before it can conclude of the certainty of the Proposition from thence refulting. Although in the order of time the Mind (as hath been faid) comprehendeth them together; neither is it neceffary to form an explicit Syllogism, for the truth is, The Understanding can comprehend those things together at one time, which by the Institution of Nature are termed Succeffive, as the Sun and Light, Fire and Heat, &c. But in regard that this fimultaneous comprehension

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of an Indication doth include a certain dependance of the knowledg of the Indicate from the perceived relation of the Indicant, it fuppofeth alfo that the faid relation is fooner perceived at leaft in the order of Nature, and that the Indicate is later underftood and by an implicit bringing in, for a kind of transition, in respect of the order of Nature doth seem to be here implied from the relation of the Indicant, as the *Medius terminus*, to the Proposition conflituted of the Indicant and the Indicate as to the conclusion; and this may be called an implicit reafoning.

We fay Fourthly, That by circumlocution and circumstances of speech, an Indication may be reduced to an explicit reasoning or syllogismor rather, that the same thing which we pursue of argue at by Indication is to be found out and proved by way of Syllogism. For the Reason of the evidance of an Indicated Propolition may explicitly be applied, as the Medius terminus, to infer that propofition. In the interim a Syllogilin lo pieced together will be either abfolutly frivolous and childish, or at the best only explicatory. As if any one who would prove that a Difeaf were to be removed, should thus proceed : That which is contrary to Nature is to be removed ; A Diseas is contrary to Nature, therfore a Diseas is to be removed. The Medius terminus (that is against Nature) is not the reason of the Relation of a Diseas to the Ablation therof, but it is only an Exposition of the general Nature of a Difeaf. For whofoever understandeth what a Difeaf is, doth at the fame inftant prefently conceive fomthing not natural. And therfore fuch a fyllogifm is only expository. Yet we do not suppose it to be alwaies unprofitable, becaus it may somtimes be serviceable to the conviction of a stubborn, or the information an ignorant Diftemper. Hither alfo we may reter

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refer the translation of an Indication from the Action to the Inftruments by vertue of general Rules : Likes are preferved by their likes, Contraries cured by their contraries.

We fay Fifthly, That a Collation of the Indications among themselvs, wherby we may guide our choice by the consent and diffent of the Indicants to what simply and absolutly ought to be done, doth necessarily involve the third Operation of the understanding. For the limitation of any Indication supposeth a midle term extraneous to that Indication, which being first understood, the limitation is inferred as a conclusion. For he that findeth out an external for a middle term (thereby to affert the verity of any proposition) doubtless he manifestly argues and disputes. Seing therfore that besides the Indicant and the Indicate a third term, and the affirmation of neration therof is required to the limitation of an Indicaion, evident it is that the third Operation of the Unlerstanding is requisit to the Invention therof. Therore although simple Indications may subminister the irst rudiments of Method to Practice, yet to the complenent and perfection of dilputing the Art must likewife e joyned with it.

We affirm Sixthly, That the election of the Physical latter in particular, and the apt and prudent adminiration therof, doth not only imploy every Operation of be understanding, but that it also require the experiences or without this, who can sufficiently understand to adinister a dose of Scamony or of any other purging Meicament, or know what humors such and such a Plant taweth away by a peculiar propriety ? Again, in Meicines alterant there may perhaps lurk som hidden quaty, which may be hurtful to the Patient, and this withat experience cannot be discerned. We conclude ther-U fore

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fore (the proper force and use of Indications being continued) that to a compleat method of Medicine all the dictates of Reason, and the contributions of Experience are pre-required.

We now proceed to the Third Title propounded at first, namly, Into what kinds and differences Indication is distributed. Som differences may eafily be obferved by what hath already been spoken, which therfore ah respe we shal here omit. Now here we distinguish Indicatiure ; bu adtinels. on into general, succeeding, and specifical. The general is derived from the general Indicant, the fucceeding fro the intermediat kinds of Indicants, and the specifical from the loweft Species of them. We have already noted that the general Indicant is the very state of the Bombis Ar dy confidered in general, as it is frail and in motion ; this state indicateth that health must be intended, which e Parts w is the most general physical action, and the most genethe Adi ral Indicate; yet this action is in fom fort concrete, ed they a and equally includeth two general actions in the abftract, namly Confervation and Correction. For the general state aforefaid is also concrete, and comprehendet two like Confiderations in the abstract, namly, one of the parts yet qualified according to the prescript of Nature, which require a pure Confervation : The fecond of the parts fomwhat degenerated from their integrity Thele which in like manner require a pure correction. two actions are perpetually conjoyned in every work o Art. For he that conferveth, withal correcteth, that is he rectifieth lom irregularities; and he which correct eth, hath at the lame time confervation for the object of his Undertakings. The complication of thele acti ons is fo fubtil, that it feemeth to have poled that mol acute Phylitian Argenterius, who in his Book Off. Med affirmeth Confervation to be that very Correction which

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which is exercifed in the art of maintaining health. But his Error is twofold. First, because he supposeth Correction and Confervation in Uyiern to be one and the fame action, when indeed they are two distinct actions, however they are complicated in the Exercises of Art. For they are indicated (as we faid before) from the feveral Confiderations of the Indicant, and Confervation hath respect to those things which are according to Nature ; but Correction reflecteth upon preter-natural faultiness. Moreover, They are perfected by instruments formally distinct, yea opposit : For Correction even in the very art of defending health, is accomplishe by Contraries, but Confervation by Homogeneals; as in this Art we help Emptinels by taking Nourishment, contrary indeed to the Emptinels, but homogeneal to the Parts which are to be nourished : Therfore although these Actions be complicated in the Execution, yet indeed they are formally diffinct, and ought diffinctly to be entertain'd by the Understanding. The Second Error of Argenterius is, because he granteth the correction of Errors only to be the General Action of al Medicin, when as Confervation is equally universal and alike exercifed in al the works of Art.

No man doubteth but we conferve in the Hygienal part, and that we correct. Alfo Galen demonstrats in his Book, whether the matters of preferving health belong to a Physitian. You will fay, That Galen in that place doth prove every Medicinal Action to be correction, and that confervation is comprehended under the latitude of correction. But Galen must not be for underflood, as if he intended correction to be a kind of confrond, as if he intended correction to be a kind of confervation, feing that (as we have shewed before) confervation and correction even in this art of preferving health are actions formally different and differently di-**U** 2 ftinguished:

ftinguished : for Galen's meaning is, that every Medical action when it is actually administred, doth imply and comprehend correction, and in that respect may be called Correction, and fo by confequence Correction will be the general Action of all Medicine; yet Galen confelleth Confervation to be equally general. For what hinders but there may be two general abstracted Actions in Phyfick? That doth not deftroy, if any man have fuch conceptions, the unity of the Art, it rather indeed confirms it. For the unity of an Art confifteth in fome community, which may be attributed to all the parts therof; and this union is to be effected to much the more firm, as all the parts of art are reciprocally conjoyned among themselvs by more communities. If therfore there are two general A ctions, and those common to all the parts of Medicine, fo much the more firmly will those parts conspire the advancement of the Art. Wherfore he contradicts not Galen, that affirms confervation also to be a general Action of all Medicine; leing that the loope of Galen was only to fhew the unity of the Medical art by the community of that general Action, namely Correction; now he might as eatily have shewed it, if the nature of the thing had required it, by the community of Confervation. For in the Hygienal part of the most noble circumstance is the Confervation of the whol concrete action, and therupon the whol action is denominated from the more principal part, and the Art it felf an Art confervative. Although otherwife (as hath been faid) it also includes Correction. But in the Prophylactical part the principal icope of the Medical Action is prefervation, namely the correction of the caul of the imminent Dileal : yet this is to performed, and by fuch means which the prelent spirits can allow, but in no wife by such things as may dcitroy

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Now after the same manner the whole concrete Action (although as hath been said, it also includeth Confervation) is called Prefervation and Precaution from the more Noble part. Finally, In the Therapeutical part, although in like manner the whol concrete action be called Curation, and the art it self a Curative Science from the principal part of the action, yet to speak properly and truly all this action of cure may be divided into three abstracted parts, and evidently distinct ; namly, into the Cure of the cause, the Cure of the Diseas, and the confervation of the Spirits. For the Vital or Conervative Indication doth evidently, and by the unaninous grant of all Phyfitians belong also to this part of Medicine, and must be confulted of in every curative ation before it be undertaken. From whence it is malifest that this part likewife of Medicine doth perpetuually conferve, that is, provide and forefee in every Sure, least the Spirits should receive more detriment, han profit from the prescribed remedies. Al these things herfore being thorowly weighed, we conclude, That a eneral Indicate is a certain concrete thing, and may be roperly diffinguished into two general abstracted attins which are exercised in every part of Medicine, and hat in the work of art they pertually make one compleat r complicated action.

Moreover, The general Indicant, namely the State f the Body, as frail and in motion may be divided, fides the parts or obftracted confiderations already topoled, into three kinds, or rather three fucceeding inds equally and alike concrete : namely, into a found ate, a difeafed ftate and a neutrality. These three V 3 Species

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Species are the subjects of the three kinds of Method to Practice; namely the sound state of the Hygienal part, the difeased state of the Therapeutical, and the Neutral of the Prophylactical part. These three states are also concrete Indicants, and respectively Indicate what is particularly to be done, or what the Physitians Duty is in all those Arts: namely a found state indicateth the confervation of health; a diseased state the removal of some affect, and the Neutral state that the cauf of an imminent malady ought to be corrected least it break out into a Diseas. Now these three Indicates are alike concrete, and each of them as we have proved above, abstractively includeth both Confervation and Correction.

Finally, In a Diseased state the action of correcting is diffolved into two Species; into the correction of Caul, and the correction of the Diseal, and fo here may be discovered three kinds of abstracted actions. For a disealed fate brancheth it self into three Species evidently abstracted, into the Essence of a Diseal, the causes of a Diseal, and the Spirits or those things which remain in this state according to Nature. For those things which are preternatural and indicate correction in general, are here separated (as hath been faid) into two parts, namely into the Effence of a Difeal, and the Causes of a Diseaf; and therfore there are three parts of this state, each of which do formally and distinctly Indicate. Three kinds therfore (that we may put an end to this matter) of Indications are to be confidered in this ftate; namely, from the Effence of the Diseal, the Curative ; from the Causes the Preservative, and from the Spirits the Vital or Confervative. To the Caules we refer all impediments of cure, as also vehement Symptoms, and fuch as divert the Progress of the

the Cure to themselvs, for in this respect they are invested with the Nature of Causes. And thus much of Indications in general.

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CHAP. XXV.

Indications Curative.

First, Therfore the Essence of this Diseaf partly confisteth in a cold and moist distemper, this Diseaf therfore in respect of this part of its Essence Indicateth, not only that all those things are to be avoided, which are in any wise endued with a faculty to cheriss and augment that distemper; but also that the aid of such things ought to be implored, which may subdue the same; namely, hot and dry.

Secondly, This Difeaf partly also confisteth in the want of inherent Spirits, therfore not only all those things are to be avoided, which can any further fcatter, and confume the Spirits; but such things must be eleeted which are vertuous to reftore, cherish, and multiply them. Strong discuffing remedies are therfore in this case to be declined, becaus withal they confume the Spirits: in like manner such as are extreamly hot, for

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they cauf them to evaporate and vanish into air 3 but much more such as hav? power to diffolve the parts, as violent Catharticks. But the best nourishment must be chosen, and Medicines that are easy of Concoction, as much as may be, and amicable and benign to the Spirits.

Thirdly, The Effence of this Difeaf confifteth partly in a numbnels or aftonifhment of the Spirits : this numbnels infinuates a prohibition and abstinence from all fuch things as vehemently make thick and fix the Spirits or any other waies stupifie them, as narotical remidies, and many Minerals, which participate of the nature of Lead, as Cerus, Litharge, Sinople or Vermilion; and all fuch things as have power to excite the Spirits, to expel their stupifaction, and to render them active and agile, are to be made choice of, as exercises, motions, Frittions.

Fourthly, The Tone being over foft, loof, flavid, and withered, indicateth an avoidance of fuch things as are wont to mollifie, loofen and weaken the parts; and that fuch Medicines are to be outwardly applied and inwardly given, as may render them more firm and folid. The fame *Tone* as it is internally too brittle brings a fufpicion upon all fuch things as abound much with an inward flipperinefs, and feemeth to defire fome roughnefs, or indeed aftriction in those things applied or taken.

Fifthly, The corrupted Vital Conftitution on the part of the Generation of the Vital Spirits is not fo confiderable; but on the part of the diffribution of the Vital Spirits, the inequality thereof is of great importance, and indicate h a caution to be had of those things which promove the flux of the Blood towards the Head, as alto of fuch things as retard the paffage thereof to the first affected

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affected parts, but that choice must be made of fuch things as ftir the Pulles of the Arteries in the parts first affected, and temper those that are in the Head. A flow and diminute current of the Blood through the first affected parts indicateth the fame things, namely an evocation of the Pull to those parts. But an over facile and flippery paffage of the Blood through the habit of the parts, is coincident in its indication with the flipperinels of the Tone lately recited. A detect of the Vital Constitution on the part of the union sufficiently vigorous and pleafant between the Vital and the Natural Spirits, indicateth an election of fuch things as can both nourish and cherish the Spirits, and also excite them to a greater activity, and that their contraries ought to be avoided. The Vital heat, as deficient indicates almost the fame thing as a cold distemper, provided that regard be had withal to the ftrength of the Heart and Arteries, and to the vigor of the Vital Spirits.

Sixthly, The unequal Nutrition Indicateth those things which promove the even and impartial distribution of the Aliment and Heat. Or indeed that which is too liberal to the parts that are nourished beyond a due measure ; the extenuation of the parts requireth a fuller Nourishment. The irregular magnitude of the Head, chiefly things extenuant and fuch as are of the flux from the Head. The Tumors of the Bones indicate the fame thing ; the crookedness of the Bones require such things as attract the Aliment to the hollow fide, as moderate rubbings; but things reprefling chiefly on the gibbous and bunched fide, as ftrong bindings. The bending of the Joynts, infinuateth an Artificial erection of them, as much as is possible. The narrownels of the Breaft pointerh to Pectorals, and luch ABRI things

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things as have a faculty to dilate the Breaft; but the Inarpnels therof indicateth fuch things as have a dilative Vertue. humors

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Sevently, The imperfect diffribution of Animale Spirits, and fomwhat defective in the first affected part indicateth *Cephalicals*, and fuch things as facilitate th diffribution, as exercises, rubbings, and the like. A defect of due ftretching in the Nerves, or Nervous and Fibrous parts, indicateth those things as *Corroborate* the Nerves and strengthen the parts. Thus much of Indications Curative, the Prefervative follow.

CHAP. XXVI.

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Indications preservative.

* The Antecedent or the prefent caules of a Difeaf Those which flow from the former kind of causes concern the *Prophylactical* Part: her we only propound those which proceed from cause that are present and contained in the Body; namly, fr om common causes, or such as are proper to this Difeaf.

Now although that common caules do not feem immediatly to attain to the production of the Effence of a Difeaf; yet even in this respect that they are esteemed an impediment, and may retard the cure, they Indicate their taking away.

These caules are either impurities, or excrementitious humors

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humors collected and impacted in the first passages, which unless they be taken away, do not only infect the nourifhment inward, but they fornwhat dul, or otherwise hinder the appropriate Medicines. They indicate therfore an evacuation either by a gentle vomit, or by a lenitive purgation, as occasion shal rather perfwade to this or that : or they are common causes deeper imbited into the Parts of the Body, and these also require an evacuation. But seing that according to this kind of common causes it is at the same time driven away and almost with the same Medicaments, as are the causes which are proper to this Discas, we shal conjoyn both the kinds of them in this present confideration.

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The caules therfore which are proper to this Difeaf, as alfo the Common caules which have a deeper penetration into the Body, may be divided into Blood and *Cacochymical* humors. The Blood indeed, although it be rather deficient than redundant in the first Affected parts, yet in the Head for the most part it requires a particular evacuation, which utually is performed by scarification of the Veins in the hollow of the Ear. Hither likewife we may partly refer blifters raifed between the first and second turning Joynt of the Neck, although these perhaps may relate over and above in part to the *Cacochymical* humors.

Cachechymical humors are divided into those which ftil flow in the channel of the Veins, and into those which are impacted in certain parts of the Body. The causes or humors flowing in the Veins do (primarily and intentionally) Indicate their evacuation. But if they be unapt for motion (as to the execution) then they require som previous preparation. But because it happens for the most part, that not al the humors are equally unapt, but that som are sufficiently flexible, and others not so fo, but refift the Medecines, in this cafe they indicate a lefs evacuation and then a preparation.

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Moreover, These humors in the chanel of the Veyns may be subdivided into Feaverish (namly, if there be a putrid Feaver) and not Feaverish. The Feaverish humors are either fwelling, or not fwelling. The fwelling, that is, those which are unquiet, or imperuoufly agitated, do Indicate a sudden evacuation, at least a leffer, unless perhaps they are carried of their accord to the external and more ignoble parts, as it happens in the small Pox, the Meazels, and the like Affects. But if a Feaver be prefent, and that acute, and yet the humors are not fwelling, they chiefly Indicate that peculiar preparation which they cal coction, that by this means they may be obedient to the Medecine to be aftergiven, and than evacution, but if the Feaver not be acute but Chronical, although the matter be not irritated, and yet fom part of it be sufficiently flexible ; in this case, a leffer evacuation is first indicated at any time of the Diseaf, and afterwards the coction of the relicts, that they also in their zime may be evacuated.

The humors contained in the Veins which are not Feaverifh, if they are fluxible, they first indicate evacuation : but because in this Affect flow, gross, and clammy humors are almost perpetually present, preparation (at least wher a leffer evacuation hath gon before) is first Indicated ; and indeed the viscous humors Indicate incident, and the thick attenuant remedies. Again, when the Difeas is very Chronical and extended to many months ; yea, perhaps to a year and upwards, it is not to be supposed that the whol matter causing the Difeas can at once be prepared or evacuated; wherfore in this rerespect it Indicateth, that we infift upon things preparatory and evacuant by turns. Besides we must know that Cho-

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Cholcrick humors require one preparation and evacuation, and Melancholy humors another, flegm anothers and watry humors another. And that the preparation and purgation is Indicated varioufly according to the diverfity of the humors commixed with the Blood.

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The humors that are impacted in certain parts of the Body do much more require preparation before they are evacuated ; according to that of *Hippocrates*, *When you would purg a Body*, you must first make it fluxible. Neitherdoth a certain general purgation fuffice to fubdu thef humors, but fuch a preparation is required, that hath a peculiar reference to that part, in which they are inherent, and therfore the humors in the Liver require one kind of preparation, those in the Lungs another, &c.

Finally, Seing that the propounded kinds of all humors, after they are evacuated, may grow and breed again; they Indicate an avoyding of fuch things which may dilpole the Body to an easy generation of fuch humors: And thus much of Indications Preservative, in remaineth now that we confider the Vital and Confervative.

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CHAP. XXVII.

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Indications Confervative, Or Vital.

**** His Indication arifeth from those things * T * which are according to Nature. For Life in it felf confisteth in these things; namly, in a triple (onstitution of the Body, the Natural, Vital, and Animal above rehearsed.

The Natural comprehendeth under it First, The Temperament.

· Secondly, The Inherent Spirits with their plenty and vigor.

Fourthly, The Tone of the Parts. Fourthly, The Structure of the Organs. Fifthly, The Continuity.

The Vital containeth

First, The Generation Secondly, The Distribution of the Vital Spirits. Thirdly, Their participation with those parts, unto which they are distributed; namely, from the union of them with the said parts, and the communicated heat.

The Animal comprehendeth First, The Generation of the Animal Spirits Secondly, The Distribution of the Animal Spirits Thirdly,

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Thirdly, The due Stretching of the Parts depending upon the Influx of the Brain.

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All these things because life confisteth in them, are called Vital Indications. But among Authors for the most part they are known by the common name of the Spirits, but this name is somwhat to gross, seing that in propriety of speech, the Spirits are radicated in the faid Constitutions, and are faculties of them. Yet we have no defign to innovate the custom of speech, provided that the things may be understood as it is.

These Indicants so long as they continue firm and found, they require only a general and ordinary confervation by the right use of the fix non-Natural things; but when they are all alike vitiated or obnoxious to imminent hurt, they require not only a general confervation, but fuch an one likewife, as is mixt with cure and preservation. Again, Where some one Constitution, or 'fom one part therof is depraved more than the reft or subject to such depravation, besides the general prefervation, it requireth in like manner an especial one to be affociated to the peculiar Curation. Lastly, When a Conftitution Subject to error, or actually erroneous is fixed to fom certain part, it doth higher specify that confervation; namly, that respect may be also had of the part to labouring more than the reft.

But because som fay, That the Vital Indication is the only, and that Confervation is the simple end, and that they cannot be further subdivided, because that all things, which are according to Nature are comprehended in the word Spirits, and that they Indicate one Action; namly, the prefervation of themselvs. We grant indeed that the Spirits, if (as we have already noted) they be improperly taken for their causes; namly, the three

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three Constitutions aforesaid, may in one word comprehend al things which are according to Nature, but then this word must be Generical, and divisible into three species ; namly, the three Constitutions, as Spirits Natural, Vital, and Animal. We grant also that the end, or that the Indicated action is one ; namly, Conservation, but by the unity of the Genus, not of the ultimate species. For those very things which are according to Nature, however they agree in the Genus, yet in the species they may differ among themselvs, and require a different confervation; yea, it is possible that thos things which conferv the Spirits on one part may impugn them on the other ; as for example : Wine given may in one respect cherish and strengthen the Vital Spirits, or rather the Vital Conftitution, but in the interim it may offend and debilitate the Animal Spirits, or the Animal Conftitution. In like manner the Temperament requireth one prefervation, the Structure of the Organs another, and the Continuity another. Yea, the very different Constitution of the parts Indicates a various confervation, neither do we after one and the fame manner or by the same actions provide for the special confervation of the Liver, Langs, Brain, &c. Wherfore when fom one Constitution is more infirm then another, or when fom one part is weaker than another, it Indicates a proper conservation peculiar and special to it felf, and therfore both Confervation and Confervants may be divided into their Species. For the Confervation & the Confervants appropriated to the Animal conftitution, differ from those which are destinated to the Vital or Natural : And from hence the three first kinds of Confervation are to be deducted, namly, the Confervation of the Animal, the Vital, and the Natural conflitution. In like manner the Confervation of the Liver

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ver is accomplished by the use of the Hepaticals, and of the Lungs by Pectorals, Orc. Yea, all parts of an eminent diversity do subdivide the conservation into so many more species. Thus much of the division of Conservation into its species.

Moreover, The fame Confervation feemeth to be further divifible unto its parts. For this Confervation is fomwhat complicated, and doth not only relate to fimples, but in fom fort to contraries, to wit, Indicates both Carative and Prefervative, and either permitteth or difalloweth those fame things being estimated with the Spirits. It feemeth therfore to be branched into three parts, into an election of like matters, into an election of contraries under a certain condition, and into a prohibition of the fame under a diverse condition.

The election of like things is the moft appropriated *Action* to Confervation, and feems withal to have refeence to two kinds of things alike 5 namely, fuch as are afily affimilated, and are properly nourithments, and uch which although they cannot be affimilated in repect of their fubftance, yet they contain within the ime qualities like unto the conflictution of certain parts, n refpect wherof they are reputed amicable and familit to Nature, and do cherifh and ftrengthen certain arts.

You wil fay, These are indeed Alterants and do bemg to the kind of contraries.

We answer, That in a diverf respect they may be rerred to each kind, but in as much as they obtain quaties like unto the du Nature of the parts, although oterwife they alter som smal matter, yet they are to be ferred to the similaries. For the very nourissments do fom degree alter, and are directly contrary to emptiis, and confervation it felf doth implicitly include 2

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certain correction, as we have shewed above. Now these indeed in regard of a middle nature, which they have between similaries and Alterants, are not called Medicaments, but Strengthners, Confervants, and Cordials; Again, these are Indicated as Confervants by the peculiar debility of the Spirits, and as to be elected, and not only permitted, and so they are esteemed in the Books of Practical Authors.

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The Permission of a remedy fomwhat contrary to Nature doth likewife belong to this Indication. For fuch is the dignity and valu of this Indication, as it fummons both the Curative and Prefervative Indicates to an examination before they are reduced into practice, and doth not only moderate and limit the quality and quantity of the remedy, but also the very time of repeating it, yea, whatloever appertaineth to the ufe therof, or the manner of using it, and al this least in any wife it should exceed the Spirits of the Patient, or be injurious to them : nor is the excellency of it thus circumscribed, but it requireth more; namly, that more profit and advantage may accrue to the things, according to Nature by impugnation of the Difeal, then hurt or detriment by any violence offered to Nature. And under this Law and Condition. Vital Indication permitteth many things to be don, which of themselvs are contrary to the Spirits, yet always in favor of health, never to the prejudice of Life.

A prohibition of a contrary is altogether a commanding Action of this Indication, and by a kind of Authority dictates this or that thing not to be don, (although it were otherwife Indicated) becauf perhaps it endangers life it felf, or brings more difadvantage than benefit of health to the parts. And this is the third and laft force and use of this Indication. We fhal not

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now in one word apply these things to the present Diseas.

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All Conffitutions in this Affect are very weak and infirm; and this is manifeft from the bare confideration of this tender age. But the Natural doth ver further fuffer by the force of the first Effence of the Difeaf; and from hence also the Vital is somwhat weakned, and indeed neither doth the Animal escape wholly free, as was shewed above. Wherfore both a general and alfo a particular regard must be had to these Conflitutions, as wel in the *Election* of Similaries, as in the permission or prohibition of contraries.

First, Therfore in this Affect you must make choice of the best nourishments, such as are easy of concostion, and as near as you can agreable to the custom and age of the Patient, to the time of the year, &c. the contraries must be abandoned, namly, such things as nourish little, are difficult of digestion, and incongruous to the custom, age, and feason.

Secondly, Those things must be chosen which cherist and strengthen the weaker Constitutions, and the parts that are most Affected, and these must be either exhibited severally, or they must be mingled with nourishments or Medicines; but such things as are neither serviceable to this scope, nor otherwise Indicated, must be totally avoyded.

Thirdly, Benign and gentle evacuants, or othertherwife fufficiently corrected, must be allowed in a moderate quantity, just and du interval of time being observed. But the contrary things; namely, violent and fierce purgers, especially such as are apt to diffolv the parts, or are exhibited in an undu quantity, or too often repeated, are forbidden.

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Fourthly, Remedies alterant, or fuch as prepare the humors, or correct the Difeaf must be permitted; fuch also as are friendly and familiar to Nature, or fuch as may be made fuch by good company, that is, by composition or sufficient correction. Remedies violently alterant, extream hot, and vehemently difcutient, or any other which in any wife refoly and diffipate the parts.

CHAP. XXVIII.

The use and right administrations of the Indications aforefaid.

** * Aving propounded the three kinds of fimple H& Indications, and deduced them into their * loweft species, we shal in the next place confider the right use & administration of them. The exact knowledg wherof feems impoffible to be obtained without rode and experience. For it descendeth unto Individuals, and comprehends not only the Election of a thing among fo many Indicates fimply to be don in the Species, but also the invention of quantity, place, form, time, order, and matter of the remedy to be exhibited.

The Confent and Diffent of Indications do contribute much to this invention. Now the Confent may be twofold : of Coindication and Permission. Permission may be either an Advantage or a Laß to him that permitteth

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or neither of them. A *Permifion* that cannot be granted *without hurt*, muft never be allowed without the greateft circumspection, and so much the greater, as the damage may be the more to him that permitteth. For although the Permittent may part with somwhat of his private right to advance the publick good, yet in respect that he is a member of the whol he is supposed to be a gainer.

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The Diffent of Indicants is twofold; namly, either Contradictory or Contrary. The Contradictory among the Books is called Interdiction or Prohibition, and for the most part it is appropriated to the Spirits, unto w^{ch} in this respect we must always yeeld obedience. The Contrary is called Contra-indication, and this doth not fimply forbid, but so far forth as it undergoeth the Nature of an impediment, or fom more urgent Indicate.

First, where Indicants consent, either by Coindication or Permission, satisfaction if it be feasible must be given to al the Indicates : But if this cannot be performed Medicines of that Nature are to be preferred before the rest, which are correspondent to most, or at least to the most urgent Scopes. But if such simples cannot be found out, then you must institute an apt composition of diverse simples one with another.

The Effential parts of this Difeaf, although they are very various, yet is there not any confiderable difagreement among them, and nothing hindreth but in a great part they may be confidered together. For Medicines temperatly hot and dry, may at once cherifh the Inherent Spirits, and perhaps conduce to the fcattring of the numbnefs in them, and withal fomwhat fortify the *Tone* of the parts, and facilitate the equal diffribution of the Blood, and confequently the equality of the Nutrition : alfo it may increase vigor in the Vital and Animal Spi-

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tits, proritate the Arterics in the first affected parts, and ftrengthen the Nervs : unto which Heads almost al the Indicates of the Essence of a Difeas may not unaptly be referred. Moreover, the Spirits also, although they prohibit all extream hot things, yet they allow of these as moderat, and very congruous to Nature. In like manner there is little or no particular repugnance between these causes and the Indicates, albeit in respect of time and the order of administration fom diffent may be obferved, as we shall see afterwards in due place.

Wherfore in what refpect and how far these agree together whilft we intend a cure, we do at once respect not only the Spirits, but in som fort the caules, by choosing such curative remedies, or by mingling such ingredients with them, which are able both to attenuate the thick matter, to cut into the viscous, to open the obstructed passages, and the like. In like manner, whils we are chiefly imployed either in prefervation, or in the rooting out of causes, we make choice of such evacuants, or eli we compound them with such remedies, as are also partly contrary to the Diseas. And all these things we do to that purpose, as that (as hath been such) we may be subservient to the most intentions we can.

Now having found out the actions fimply requifit in the Species, in the next place we shal enquire out their du circumstances.

1. In regard that this is a great Difeal it requireth a great quantity of the Remedy, in respect of it felf. For a Remedy unequal to the Difeal cannot extirpate it. It is neceffary therfore that the dole of the Medicine be equally to the magnitude of the Affect. But in this Difeal the Spirits permit not fo great a quantity of Remedies to be given at once. Wherfore that quantity must be divided & given by turns. For this is a Chronical Difeal, and of flow

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flow motion, neither doth it neceffarily require an hafty Cure, and although the Spirits cannot well endure either vehement Remedies or fuch as are given in a large dofe, yet they permit the use of Evacuant Medicins by an Epicrass. Wherfore by turns, we must some make use of Remedies Preparatory, some Evacuant, some make use Alterant, and some strengthing.

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Secondly, For so much as belongeth to the place of administration, the general Rule is, that the remedy ought to arive at the feat, and penetrate to the very Caufe of the Difeaf. If therfore it must have a passage into the Veflels, it must be taken at the Mouth; but if it will suffice to touch only the thick Guts, it must be injected by the Fundament. If the humors be naturally ready to move upwards, expel them by vomit ; if downwards evacuat them by fiege. In like manner you muft humor the inclination of Nature, and root out the caufes by spitting, by Urin, or by sweating. Particular evacuations must be instituted in the very affected parts, or in the parts adjacent. For fo the force of the Remedy doth the more furely make way to the feat of the Diseaf and the morbifical Cauf. And for the same reason external and topical Medicines must be applied to the next convenient place. Yet you must know that there is a certain Sympathy between fom parts, in which cafe the remedies ar frequently administred to the part, wherwith that confent intercedeth, and neither to the affected nor the adjacent part.

Thirdly, The form of the Medicament doth partly depend upon the Rule laft propounded. For if the scope be to lenifie the Jaws or the Windpipe, we chuse a licking or lapping form, that by degrees the remedy may flide over the affected parts, and stay the longer upon them. In like manner, if the Stomach be affected, we X 4 often

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Often prescribe Pils, Pouders or Electuaries, that they may the longer abide in the Stomach. To the Kidnics we rather defign liquid things, that they may the more eafily be carried down to them with the wheyish part of the Blood. The forms do alfo in forn part depend upon the very nature of the Diseaf, as in burning Feavers liquid things are for the most part convenient, dry things are scarce admitted; on the other fide, in moist Diseases, and when the Belly is overfoluble, more folid forms are preferred. Finally, the forms of the Medicines do alfo partly depend upon the nature of the Ingredients. So Caffia worketh most effectually in the form of a Bolus ; Hartshorn, Coral, and the like in the form of a Pouder; in like manner bitter things, fuch as beget a vomiting, and ftinking things are concealed in the form of Pills ; fomtimes also they are guilded, or elf they are enwrapped in Wafers, and exhibited in the form of a Bolus.

Now it must here be noted, that for the most part the form of the Remedy is not to confiderable, as it gives place to the more easie and commodious administration, in respect of the Admission or Reception of the Sick. For many cannot swallow Pills, others presently reject their Potions by vomit, & others are perhaps avers from other forms. In this Affect, in regard that all Children almost are loth to take Physick, that form is to be preferred before the rest, which shall be observed to be least distaltful to them.

Fourthly, As for the time of action, you must fo endeavor to fit your administrations, that they may as little as possible be interupted with times of eating, exercise, or fleep, for at this age the Spirits are scarce preferved found and perfect, without an interpolition of those things by just internals.

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Remedies evacuant, opening, attenuate and incident, muft be taken early in the morning upon an empty ftomach; and if they muft be repeated the fame day, four of the Clock in the afternoon (upon an empty ftomach likewife) is the moft feafonable hour. Strengthning and aftringent Medicines, and fuch as provoke fleep, are to be taken rather in the evening than in the morning; but perhaps fom of thefe are moft agreable after meals.

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Medicines that are mingled with the nourifhment, ought to be gratful to the Palat, left they fubvert the ftomach and hinder concoction, or cauf a loathing of the meat, or elf empair the Spirits.

As for the order of proceeding, there occur two general Rules. The former is, That that must first be don, which being premised makes way for the following Remedies, and therfore that ought first tobe removed which hath the consideration of an impediment in respect of what must follow. The later is, That we must ever give our first help to the more urgent and weighty Indicant, unless fom impediment intervene.

If the Queffion therfore be, whether the Difeaf, or the Cauf of the Difeaf doth first require the help of Fhysick? The answer will be obvious according to the first Rule : For the causes are reflected upon under the notion of an impediment in respect of the Cure of the Difeaf; for they cherish it, and infringe the vertu of the Medicins. Wherfore, before that we are intent upon the vanquishing of the Difeas, we premise all possible endeavors to root out the Caus, or at least to lessen and retund it, that it may oppose no considerable force to retard the rooting out of the Difeas. Yet in the interim whils we are busie in the removal of the Causes, the Effence of the Difeas must not be totally neglected, as we have before admonished. Yea when we have so subdued the Cause tha

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that it cannot for the prefent much interupt the Cure, we may (the Caufes not being utterly over-come and caft out) the more diligently and earneftly attempt the refifting of the affect; yet with this condition, That if the Caufes revert and becom new impediments, that then we are obliged prefently to undertake the fubduing and evacuation of them: fo that in this Chronical Affect, fomtimes the Caufes, fomtimes the Difeaf muft be refifted by turns: and the Spirits do better undergo this change of action, than if we fhould continualy make our battery againft the Caufes, till they were abfolutely rooted out.

Moreover, When the Caufes of the Difeaf in this Affect are unapt for motion by reafon of their toughnefs, grofnefs, and perhaps fetlednefs; they muft firft be freed from this impediment and prepared before they are evacuated. For according to the Rule of the great Dictator, Quæ movenda funt, fluida prius facere oportet. In like manner, that thicknefs, toughnefs and fetlednefs of matter, if it be prefent, indicate Remedies attenuant, incident and opening. But thefe things are not fafly taken the impurities ftill flowing back into the firft Paffages, for then perhaps they are carried along with the Medicines into the Veins, and more defile the Blood, or at leaft hinder the efficacy of the Remedies. Thefe therfore have the nature of an impediment, and muft be in the firft place removed.

Laftly, Univerfal Evacuants muft be premifed before Particular and Topical Remedies, efpecially where it is not permitted at once to mind both intentions. For the Univerfal Caufes flowing in the Body are eafily furrogated in the room of Particular Evacuations, and renew the Afflux to the first affected part: but the thinner part of Particular Caufes and that which is most apt for motion

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motion is evacuated, but the thicker perhaps is more impacted. Wherfore Univerfal Caufes yet flowing to and fro in the Body, as confidered are Impediments in respect of Particular Evacuation, and by confequence must be first expelled.

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The latter Rule was, That we must releeve the more urgent and weighty Indicant first, unles there be an interuption of fom impediment. That is termed an urgent Indicant which threatneth the most danger. Now every fuch Indicant is supposed to induce great afflictions into the Body, and not without manifest danger to walt the Spirits. Therfore in this respect, we must sometimes first help the Diseas, the Caus being neglected : Somtimes also we must neglect both the Difeas and the Causes, and adress our endeavors to the pacification of the Symptoms, as in a vehement Flux of the Belly, long Watchings, profuse and immoderat Sweating, and the like. But even in these cases, we must have a prudent regard both to the Difeaf and the Caufes, and when the urgent Symptom is corrected, or the violence of the Difeaf repreffed, then we must return to the regular Method of proceeding; for this Rule belongs not to the ordinary and legitimate order of Cure, but to the Method of Neceflity.

Moreover, to perfect the right administration of Indications, there is required an exact and accurat knowledg of the *Medical Matter* whereof we shal discours in the subsequent Chapters.

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CHAP. XXIX.

The Medical Matter answering to the Indications proposed, and first the Chyrurgical.

HE Medical Matter must be found out by Experience and Analogismes, or Arguments drawn by an answerable necessity from the Caus to the Effect; although the truth is we conceive not any other Reasonings to be absolutly excluded. It is vulgarly and not unaptly distributed into three kinds, The Chirurgical, the Pharmateutical, and the Diatetical: Of these in their order.

The Chirurgical commonly received and approved in this Affect, and famous above the reft, are chiefly two; Scarification of the Ears, and little Fountains or Issues. But our enquiry (as we fhal see anon) shal be extended to many more, namly of Cuppin-Glass, Leeches, Blisters, Ligatures, and Swathing-bands: But the opening of a Vein the Spirits cannot brook, as every one knows, who but observes the frailty of the age, the extenuation of the habit of the parts, and the simalnes of the Veins.

The Scarification of the ε ars that lead our difcourf. The Empericks who undertake the cure of this Difeaf, make more of it than one would imagin. For in their practice they celerate it with great vaporing, and without it fcarce hope for a happy cure. But we, although we dif-

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difallow not this kind of remedy, have feen many Children successfully recovered without the use therof. And they themselves who attribute most unto it, for the most part take away no considerable portion of Blood. Yet some affirm that they have seen a large quantity of Blood drawn away with good event. However it be, it is credible that those Children do with most case endure this remedy, and obtain most profit by the use of it, which are of a Sanguin complexion and wel habited, and who are affected with an Alogotrophy, rather than an Atrophy or a Confumption, or any other remarkable extenuation of the parts. Our Practitioners for most part repeat this operation two or three times in a week. They feldom do it with an Inftrument or tharp Pen-knife, but most commonly with an ordinary blunt Knife, taking no notice of the pain and crying of the Child. Moreover, For the most part they perform it in the hollow of the Ear, but some extend it to the inward and outward circumference of the upper part of the Ear, yea to the whol circumference. No man hitherto as we know have attempted the Scarification of the hinder fide of the Ear, although indeed it is not easie to give a reason, why it should conduce less being administred there than in the hollow part.

Yet it may be lawful for us to offer our conjectures why the hollow of the Ear fhould be chosen before the other parts for this operation, which notwithstanding we will not confidently affert, although we suppose we can at least probably affert it, if that be true which the most diligent Chyrurgion Fubricius Hildanus hath written in his Observ.4. Centur. 1. de nervo quinti parus: For this conjecture is grounded upon this Observation, and if that be ruinous this perhaps must perish with it. The Conjecture is this, The distribution and use of the Nerve

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Nerve and of the fifth Pair before mentioned being fupposed, Scarification in the hollow of the Ear may very conveniently both free that Nerve from any kind of oppreffion, and likewise (bake off the numbres, and give it vigor. For the hollow of the Ear is the next place unto it which we can come at with an inftrument. Wherfore evacuation being here made may immediatly drive away the matter which commonly oppresseth the very beginning of that Nerve, and withal caufing pain and encreating the heat, and may drive out all flupidness from within it, and ad vigor unto it. If this Nerve therfore (as that famous Chyrurgion affirmeth) or a part therof be distributed unto the Marrow of the Back and never forfakes the Marrow of the Back, but fhooteth out little Branches with the Nervs of the Marrow of the Back to the ends of the very Legs and Feet; it may eafily be granted, that this Nerve thus delivered from obstruction, thus excited and having gotten vigor, may likewife in some manner excite the Marrow of the Back it felf, and all the Nerves from thence arising, which by that opinion it doth accompany to the very end of the Body, and imprint some vigor in them. Wherfore Scarification being made in that place must needs be of greater efficacy, than if it were inftituted in any other part of the fame Ear, more remote from the aforelaid Nerve. The fame may almost be faid concerning the little wound here made by a blunt Knife. For some Practical Phyfitians affirm that the excellency of this operation relats not fo much to the quantity of the Blood to be drawn, as to the ftirring up of pain in that part; which any man may eafily reduce to the ftirring up of the vigor of the Nerve of the Fifth Pair.

But omitting this Conjecture we will propound fome other Confiderations, in respect wherof this Scarification

tion may be uleful in this affect. First, By this means we obtain a certain particular evacuation of the Head, which part, if any other is in this Affect oppressed with a particular fulnels. Secondly, By the very evacuation of the Blood we somewhat correct the thickness and toughness therof, and by consequence we promove the more equal distribution of it, and a more regular and equal Nourishment of the Parts. Thirdly, By this means we in some fort drive away the aftonishment of the parts.

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It must be noted that this operation when it performeth a particular and local evacuation, doth not simply deferve the first place in the Method of Cure, but must follow in its order, Universals being premised.

Laftly, It feems to be ridiculous and fuperfittious which fome are bufie about when they administer this Scarification; whilst they fasten the Blood of the right Ear suck'd up into Wool to the left Hypochondry, and the Blood of the left to the right. Thus much of Scarification.

Iffues in this Difeaf are much approved, and we have known fome Children cured only by the help of this means. For it doth not only perform all those things, which even now we alcribed to the Scarification of the Ears; but more particularly it is a powerful remedy againft the Hydrocephalus, both Curative and Prefervative, and very much conduceth to leffen the unufual magnitude of the Head, and to evacuate the superfluous watriness therof. And lastly, to repress the inordinate encreas of the Bones. Also it manifestly drieth up the too much humidity of the Spinal Marrow, exciteth heat, ftrengthens the Nerves, and expelleth the altonishment.

Now becauf this kind of remedy is properly a little Ulcer ;

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Ulcer, and causeth some small pain to the Child that hath it, and bringeth dayly some trouble to the Nurs, it ought not to be prescribed, unless the greatness of the Diseas be such that we despair to conquer it by other remedies without the concurrence of this.

This little Fountain must be made between the Second and Third turning Joynt of the Neck. Some Burn it with actual Cauterifing, but we difapprove of this way in regard of the vehemence of the pain : Some effect it with a potential Cauterifing : but neither do we like this, becauf all Caufticks are adverf to the Nature of an Infant, infinuating fome venemous quality, and at leaft do too much diffipate the Spirits, and weaken the parts. Therfore we allow rather of an Infue made by Simple incifion with a fharp Penknife.

Some make use of Iron tongues contrived for this purpose, wherwith they take hold of the Skin, the place of incision being first mark'd with ink, and by a moderate compression they dull the sense of the part, and then they thrust in the Pen-knife through the middle of the tongs which is pierced with a longiss hole, and so they make the incision. Having made the wound they stop in either an Artificial or a Natural Pease, putting upon it a digestive Plaisser : upon this they wrap a Paper or a linnen cloath divers times doubled, and fasten to it as it were a Buckler made of some solubled, and fasten to it as it were a Buckler made of some solubled and solution. In the next place we shall examin some other kind of Chyrurgical Operations.

And first Leeches offer themselves. Truly we have not yet sufficiently tryed how beneficial the application of them may be in this Affect. But if we consult Reason, we suppose that more hurt than advantage may be expected from this remedy. For if they are applied to any

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any part of the Head, by reason of their continual fucking they would easily caus a more violent afflux of the Blood to those parts. And if they be applied to other parts, they draw the Blood from the parts which before had too little.

Secondly, Cuppinglaffes are not (we conceive) fo dangerous as needlefs ; indeed we altogether reject those that are ministred with Scarification, not only for the Reasons just now deduced from the Leeches, but being moved both by fear of dejecting the Spirits by reason of the pain, and also in regard of the troublefommels of the administration. Cuppin Glaffes without Scarification, as we began to fay, seem not refusable either by the Spirits, or the Diseas, or the causes of the Diseas. But these are very little effectual, and we leave it to be perpended, whether the profit arising from the use of them, whatsoever it be, can recompence the trouble of the application.

Nevertheles it may happen by reason of the complication of some other Difeas, that the use of them may be of some moment, as in a Pleurisse, a Phrensy, and wher som dangerous Flux is iminent against some principal part; in which case, those perhaps that are adhibited with Scarification, may be admitted in great and strong Children. But then you must apply them to the turning Joynts of the Neck, the Shoulders, the Hanches, to the inner parts of the Thighs, to the sols of the Feet, and to other places as the peculiar complicated affect shall require.

In the mean time it must be noted, that in an age fo tender, you must make use of very smal Cuppin-glass, and that they must be applyed with a less flame then they are wont to be in others of mans estate, and that the scarification, if at all it be admitted, must be don with a gentle hand. Y Thirdly,

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Thirdly, As for Blifters, although hitherto we have not had fufficient trial of them, and although we banifh from this Difeaf both feptical applications, becauf they diffolve the parts, and alfo cauftical, becaufe they penetrate deeper and produce a crufted fubftance, yet we conjecture that those *Pyrotical* remedies which only raife Blifters in the Skin may be fomtimes profitably admitted.

You wil fay that Cantharides wherwith they are commonly made are extream hot, and befides suspected to be of a venemous quality.

We answer, That we may not here infert any thing of the qualities of Cantharides, we grant that which is afferted. But becauf they are administred only to the outward little Skin, and only to a little part therof not much extended, and becauf as foon as the blifters are raifed they are removed, the excels of their heat and their poylon scarce penetrates deeper into the Body, than the bottom of the Epidermis, and therfore this remedy may be applyed without any notable harm or danger. But then you may demand what profit can arile from hence? We affirm, that it doth effectually correct a cold and moilt diffemper, and potently diffipate the aftonishment of the Marrow of the Back, the Brain, Nervs, and the Nervous parts, and withal that they make all the parts more firm and steady, and stir up a stronger Pulie in the external parts; al which things are of no imal moment in the cure of this Difeaf.

One amongst us affirmeth, that among other things he prefcribed this remedy to a Child of two years old who was troubled with the *Rachites*, and was also fallen into a continual and malignant Feaver, and grown almost frantick. Hereupon the Child found prefent and manifest eas, and after a few days was delivered from his Feaver

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Feaver. Afterwards having purged him twice or thrice with an infusion of Rhubarb, &c. Beyond the expectation of all that faw it, he also subdued this Affect almost without any other remedics. But as you can scarce find any commodity without a difcommodity : fo neither is this remedy exempted from al inconveniences. For it is unpleasing, ful of pain and molestation to Children : Moreover, for a time it interrupteth their exercile and p'aftime, in respect of which things, unless perhaps som other complicated affect do point at an interdiction of exercile, it may do much more prejudice than advantage. Again, the force of it luddenly walteth, and af-. terwards by degrees is confumed, which doth not in all respects keep touch with a Chronical Diseas. Finally, an Iflu which is proper to Chronical Difeafes, may very wel supply its place in this affect. Wherfore we scarce admit the application of blifters in the cure of this malady, unlefs fom acute Difeaf be complicated, which may require this kind of Remedy, as it fals out in the Caufe propounded.

Now wher this administration is requisit, it is most commodioufly performed upon the turning Joynts of the Neck, unless fom Ifiu have prepoffeffed the place; in which cafe you must administer them either behind the Ears, or four Fingers below the Islu. We deny not but it may be fitted to leveral other places in respect of the complication of other Diseases. But we here design the place which a peculiar reference to the prefent Difeaf.

Fourthly, Ligatures also may be referred to this Title, and indeed we grant, that fomtimes they are not altogether unuseful in this affect; namly, if they be very moderate, and adhibited by just distances, and unto converlient places; but you mult beware that they hinder not the growth of that part, wherunto they are applyed:

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plyed ; which is don if they be fufficiently loofe, and made of foft wool, if in the Day time, or for fom part of the Day they are tyed up, and unbound at night, if they be fitted to the Thighs and Legs upon the Knee; and to the Arms upon the Elbow.

Yet Ligatures do here seem to conduce much to the stoppage of the Blood from flowing to the Head, and that it ought to be failtned to the outward parts that are extenuated : besides, this Remedy is good to retard the over flippery return of the Blood in those parts, unto which the Ligature is applyed.

Fifthly, Hitherto also belong the Fasciation or swathing of certain parts, for this hath an affinity with Ligatures. For som use to enwrap the weak parts in wollen blankets, therby to strengthen them, and to cheriss their heat; namly, the Feet, the Legs, the Knees, and the adjacent parts of the Thighs. But you must be careful that the overstraightness of them hinder not their growth.

Others, inftead of these swatching bands use buttond Boots lined with woollen Cloth; these they do not make use of only for strength and heat, but also to correct the crookedness of the Boncs, and to erect the bending of the Joynts. Som ad little Shingles, or pieces of Whale-Bone, but there are three things worthy of observation in the making of these. 1. That they may somwhat crush the prominent and convex part of the Bone. 2. That they scarce touch the hollow, but rather that they defend it from compression. 3. That they be well fitted to the part, and do as little as possible hinder the motion of

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the Joynts, to this purpofe those Boots upon the outward part to the knee may be cut overthwart, or, acros In like manner if there be any need that the Shingles upon the knee be 'extend-

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ed to fustain and creet the bending therof, then it is neceffary that you fashion them with a double Joynt in the bending place, after this manner. The

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A B Two Iron rings. C D The Diameter of the Joynts of the Splents. • The Nails wher with the Rings are fastned.

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FG The two Splents.

Inftead of the Splents you may more commodioufly use thin plates of Iron, and the whol Inftrument may be made of Iron.

The two Axel trees or Diameters C D upon Shingles or which the Splents are bended F G are fastned with two rings or hoops. But the hoops themselves A BC are made of plates of Iron of an exquisit thinnels, that they may not be burthenfom, and withal they ought to be wel smoothed, and polisht that they hinder not the motion of the Splents. These rings must be of an equal Latitude

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tude, fuppole about two fingers a crofs, and they muft be fo fitted together, that on every fide they may be paralels; only let there be fo much diftance between them, that they may fitly receive the tops of the Splents. Moreover, Thofe hoops muft not only be coupled with a double Axel C and D, but alfo with five fmal Iron Nails. Laftly, The whol composition of the Inftrument muft be fo made, that it may be faft and fitly tied to the fide of the bended knee flicking out, and withal that it may ferve as well for the extension as the ordinary bending of it, but let it reftrain the deflexion of it to either fide, especially to the part flicking out. Which is the cauf why the Axels are fastened with a double Hoop, namely left the Joynts should be loof, and yield to the deflexion of the Knee.

In like manner the torfion and mishapen writhing of the Feet is also frequently corrected with Swathing Bands. If the Toes are outwardly difforted, they must every night be bound up, little balls of Cotton being put between the Heels and the Ankles. But if the Toes bend inwards, then you must bind the Ankles, and put a little Cotton between the great Toes.

Laftly, To ftraighten the trunk of the Body, or to keep it ftraight, they use to make Breastplates of Whalebone put into two woolenCloaths and Sewed together, which they so fit to the Bodies of the Children, that they may keep the Backbone upright, repress the fticking out of the Bones, and detend the crookedness of them from a further compression. But you must be careful that they be not troublessom to the Children that wear them, and therfore the best way is to fasten them to the Spine of the Back with a handsom string fitted to that use.

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CHAP. XXX.

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Of the Pharmacentical matter, and first of Such things as clense the first Passages.

***** His matter is of manifold and most noble * T* use, and fatisfieth very many Indications. For it comprehendeth al Medicaments, those only accepted which concern the Chyrurgion, which have a primary relation either to the causes of the Diseas, or the Diseas it felf, or the Symptoms.

It is divided into remedies Internal or External, and each of them into Simple and Compound. Again the Internal may be fubdivided into fuch as clens the first pass, as Medicines Preparatory. Into Electively evacuant, and fuch as are Specifically alterant and Evacuant, and finally into those that correct the Symptoms.

Among these the Internal obtain the precedency, and of those again such as wash away the impurities of the first passages, becaus these (as hath been already observed) are justly accounted an impediment in respect of the following remedies, and simply ought first to be removed. But in all the Titles (as far as the Nature of the thing will licens or warrant us) we will place the Simple before the Compound.

Moreover, these washing remedies comprehend these three kinds, namely, Clysters, Vomits, and Lenitive Purgations. The

The use of Clyfters, and some forms of them.

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The Injection of Clyfter-pipes, before we more exactly and earneftly attempt the Cure, is then chiefly prerequired, when the Belly is coffive, and the Excrements are hardned; or when fome windy humors torment the Guts, or fome vehement pain in the Bowels afflict the Patient. In which cafes they may not only be injected before any preparation, but alfo before a Vomit, yea or a Lenitive Purgation. Thefe are frequently compounded of benign and gentle Purgers, fomtimes alfo of fuch as have only a faculty to make the waies flippery, and to expel wind, but never of Cathartical ingredients that are violent they are to be injected warm or lukewarm, and after a long abitinence from meat. We fhall prefent fome forms.

Take Cows new-Milk, warmed, fouror five onnces; Anis Seeds beaten to Pouder ten grains; Courf Sugar, one ounce, one ounce and an balf, or two ounces; The Yolk of one Egg: mingle them and make a Clyfter; to there may be added balf an ounce of new Butter.

Take a sufficient quantity of an emollient Decostion. An Electuary lenitive half an ounce; Syrup of Roses Solutive, and Syrup of Violets, of each fix drachms; Oyl of Chamomel one ounce; mingle them, make your Clyster and let it be injected lukewarm.

Take theRoots of Marsh Mallows beaten together, half an ounce, or in lieu therof, the leaves or Flowers of Mallows half a handful; Flowers of Chamomel one pugil; Hemp Seeds two drachms: boyl them in a sufficient quantity of whey mingled with Beer: To four or five ounces of the Decostion ad of Diacassia, or Electuarium Passulatum half an ounce, Syrup of Roses Solutive, and

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and Kitchin Sugar, of each one ounce; new Butter fix drachms, you may if you see occasion ad the yolk of one Egg.

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Take Stone-Horfdung that is new, one ounce and an balf; The Seeds of Annis, Fennel, Mallows, beaten together, of each one drachm and an balf; Flowers of Chamomel one pugil. Boyl them in a fufficient quantity of posset drink: In four or five ounces of the Decotion, dissolve ten drachms of Syrup of Violets, common Sugar, and Oyl of Roses, of each balf an ounce: Mingle them and make your Clyster.

The use of vomiting remedies, and some examples of them.

Emedical Remedies or Vomits, do chiefly perform three things. First they evacuate crude or corrupt humors and all manner of impurities contained in the Stomach, and that by a shorter and more expedite way, than if they were conveyed through the involutions and labyrinths of the Guts. Secondly, By an agitation and commotion raifed in all the parts, especially the Bowels, they loofen the grofs and vifcous humors adhering unto them, or impacted in them, and frequently expel them, especially those which are collected in the Stomach and Guts; in which respect they are profitable against torments of the Chollick and very conducible to unlock Obstructions. Thirdly, They most effectually irritate the expulsive faculty of all the parts of the Body, and especially of the Bowels, and by this means many times upon a fingle application they compel forth the hidden and unappearing caules and fomentations of Difeafes, and especially of intermitting Feavers. For by the very straining to vomit, the Guts are also instimulated to caft

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caft out by fiege. The Liver powreth away the Choller by the Biliary Pore; the fweet-Bread voideth his peculiar excrement by the new Veffel into the Guts ; the Spleen also perhaps unburdens in a plentiful manner his excrement into the Stomach by Veffels not yet throughly known : The Kidneys exern through the Wreters, the Lungs by a strong Cough eject their Flegm through the Windpipe : The Brain emptieth it felf of falt, waterish Rhewms, and matter by the Palate, the Nostrils and the Eyes. Finally the whol Body for the most part is rendred more prone to a Diaphoresis either by a manifest sweating, or else by an occult and insensible Transpiration. In the mean time it must be noted that not all gentle Vomits, nor indeed the more vehement, if they be given in too fmal a dofe wil prefently and fully perform all these things, yet in their operations they effect more or lefs according to the ftrength or quantity of the Medicine, and indeed if the stronger be adminiftred in a full dose they effectually attain to the three marks propounded.

It is obvious, by what hath been faid, to the confideration of any Reader, that ftrong Vomits prefcribed in a full quantity are not competible to Children affected with this Difeaf, neither can their tender ftrength overcome and fubdue fo great tumults in the Body, and fuch an Univerfal evacuation fo fuddenly wrought, Wherfore this kind of remedy ought not to be prefcribed to Children without diligent precaution and circumfpection, and both the ftrength, quantity, and efficacy of the Medicine are duly to be prepondred. To this end therfore we fhall fet down fome Cautious in favor of unexperienced Practicers.

First, A Vomit is not to be provoked in this Diseas, unless the humors tend upwards of their own accord, but then

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then indeed they may be expelled by vomiting remedies without difficulty.

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Secondly, Not unleis Children are naturally or cuftomarily apt to vomit, and do eafily endure it.

Thirdly, In Bloud-spitting, the Ptifick and Consumption, in any flowing of Bloud at the Nose, or any internal opening of the Veins, and the like cases, abstinence must he enjoyned from this remedy.

Fourthly, Vehement vomits exhibited in a larger dole are here forbidden. For the fear is just and prudent that they may depopulate the Natural Spirits, and further confume the very folid parts which before were over-much extenuated.

It is neceflary therfore that the Vomits here prescribed, be either in their own nature gentle, or corrected if they be vehement and administred in a lessened dofe.

You wil say, If they be of a mild and lenitive faculty, or exhibited in a diminute quantity, they cannot compel the humors with any efficacy.

To this we answer, Indeed where Nature contributeth little or no affistance, it cannot be denied ; but in fuch cases we totally prohibit the administration of vomiting remedies; but presupposing both a fitness of the Body and Humors to this evacuation (as is required in the first and second Caution) even gentle vomits may expel fuch humors as are feated in the first passages. The thing must be faid of the strong being prudently corre-Etcd and sparingly applied. For by reason of the correction and diminute quantity they do not much shake and discompose the Body, or provoke Nature; and again, through the proclivity of the Stomach and Humors they are sufficient to reward this Scope with a laudable success. We will now subjoyn some sew Ex-Take amples.

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Take the tops of Groundsel half an handful, Raisons one ounce; boyl them in a pound of Ale to the confumption of one half. To three ounces of Colature, ad half an ounce of Syr. Acetof. fimpl. Mingle them & drink them luke-warm.

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Take the Infusion of Crocus-metallorum in Spanish Wine, made in a cold place and well purified, by subsidence one dram, a dram and an half, or two drams (according to the age and strength of the sick) half a dram of Syr. Acetos. simp. Posset-drink an ounce and an half. Cinamon Water ten drops: or initead therof if there be any fear of Convulsions, one scruple of Aq. Antepilept. Lang. Mingle them and drink it warm.

Take the fuyce of the Leaves of Asarabacca balf a dram, two scruples or a dram. Syrup. Acetof. simp. two drams. Mingle them with a sufficient quantity of Posset-drink.

Take Salt of Vitriol from five to ten grains, Give it in Posset drink.

Lenitive Catharticks.

These Evacuant Medicines produce their Effects without tumult, and therfore they requir not so great circumspection as Vomiting Compositions, or such as are electively Purgant. Yet three things must be confidered in the Use of them. 1. That they do not naufiat the Ventricle with such an ingrateful tast and savor as may render an abhorrence from all future Medicaments. 2. That they oppress not the Stomach by an immoderat quantity. 3. That the potion drunk be not presently vomited up. To prevent this last danger it will be a good way presently to be dew and moissen the Mouth

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Mouth with some pleasant and agreable Liquor, or with candid Cherries, or preferv'd Barberries; or to temper the juyce of Orenges, or the like.

These Lenitives may be divided into Simple & Compound: and these again into such as are fold in the Shops, and such as are newly made and accomodated to the present scope of the Physitian.

There are found very few Simples that of themfelvs wil fatisfie this fcope ; as Manna, Caffia fiftula, Aloe foccatrina, Tamarinds, Polypodium of the Oak. But very ineffectually, unlefs they be compounded with other Purgative Ingredients (more follow) as fujubes, Sebeftens, fweet Prunes and Damafcens, Figs, Dates, the Pap or Pulp of rofted Apples, the Flowers of Mallows, Violets, Pellatory of the wall, Mercury, the Roots of Marfhmallous, Liquoris, the four greater cold Seeds, the Seeds of Mallows, fweet Almonds, rare Egs, Fatty fubftances, Butter, Oyl of Olives, Oyl of Almonds, Whey, and the like. These although of themfelves they are of fmal efficacy, yet by the commixture of other Catharticks they require a gentle purgative quality, not to be contemned.

The Lenitive compound Catharticks which are fold in Shops, are these: Cassa extracted with, or without Senna, Diacassa, Electuarium Lenitivum, Diaprunum lenitivum, Electuarium passulatum, A common Decoction for a Medicine, A Decoction of Flowers & Fruits, Syrup and Honey of Violets, Syrup of Roses solutive, Honey of Mercury, Honey of Raisons, Conserve of damask Roses, Of the Flowers of Mallows, of Violets. To these may be subjoyned fom extempory forms. As

Take of the best Calabrian Manna fix drams, Cremor of Tartar seven grains, Posset-Ale in which a few Aniseeds have been boyled an onuce and an half. Mingle and give them in the morning. Take

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Take of Polypodium of the Oak two ounces, white Tartar prepared two drams, (weet Apples twelve handfuls, Raisons of the Sun stoned one ounce : Boyl them in a sufficient quantity of Water to a pound. In the Decostion infuse all night long Choice Senna an ounce and an half, Rhubarb two drams, Pulp of Caffia new drawn half an ounce, Tamarinds an ounce, Liquoris, the Seeds of Annis and Coriander of each a dram and an half: The next morning strain it through a linnen Cloth, and to eight ounces of the Decostion ad White Sugar fix ounces; Boyl it a little; and when you have don fo, ad to it Manna diffolved in Syrup of Rofes, of each two ounces; Syrup of Violets one ounce: Make of them a Lenitive Syrup. Let the diseased Child take an ounce either in Succory Water, or Water of Pellitory of the wall, with a dram of the Juyce of Lemmons.

Take of Lenitive Electuary one dram and an half, or two drams; Syrup of Roses solutive two drams and an half; Cremor of Tartar ten grains; Poffet-ale a sufficient quantity. Mingle and administer them early in the morning.

Take of Aloes washt, or Aromatical Pils feven grains; Make two Pills with Syrup af Roses folutive, put them into two Candid Cherries the skius being pulled off, and let them be swallowed whol left the tast be offensive, about sleeping time in the evening. In the morning give to drink after them, one ounce of Syrup of Roses folutive in Posset Ale. Or

Take of Syrup of Roses folutive fix drams; Violets half an ounce; Juyce of Lemons one dram; Electuarium Passulatum one dram: Mingle them with Succory or Pellitory Water, and give them in the morning fasting. Thus much of those Medicines as clear the first passages.

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CHAP. XXXI.

Remedies Preparatory, and their Use.

The normality relate to the preparatito the Humors, partly to the waies thorow which they are to be expelled, and partto the paffages themfelvs, wherin they are contained. Now it must be known, That the Evacuation which is perfected by Vomits, doth least of any pre-requir any preparation; but that which is accomplifhed by *Catharticks* or Medicins Purging, doth most of all exact it.

First, The Humors in general to be prepared are either Flegmatick, namly cold, which must be qualified and tempered with hot, thick, and must be attenuated; vifcous, and must be cut and opened; or Cholerick, namly sharp, bitter, burning, corrosive, which are to be mitigated with lenifying and alwaging Medicins; or Melancholly, namly earthy, feculent, tartarous, which by a benignity of application must be rendred fluxible; or lastly ferous and waterish, which must be disposed and as it were manuducted either to the Urinary passges, as by pissing, or to the Belly as by siege, or to the parts near the Skin that they may with the more facility evaporate by Sweating.

Secondly, The waies, thorow which the Evacuation must be effected, ought also to be made fit and prepared, and

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and not only the common, but alfo the special, by which the peccant matter in particular is conveyed to those common Channels. For there is one preparation of the Vessels of the Kidnies (which is chiefly expedited by Medicins of a flippery and loofning faculty) another of the Vessels of the Liver, which is don by opening, clensing, and somewhat astringent Medicaments : A third of the Vessels of the Lungs, which is most success fully wrought by Lenient and Maturant Remedies, fomtimes perhaps according to the nature of the matter Medicins incident or atenuant being administred, or on the contrary, Administrations making thick, and such as have a vertue to arrest and avert the flux.

Thirdly, Those parts wherein the vicious humors principally flow or are lodged, require the admixture of Medicaments peculiarly apropriated unto them. And as this or that part is more or less affected, fomtimes choice must be made of *Cephalicals*, fomtimes *Hepati*cals, and iomtimes *Pectoral* Preparations.

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Moreover, (that we may comprehend together moft if not all of the qualities of Preparatory Remedies required in this Affect) we fay, That these Remedies prefcribed by Art ought to be moderatly hot (unels there be a Feaver prefent) also attenuant, incident and opening ; in like manner, that by a peculiar right hey must have respect to the Liver, the Lungs and the Head, which parts for the most part are commonly in his Affect oppressed with a plenitude of humors: Again, That there are some things specifically apropriaed to this Affect : and if such things are not in Readinels which are regessed in the number of things prepaatory, and dedicated to the Difeas, than at least other becificals ought to be mingled with the Preparatory dedicines.

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These things being premised, we judged it expedient to set down such Simple and Compound Medicines as are usually fold in the Shops, and also some examples of decompounded Preparatory Remedies. Yet we forbid the expectation of all Simples, or perhaps of any one, that should comprehend all the qualities, which even now we attributed to those exquisite and apropriate Remedies ; for then there would be no need of any Composition, and we shall reckon up such and so many that a prudent Physician may felect and contemper them among themselves, which being discrectly intermingled they may be correspondent to all the fore recited qualitics.

The Simples and Compounds prepared in the Shops in readinels are thefe. All the Capillary Herbs, effectially Tricumanes, Rhue of the Wall. Spica Roots of Ofmond voyal; the Buds of the male Fernbrake newly fprung up, Polipodium of the wall; Hartftongue, Liverwort, Ceterach, Agrimony, Doddar, Scabious, Betomy; the Leaves and Bark of Tamarisk, the Bark of the Root of the Caper tree; the Roots of Succory, Endive, Graß, Sparagus, Myrobalans; Liquoris, Raifons, Prunes, Damfens; the Seeds of Annis, fweet Fennel, Coviander, Caraway, Dill; Syrup of Maidenbair, and Betony, Simple and Compound, Syrupus Bizantinus, Syrup of Succory, Eupatory the five Roots, Stæchadis, and Horftongue.

Out of these according to present Emergencies divers others may be Decompounded. As take the little Buds or Gems of the Roots of the male Fernbrake five in number; boyl them in half a pound of Milk to three ounes; let him drink the Decostion in a morning upon an empty Stomach. This is most agreable to yong Children that are used to Milk. Or, Take

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Take of the Buds of male Fernbrake newly budded one of the Earth, one handful; male Betony, Hartftongue, Liverwort, of each half an handful; Flowers of Tamavis one pugil; Raifons one ounce and an half; One Chicken the Guts pulled out, and with a fufficient quantity of Gatmeal, make your Broath according to art. Let the Child take three or four ounces in the morning, and at four of the Clock in the afternoon, adding (if you pleaf) ten grains of the Cremor of Tartar. Or

Take Maudenhair, Liverwort, Agrimony, Doddor, of each half a handful; the Roots of male Fernbrake, Graß, Sparagus, of each half an ounce; Flowers of Tamaris, one pugil; Raifons one ounce; White Tartar prepared one dram; Liquors half a dram; Mace one fcruple: Boyl them in two pints of Fountain wster. To one pound of the Decostion ad 3 ounces of white or Rheniff Wine; Syrup ef Hartftongue one ounce and an half: Mingle them and make your Decostion, wherof let the Child take a draught every morning, and at four of the Clock in the afternoon. This is most prevalent and effetual against pertinacious obstructions in the Mesentery, Liver, & Or

Take of Coltsfoot, Maiden-hair, Hartstongue, Liverwort, of each half an handful; the Roots of fiweet Chervil and Sparagus, of each half an ounce; Spanish Liquorus two drams; Mace a scruple; Raisins of the Sun stoned, an ounce; Jujubes by number six, Sebestens eight, two Figs cut in peices: boyl them in a sufficient quantity of Barly-water, and to a pound of the DecoStion, ad Syrup of Maiden-bair, an ounce and an half: Mingle them together; and this is a very good Drink for such as are troubled with an obstruction in the Lungs.

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Take of fweet Wort two pound; Liver-wort, Maiden-bair, Hartstongue, Scabious, Coltsfoot, Featherfew, of each an handful; blue Figs cut in pieces, Raifins of the Sun, of each half a pound; Liquoris, Annifeeds, of each two drams: boyl them over a gentle fire nine hours, strain it, and keep it for your use. It's good for that the former was.

Take Salfaperilla cut and well beaten three ounces; the Roots of China, Hartfhorn fbavings, Ivery, of each one ounce; the Leaves of male Betony, Liverwort, Scabious, of each three handfuls; the Buds of the Root called Royal Ofmond, and Fernbrake, of each two ounces: Boyl them in four gallons and a pottle of new Ale four or five hours over a gentle fire: Then after fom hours refpit ftrain it thorow an Hair-Sieve: afterwards put in of the *fuyces of Scurvigraß* and Brook-lime, of each half a pound; a fufficient quantity of Barm or Yeaft: Let it work according to the ufual manner, put it into a little veffel and drawn out for the ordinary drink. Thus is most conducible, where there is any fuspition of the Scurvy or Venerious Pox, being complicated with the Rachites.

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CHAP. XXXII.

Remedies Electively evacuant.

The passage opened to facilitate the evacuation, the next thing is, To confider what remedies wil electively expel the peccant humors in particular. Now these Medicines do partly con. cern the humors, and partly the parts wherein they are lodged; but in each of them a du regard must be had to the Spirits.

The violent must be either totally prohibited, or elfe exhibited after a du correction or a circumspect diminution of the dose; and for yonger Children, and such as are weak, they must be the less in quantity, and the more gentle in quality; for great and lusty Children you may prepare stronger remedies and in a larger dose (provided that hey exceed not the strength of the Child. In both causes it is fafer to favor and go less then the strength wil bear, than to transcend it in the least degree: and in this affect it is altogether better to proceed by an *Epichrasis*, then together and at once to attempt the ful evacuation of the peccant humors.

Moreover the predominant humors in the Body require proper and peculiar remedies ; as Choler, Medicines purging Choler: Flegm, Medicines purging flegm: Melancholy Medicines purging Melancholy : and waterifh humors fuch as purge water. Again

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Again, If the Liver be opprefied with humors more than the other parts, fuch *Catharticks* muft be cholen as peculiarly belong to the Liver. In like manner the Lungs being vehemently infefted, or the Brain, and the other parts, fuch remedies muft be cholen as are appropriated to thole parts. But if there be not a ready lupply of purging Simples peculiarly dedicated to thole parts, that defect muft be made good by a prudent commixture of fuch ingredients as are familiar to thole parts.

Laftly, You must endcavor (as much as possibly you can) to make choice of fuch purgers as are directly opposite to the Effence of the Diseas. In this respect we commend Rhubarb above al other simples. For it is a Medicament moderatly hot and dry, very familiar to the inherent Spirits of all the parts, it gently diffelleth the Aupefaction of the parts, and Arengthneth the softneß or loofneß of the parts formahat correcteth the internal flipperines, summons the Puls to the Arteries, and encreaseth the heat of the outward parts, and finally it cherifheth the vigor and activity of the inner parts, and especially of those which are subservient to nourish ment. Ad in a word, That it exceeding rarely (provided that you give it in a just dole) causeth superpurgation, for it is a Medicament safe for all ages, and every Complexion.

These things being premised, we shal propound fom simple purgative Medicines, and som examples of the Compound. For nothing hindreth, but that many of the prerecited lenitives, may be commodiously referred hither, though in a different respect. For there they are considered as quickners of the lenitives which of themselvs are somewhat dul : But here rather as they qualify and attemper the violence of the strong.

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Simple and Compound purging Medicines which are fold in the flops.

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Manna, Calfia fiftula", Tamarinds, all the forts of Myrobalans, Rhubarb, Aloes, Syr. of Rofes folut.fyr. of Cichory with a double quantity of Rhubarb, fyrup.Auguftanus, Scammony, Agarick, the feeds of baftard Saffron, Mechoacan, Jalap, Turbith, fweet Mercury, fyrup of Rofes folutive with Agarick, Epythymum, Polypody of the oak, Senna, Syrup Magistralis against Melancholy, fyr. of Apples of King Sapor, Diabalzemer, Electar lenitivum de prunis. folut.Electar passulat Diacatholicon, Confectio Hamech, Benedicta Lexativa.

Som Examples of extemporary Compounds.

Take fyrrup Augustan one ounce, fyrrup of Roses solutive two drams. Succhory water half an ounce to dissolv the fyrrups, make a potion to be administred in the morning upon an empty stomach.

Take the best Rhubarb beaten to pouder eighteen grains fyrrup of Succhory with a double quantity of Rhubarb fix drams, fyr.rof. folutive two drams, water of the leavs of Fernbrake fix drams, mingle them for a potion, this agreeth best with Cholerick Constitutions, and fuch whose Livers are distempered.

Take the leaves of Senna, Polypody of the Oak, Epithymum of each a dram, Rhubarb one scruple, Christal of Tartar, Fennel seeds of each a scrupel, make an infusion in a sufficient-quantity of fumitory water, to the strayned infusion, ad syrrup Magistralis six drams, Cinnamon sewater seven drops; els Langius his Antipeleptical water half a scruple: mingle them for a potion accomodated to Melancholy Constitutions.

Take the leave of Senna two drams, the pulp of Tama-Z 4 rinds

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rinds fix drams, the feeds of Aniß, Liquorice of each half a dram, cremor of Tartar half a scruple, make an infusion in a sufficient quantity of fountain water for the space of a night, with three ounces of the strained infusion make an emulsion according to art with sweet Almonds blan ched, half an ounce. The four greater cold seeds of each two scruples, for two doses, adding to each dose syrrup of succhory with a fourfold quantity of Rhubarb, and the best Manna of each three drams. This qualifieth and evacuateth strand adult humors.

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Take lenitive electuary three drams, Rhubarb a foruple, Cremor Tartar and Anni-feeds of each balf a foruple, the flower of Burrage and Rosemary of each balf a Pugil, Fumatory water as much as is sufficient: after you have infused them, certain hours strain it through a thick Cloth. And to an ounce and balf of the infusion ad syrup of Apples of King Sapor, balf an ounce: mix them together for a potion.

Take Elder flowers a pugil, Rhubarb two scruples, Jalap, Mechoacan of each a scruple, Cremor Tartar balf a Scruple, Nutmegs fifteen grains, first infuse them, then boyl them gently in the water of broom flowers, & Rhennish wine, of each so much as is sufficient, strain it. And to an ounce and an half of the decostion ad syrup of Roses solutive half an ounce or six drams: mix them together and make of them a potion which will be very agreable for such Bodies as are troubled with flegmatick or dropfical.humors, or a Cachexia.

Take of the leave of senna a dram and an half, Rhubarb two scruples, Agrick trochiscated one scruple, Tamarinds two drams, Anni-seeds, Cremor Tartar, of each a scruple, Rosemary flowers a pugil, make an infusion in a sufficient quantity of sountain water, and after a very gentle boyling to an ounce or an half of the decostion, ad symp

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fyrup of Roses folutive with Agrick, Magisterial syrup against Melancholy, of each three drams mix them together for a potion to clense the Body of mixt bumors.

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Take the leaves of fenna one dram and an half, or two drams, Agarick trochife, half a dram, Fennel feeds half a dram, flowrs of Chamomel ten in number. Boil them in a fufficient quantity of fount ain water, and to ten drams or an ounce and an half of the decostion, ad half an ounce or fix drams of fyrrup of Rofes folutive with Agarick, Manna three drams, mingle them for a Potion dedicated to evacuate thick and Flegmatick Humors.

Take sweet Mercury fifteen grains, conferv of violets one dram, powder of Gum Dragon one grain. Mingle them, and make them into a Bolus, with syrups of violets to be given in the morning drinking after it an ounce of syrup of Roses solutive, disolving a draught of posset drink. This is most proper for such Children as are troubled as well with the Rachites as the worms, and on the contrary; also for such as bave the French Pox, complicate with the Rachites : also to such as are troubled with a Struma.

Take sweet Mercury twelve grains, Jalap eleven grains, Nutmegs half a grain, the pulp of Raisins a dram. Mingle them, and with syrup of Violets make a Bolus to be taken in the morning. Instead of Jalap you may make use of Diagrydium, to three or four grains: This is proper for Children that are afflicted with Strumatical Affects, and such as are suspected to have the French Pox, and such as are difficultly purged, and are averse from Remedies of an ungrateful tast.

Take of sweet Mercury a dram, gummy fallop half a scruple, white sugar dissolved in Betony water three drams or half an ounce, make them into Lozenges according

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ding to art of a dram or two scruples and an half weight of which let the diseased take one at a time.

Take the best Rhubarb one dram and an balf, Raisins of of the Sun, the stones being pickt out, one bandful, a pint of ordinary Ale, infuse them for twelve bours, strain it and give it to Children that are greedy of drink in the night seafon.

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Take Aloes Juccotrine seven grains, Rhub arb in pouder eleven grains, with syrup of Roses solutive, so much as is sufficient to make it into pibbles which must be given in preserved Cherries, the stones being taken away, or else you may guild them for the more easy swallowing.

CHAP. XXXIII.

Specifical alterant Medicines.

**** He causes of the Diseaf being now prepared * T * and in part evacuated, or at least to subdued, that for the present they cannot retard the cure, you mult proceed to these Medicines *pecifically alter ant*, w^{ch} as it were fly at the very throat of the Diseaf, and in regard wherof the premised Medicines both preparatory and evacuant took place.

Now these specificals may be defined to be, Remedies diametrically contrary to the Nature of the Diseas, and such as directly impugn it.

These are either Simple or Compound, the Simple which hitherto we have had knowledg of, are these that follow;

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follow : the root of Ofmund the Royal, or rather the (pike of the root, the middle being thrown away, the root of the male Eernbrake, or rather, the little buds before their peeping forth out of the earth ; the roots of Graß, Succhory, Alparagus, Madder, Eringo, all the Maiden bairs, Ceterach, Harts tongue, Liverwort, Betony, the flo wers and leave of dead Nettles, Bor age, fage Rolemary, Tamarisk, Southernwood, Pontik Wormwood, The greater Sulendine, Saffron, Turmerick, the roots of Sarfaperilla, Salfaphras, China, the three forts of Sanders, the wood of Guiacum, and its Bark, flowr of brimstone, steel prepared, Crocus Martis, Salt of steel, wine steelified, (yrup of steel, white and Rhennish wine Sperma Ceti, Musk, Ambergreece, Castoreum, Earthworms, the Livers of Frogs and yong Ravens, Woodlice, washt in white Wine, bak'd inan Oyen, and beaten to powder, and fuch like things.

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But if any demand, After what manner, or by what action these Medicaments do especially over-rule the Essence of this affect?

We anfwer, That perhaps it is not neceffary, that we prefently fly to occult qualities, which for the most part is but the Sanctuary and refuge of ignorance : but that the primary and fecondary parts of the Effence of this Difeaf above deferibed ought to be reduced to Memory : for by making a comparison between those parts, and these Medicaments, we shal plainly difeern an obfcure contrariety and repugnance between them. For this Difeaf confisteth in a cold and moift diffemper inherent in the Spirits together with want and aftonishment of the Spirit and weakness of the parts afflicted : on the contrary these remedies heat and dry, cherish the Natural Spirits, diffipate that numbness which is in them and ftrengthen the parts.

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Moreover, In regard that these remedies with their heat and driness obtain withal a manifest friability and thinnels of parts, it comes to pals, that they cut through all viscous matter, they attenuate all gross and thick humors, and procure a certain equality of all the juyces that have their circulation in the Sanguinary Mals, and an even distribution (confideration being had of the distance from the fountain of heat) both of heat and Blood. Herupon the external parts which before were Ican enjoy a more liberal heat and nourishment, and the Parenchimata of the Bowels which were irregularly encreafed, are delivered from thick and vifcous alimentary juyces, and therupon are formwhat lefned : by this means that Alogotrophy or irrational Nourishment of the parts, from whence so great a feries of organical faults refulteth, is corrected. Finally, Thefe remedies do also strengthen and cherish the finewy parts, and likewife the extream weakness of the Bone of the Back.

You will fay, That all the Simples above recited by us, do not fully perform all these things. For the several kinds of Sanders, though they may by their drinels, friability and thinnels of parts ftrongly impugn this Difeal, yet by their coldness they seem rather to come neer to the parts of the Difeaf; we fay therfore that Simples of this Nature ought not to be given alone, but being commixt with fome other, which may prevalently correct the noxious quality; in like manner lome Simples extreamly hor, as Saffron, Caftoreum, Flowr of Brimstone, Oc. are very repugnant to this Difeal, vet you must refrain the administration of them unless they be duly attempered. Moreover Sar Japavilla, Sallaphras, Osmund the royal, the kinds of Fernbrake, all the Maiden-hairs, Hartstongue, Ceterach, and the like, their

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their heat and driness being conjoyned with a notable friability and thinness of the parts they contribute very much to the equal distribution of the Blood, as also to subdue many other parts of the Diseas. But they scarce lend a fufficient strength to the finewy and fibrous parts ; wherfore they feem to crave an admixture of Cephalical Remedies. Again, Lignum Vita, by its heat, drinels and friability, and by its Ballamical and Rolinish substance, doth very much strengthen the Tone of the parts, and is contrariant to some other parts of the Difeal; yet becaus it helps very little the contemperation of the Juyces contained in the Sanguinary Mais, but on the contrary is rather an hindrance therunto, it ought not without great caution to be prefcribed, and that in a small quantity and well corrected. Laftly, Among the Simples here recited, some are received to ftrengthen all the Spirits rather than to fubdue the Effence of the Diseal, as Sage, Musk, Ambergreef, and the like. which come not into use but when they are mingled with other effectual and more apropriate ingredients.

If any shall further demand, Which among all these propounded Simples are to be valued as the most noble and effectual; we comprehend our Answer in these Rules.

First, They are the most noble Medicines, which joyntly make the strongest opposition against most parts of the Essence of the Difeas.

Secondly, Those *Caterus paribus*, are to be effeemed the more noble, w^{ch} directly affront the Effence of the Difeal, especially if at the same time they advance the equal distribution of the Blood and Vital Spirit, wherby so many organical faults are corrected.

Thirdly, Such things as oppose the Diseas most eminently by an effential contrariety, provided they be not

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not as well too ftrong for Nature as the Difeaf. Fourthly, Those which are both repugnant to the Difeaf, and yet withal, grateful to Nature, in no wife offering any violence to her.

Fifthly, Those wch are most grateful & pleasing to the fick Child, & fuch as administred trouble not its Pallate. These things being premised we shall now subjoyn

lome examples of compound Medicines.

Decoctions, and Physical Drinks.

Take the Spikes of the Roots of Ofmund the royal, fix in number ; Pauls Betony, Hartstongue, Ceterach, Liverwort, Maidenhair, of each one handful; Sage, and Rofemary Flowers, of each half a handful : smal Raifons three ounces; Spanish Liquoris half an ounce; Mace two scruples; Boyl them in fix pound of Fountain Water; take three pound of the Decoction and ad unto it three ounces of the Syrup of Maidenhair, mingle them and make your Apozem. Let the Child take a draught of it every morning, another at four a clock in the afternoon, and a third in the night if he then call for Drink; yea if it pleaf him, let him take it for his ordinary Drink. This is most proper for those who are fadly afflicted with the Rachites, complicated with a cough and an obstruction of the Lungues.

Take the Leaves of Royal Ofmond, Hartftongue, Liverwort, Ceterach, the Flowers of Tamerisk, the Roots of the Male Fernbrake, of each a handful ; Raifons two ounces; white and red Sanders, Saffafras Wood, of each two drachms; Coriander Seeds one dtachm ; Mace one scruple ; Sage Leaves, half a handful; boyl them in a sufficient quantity of Fountain Water according to art, to three pound; Let the Decoction be fweetned with Sugar or Honey, for ordinary Drink. This is beft for fuch whole Liver is most afflicted.

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Take Safaperilla cut and beaten, three ounces ; the Roots of China cut into little pieces, two ounces : Infule and boyl them according to art, in feven pound of fountain water, to four and a half : then ad two drams of Saffafras roots, the roots of Ofmond royal, the leaves of Hartftongue, Ceterach, Maidenhair, Archangel, of each half an handful; Spanish Liquoris two drams; Mace a dram : boyl them to three pound. To the Decoction ad Honey or Sugar three ounces. Mingle them for ordinary drink. This is most conducible where there is suspition of the French Pox, as also in Strumatical Affects.

Take the Flowers of Tamaris one handful; the male Pauls Betony half an handful: bruif them gently, and infuse them in two pound of common Beer cold, in a stone or glaß Flaggon, well stopt with Cork for the ordinary drink.

Take Sarsaperilla eight ounces; China two ounces; Saffafras half an ounce; Ivory an ounce; Ofmond royal, Falus Betony, Hartstongue, Ceterach, Maidenhair, Liverwort, tops of dead Nettles, of each two handfuls: cut them and bruif according to art, and boyl them in four gallons of new Ale till one be confumed; then when you have taken it from the fire, ad another gallon of the same Ale to it, and when you have added it, ftir it up and down with a flick, and when you have done fo, strain it, and when you have strained it, put the Ingredients in a Boulting-bag, and put a piece of Iron into them, and ad a bit of Leaven to it, and hang it into the Ale with a string, and let the Child drink it for its ordinary Drink; fo foon as it hath drunk half of it, draw out the reft, and ftop it close in ftone Bottles for the Childs use.

Take wine of Stull half an ounce; Syrup of Succory with

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with Rhubarb two drams : let the fick drink of it every morning for five or feven daies or longer, unlefs fome loofnefs of the Bowels or debility of the Stomach do advife a prohibition : in which cafe, inftead of Syrup of Succory with Rhubarb, take Syrup of dried Rofes.

Broaths and Panadaes.

Take Hartstongne and Cetrach, Liverwort, Maidenbair, Sage, of each half an handful; the Bark of Tamaris, red Sanders, of each two drams: Put them into the Belly of a Cock-Chicken or Hen, or an old Cock. Sew up the Belly, and boyl it with two ounces of Malaga Raisins in a sufficient quantity of Fountain water, adding also a sufficient quantity of pure Oatmeal flower: Make your Broath, and let it be soundly boyled.

Take the roots of China cut into *fmal bits*, two ounces; white and medulous Sarfaperilla fliced and well beaten, three ounces: Infuse them for a night in ten pound of *fountain water*: In the morning after a gentle bubling, strain it, and to the Decoction ad Hartstongue and Pauls Betony, of each an handful; Mace half a dram; Currance an ounce; and with Mutton, Veal, or a Capon, adding Oatmeal: make your Broath according to art.

But if thinner Eroths be more defired, you may boyl a cruft of Bread inftead of the Oatmeal; and if you would have it thicker, you may mingle with it the yolks of Egs and grated Bread: Moreover, to help a weak concoction, you may fomtimes ad a few spoonfuls of Wine.

Panadaes also may be made of the same Broth strained, and boyled again with grated Bread, adding at length

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length a little Butter and Sugar. The fame likewife may be made of the Decoctions even now prefcribed, unless peradventure they contain some bitter and unpleafing mixture. Morrover, the Panadaes and ordinary Broths may be altered with these enfuing Pouders, and by confequence apropriated to the cure of this Affect ; if the Child defire Milk most, let them be made in Mille; if the Child defire it thick, you may make it thick either with Flower, or Oatmeal; and if you mix a little Saffron with it, it will be the better. But if any thing in the Pouders do naufiate and offend the taft, let them be omitted, and substitute fom other things that may be more acceptable to the Palat.

Pouders and Electuaries.

Take the Roots, but rather the Buds of the male Fernbrake (carce forong out of the Earth, and dried in a shady place; the pike of Royal Ofmond, of each two drams; Mace, Annifeeds, of each half a fcruple ; Saffron half a grain : make a Pouder. The dole from half a scruple to a scruple, in Milk, or Posset drink, some Decoction, Broth or Panadaes.

Take the medulous part of the Root of Sarfaperilla two drams; the Roots of China one dram; the Root of Saffafras one scruple ; the feeds of Caraway and Coriander of each half a scruple; the Roots of the male Fernbrake, O (mond royal, of each two scruples : Mingle them and make a Pouder to be used as the former.

Take Wood-lice, or as some Countries cal them, Sows washed, first in water, and then in white-wine, afterwards calcined in a Crucible; Bread dried as much as you pleaf: make them into a Pouder. The dole is from half a fcruple to a fcruple, either in Broth, or any thing ell :

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Take of Flower of Brimstone two drams; Diarrhodon Abbatis, Diatrion fantalon, of each half a scruple; Saffron half a grain; refined Sugar three ounces: All of them being made into very fine Pouder, make them into a Past with a sufficient quantity of Rose water: Dry them, and when you pleas you may beat them into Pouder, and give a dram of them at a time.

Take Conferv of Red Rofes one ounce and an half; Conferv of the flowers of Borage, Archangel, Sage, Rofemary, of each half an ounce; Steel prepared one dram; Cinnamon, Spanish Liquoris, of each half a dram: Saffron half a scruple; Red Sanders a scruple: beat such things (as are reducible) to pouder; make an Electuary according to art, with fyrup of Succory with Rhubarb a sufficient quantity. Let the Sick take half a dram, two scruples or a dram every morning, either by it felf, or in a spoonful of Posset. Ale, or som appropristed Syrup, or else in Wine.

Take Conferv of Archangel flowers one ounce; the flowers of Sage, Clove-Gilliflowers, Rosemary-flowers, Myrobalans candied in India, Citron Pills candied, of each half an ounce; red Sanders, Cinnamon, Spanish Liquoris, of each half a dram; Salt of Steel, or elf Saffron, half a scruple; with a sufficient quantity of syrup of wormwood; make your Electuary. The dose and manner of using it is the same with the former.

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CHAP. XXXIV.

Remedies that correct the Symptoms.

Ome Symptoms supervening upon this Affect, do somtimes anticipate the legitamatMethod of Cure, and require a particular manner of proceeding. Of this sort are the flux of the Belly, the Lask, wherwith somwhat of a Lientery is frequently joyned; profuse Sweats, laborious and painful breeding Teeth, and the Toothach.

The flux of the Belly doth very much follow this Affect ; which if it perfevere for any long time, it is either very violent, and eafily watereth the Spirits, confumeth the folid parts, manifestly puts on the nature of a caul, and as a caus indicates its own correction. A Bloody-flux rarely hapneth with this Difeaf. But a Lask with exulcerations in the Guts, or complicated with a Lientery is very uleful. For in respect of the debility to the parts subservient to digestion, a Lask, or a Lyentery may eafily supervene, but not a Bloudy-flux. Yet there is a frequent concurrence of other caules ; as of the indigested nourishment vicious either in quantity or quality; som feaver, watchings, worms, painful breeding Tceth,&c. al which things do likewife early occasion a Lask, or Lyentery rather than a Blondy-flux. As for the Cure, it is partly perfected by Purgations, partly by aftringent Remedies ; partly by fuch as open, and partly by fuch as ftrengthen the parts.

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These Purgers are most proper which leave behind an evident binding after evacuation; as Rhubarb, Senna, Tamarinds, Myrobalans, & c. out of which for the most part we frame a Bolus or Potions, becaus they are most easily swallowed under those forms. As,

Take Conferv of Red Rofes half an ounce; Rhubarb in Pouder twelve grains; with a sufficient quantity of syrup of Coral make a Bolus to be given in the morning.

Take of the Pulp of Tamarinds one dram; Rhubarb in Pouder leven grains; Sugar of Roses half a dram, with a sufficient quantity of syrup of Quinces, make your Bolus. Instead of this Syrup you may use syrup of Coral, or syrup of Mint, or syrup of Myrtles, or syrup of Pomeranats.

Take Senna half a dram; Rhubarb one fcruple; Tamarinds a dram and an half; Annifeeds bruifed ten grains: Infule them in a sufficient quantity of fountain water; boyl them very gently: and to an ounce and an half of the Decostion, ad fyrup of dried Rofes half an ounce: mingle them together for a Potion.

Take Plantan or Succory water, or Saxifrage water, one ounce; Rhubarb in pouder ten grains; fyrup. Augustan. fyrup of dried Roses of each two drams: Mingle them and make your Potion.

It must be observed, That a more full evacuation is fomtimes requisit, namly, when the flux hath not been immoderat, or of long continuance, and in the mean time the matter offending hath bin copiously collected in the Body. In which case, in lieu of the Syrup of dried Roses, you may take fom drams of syrup of Roses folutive, fyr. Augustan. or of Succery with Rhubarb or Manna: But commonly the faseft way is, to augment the dose of Rhubarb, or elf of Senna, not omitting the fyrup of dried Roses. In

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In the evening after the Purgation, you may adminifter ten grains of *Diafcordium* boyled in *Wine*, with *Cloves*, and a little *Cinnamon*, and mixed with a third part of *Erratick Poppy water*, and fome cordial Syrups, as Syrup of Clove-Gilliflowers to ftrengthen the Spirits and to ftay the Flux; or if the Flux be flubborn, you may mingle two drams of *Diacodium* for a dole inftead of the Syrup aforefaid. Or

Take of Poffet-drink made with white-Wine, the Curd being taken off (aromatize it with a little Saffron tied up in a rag, crufhing it gently between your Fingers) Confectio Alkermes one scruple; Pomgranat Pils in pouder seven grains; Diacodium two drams: mix them together to be taken when the Child is minded to sleep. Or

Take Laudanum according to the London Difpensatory, half a grain ; Magister of Coral twelve grains; Conserve of Clove-Gilliflowers, or Red Roses, one scruple, with a sufficient quantity of Syrup of Quinces, make a Bolus to be taken at bed-time.

If there be obstructions, you may prescribe Crocus Martus, or Salt of Steel, to be taken in the morning. As,

Take Conferve of Rofes one ounce: the Roots of Succory preferved, Myrobalans preferved in *Iudia*, of each half an ounce: Salt of Steel half a fcruple, or *Crocus Martis* one fcruple: Cinnamon, Liquoris, red Coral, of each eighteen grains: Saffron a grain and a half: Syrup of Succory without Rhubarb a fufficient quantity: make your Electuary according to art, wherof let the Child take half a dram each morning. Red hot Iron may be quenched to the fame purpofe in its ordinary drink.

If the Child be troubled with a violent flux, you may give it fom binding Conferves, imagin Conferve of Sloes, and mix it with fuch things as the Child delights to eat, but in fo doing be fure you pleaf its Palat.

Somtimes a profule and exceffive fweating find a peculiar bufinels for the Phyfitian in this affect : for it very much wafts the Spirits and retards the cure of the difeaf.

Yet caution must be used not to restrain it rashly, if perhaps there be a Feaver, or if any feaverish fit, or immoderat heat hath gon before : For in these cases it may be upon a critical time, or at least it may bring more advantage to the Body by the mitigation of the Feaver, than damage by the loss of the Spirits. For we know not whether any thing doth more potently or indeed more sweetly expel the feaverish heat tha fweating.

In the interim when it floweth inordinately and cauflefly, it argueth that the Body is opprefied with obstruations, with crude juyces and unprofitable superfluities, which whilft Nature ftriveth to mafter, and to fubdu, by that very labor, (the opennels of the pores withal concurring) it is evaporated by fweat, and indeed an unprofitable one, very laborious and such as wasteth the Spirits, which therfore as foon as possible must be corrected This Hippocrates meant, where he adviseth, That that Gweat which floweth away without caufe, requireth purgation. For what can more commodioufly diminish and diffipate these superfluitics? Again, this motion is contrary to fweating, wherfore it meriteth the preheminence among the remedies opposed to this Sympton; and feing that it clears the way for Medicines aperient, and fuch as ftrengthen the skin, and move forward conco-Aion, (which perfect the last part of the cure) it ought in al right to be premifed before them.

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Purgative Medicines hitherto belonging, are those that are observed to be friendly, and agreable to Nature, and withal such as open obstructions, and strengthen the Bowels: al which things whither any Simple can perform so wel as Rubarb, we very much doubt. Yet al those Simpl and Compound Medicaments proposed above in the Chapter of Remedies Electively evacuant, may, according to the Condition of the Patient, and the Prudence of the Physitian, be transplanted hither. Som very much commend Beer in this case medicated with Rubarb.

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Take Rubarb cut into any smal peeces, two Drams; Raisins stoned and slit, one ounce; smal Bear, two pound; put them into a Glaß or stone flagon stopt with the best Cork; set it in a very cold place, and stir it very often, but before you use it let it settle again, a whol day, then draw out the liquor for your ordinary drink. When the flagon is empty fil it again with beer but put not in a new quantity of Rhubarb.

Moreover, The most noble Aperients which both help concoction, and repress unprofitable sweating, are *French Wine*, and *Rhennish Wine*. But if there be any fear of their heat in this tender age, they may be tempered with rosted Apples, Borage, or red Rose-water, adding a little Sugar and grated Nutmeg, let them be also taken in a lesser quantity and only at meals.

They are likewise the most effectual Aperients, which do not only help concoction, but also strengthen the *Tone* of al the parts, especially of the Bowels. Among which we chiefly commend things made with steel, as wine made with steel, and the Electuary before named, and the like. Now although steel doth indeed effectually perform those things which we have said; yet because it doth not in all respects answer to some other scopes of A a 4 great

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great moment in this affect, but doth more hurt fometimes in one particular, than it doth good in another; we thought it expedient to fubjoyn these following Cautions concerning the use thereof.

First, Seing that Steel is an enemy to the Lungs, and doth easily stir a cruel flux of flegmatick matter in tender Bodies, therfore you must totally abstain from the use thereof, where there is any Cathar, Cough, obstrustion of the Lungs, and much more, if there be any Inflamation, Pleurisie, Blood-spitting, or a proness of disposition to any of these affects.

Secondly, Becauf Steel contributes little or nothing to the operation of the Blood : but on the contrary (however it may attenuat the tough and flegmatick part thereof) doth rather expedit the feparation therof from the other mais of Blood by reason of the tart quality that is predominent in it, it cannot be admitted but with circumspection, especially that inequality of the Blood being so importunat and urgent.

Thirdly, Seing that the attenuating, cutting and opening faculty in Steel is conjoyned with an apparent and extream drinefs and binding, and therfore perhaps doth more compact those humors, than diffolve and fcatter, them; the use thereof ought to be refrained, at least sufficient in any confiderable *Alogotrophy* of the parts. For the fear is left it should bind too close and confolidate the thort parts of theBones & those that are too fcantily nourished; wherby afterwards they may becom less prompt and apt to grow in length: but the parts flicking out (as also the convex fides of the Bones) which are liberally nourished it cannot diffolve, and then there may be a jealouse that it will too much confirm them and make them stubborn; namly by an extream thickning and hardning of them.

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Fourthly, In all acute Feavers the use of Steel is hurtful, because it over-dryeth and bindeth the Parts, yea, for that very regard that it restraineth Sweating, and makes the humors more fierce and sharp.

These Cautions being rightly observed, we admit the use of Steel in this Affect, but becaus Mountebanks and Quacks cannot diffinguish between the use and the abuse, we would not perswade any to make tryal of this noble Medicine without the advise and counsel of some prudent and knowing Physitian, becaus if it be not circumspectly administred, the danger is very great. Some other Aperients of less note may ferve this scope; as the Roots of Succhory or Borrage, or Conserve of their Flowers; the Roots of Grass, Sparagus, Fernbrake, Madder; the Leaves of Ceterach, Spleenwort, Maidenhair, &c. Among the Compounds Species, Diatr. santal. Diarrbod. abbat. & Or

Take of the best Sugar three ounces, diffolve it in Rose Water and boyl it a little beyond the confistence of a Syrup, then ad Conferv of Barberies one ounce; Diatri. Santal. and Diarthod. Abbat. of each one dram; pouder of Saffron, one grain; mingle them and make your Electuary.

The painful breeding and the aching of the Teeth are the familiar Symptoms of the Rachites; and becauf they breed Feavers, unquietnefs, watchings, and other evils, they alfo deferve a peculiar mitigation; if the Tooth therfore as it is working through the Gam puts the Child to very much pain, you muft without delay (unlefs it were done before) appoint fome univerfal evacuation: as a Vomit, which is thought to be a potent remedy against the Toothach. Now that may be moved by the only tickling of the Throat, putting in

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in a Feather, or the Nurses Finger into the Childs mouth; or elfe with rubbing the Tooth that is breaking forth with a Tobacco Leaf wrapped about the Nurles Finger, and a little moistned with Beer; or laftly, by giving fome vomiting draught above defcribed. But this remedy is forbidden reiteration in regard that it too much may weaken the Stomach. The day following (the pain perfifting or returning) some Cathartick Potion or Bolus among those above reherfed, or like unto those must be administred. After this universal Evacuation you must descend to Topical Remidies. Nurses are wont to rub the Gums with Corral polished for that purpose. But the Physitians do rather commend the Root of Marsh Mallows, which do mollifie and loofen the Gums that they may obtain the more easie passage. Others report it for a great secret to rub the aching Tooth with the Root of the sharpest Sorrel. Others very much commend the rubbing of that Gum where the Tooth is coming out with a Cocks Comb newley cut off, or with the hot Blood distilling from that Wound. We have had no experience of those things which they use to instill into the Ears; in like manner, neither the Plaisters of Mastich, Olibanum, or red Lead, which in those of full growth are observed to ftop the Rhewm. Others apply imall Epispastick Plaifters behind the Ears, which perhaps compel back the matter that breeds the pain in the Teeth. But neither do we interpole our judgment concerning these things. Only when Univerfals are unavailable, we have recourf to Hypnotical Remedies, which indeed by outward application profit little, but being taken inwards they are very helptul, especially being rightly prepared and duly corrected. Therfore when want of reft and watchings beget moleftation, thus we proceed.

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Take Dialcordium feven grains; Syr. de Meconio, one dram and an half, or two drams; Posset Drink made of Milk and white Wine, with a little Saffron, one ounce, or ten drams; mingle them and give it at Bedtime the next night following after the Purgation.

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Take Ladanum, according to the London Dispensatory, half a grain; the Cordial Pouder of the Claws of Crabs ten grains; Conferve of Clove-gilliflowers one scruple; with a sufficient quantity of Syrup of Balm make a Bolus to be swallowed in the evening at sleeping time. Thus much of such things as correct the Symptoms.

CHAP. XXX V.

External Remedies.

*** Aving finished the Disquisition of the matter * H* and kinds of internal Remedies, we shall now direct our Discourf to external Reme-**** dies. Which indeed we have referved for the last place, not becaus they must perpetually be last put in execution, but becaus they are altogether of a different kind from the internal : now Universals are to be administred immediately after Evacuants, or at least after those that are electively Purgant, and withal with the Specifical Alterants, unto which kind they belong, although indeed as they are external, they differ from them. Now we defire that we may here be understood by external Remedies to signific and intend every kind

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of Medicament which cannot properly be referred to Chyrurgery, or those things that are inwardly taken, prowided that they have their use in the Cure of this Affect.

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- Therfore we divide it into two Kinds, namely, The manner of Exercise, and things externally Applicable.

The Manner, or Kinds of Exercise.

All kinds of Exercife, unto which Children are accufomed, may be useful in their time and feason. But becaus Children who are molefted with the *Rachites* are fomwhat avers from motion and by reason of their weakness of Spirit, and unaccustomedness of Exercise do scarce after the beginning of the cure, or indeed not at all endure violent motions; therfore they must begin perpetually wirh gentle Exercises, and afterwards proceed by degrees to stronger; in like manner at first they must continue but a short time, but afterwards a longer space without any intermission.

We therfore diffinguish Exercises into gentle, and vehement or Masculine. The gentle we refer first to the manner of lying down. Secondly, To the agitation of the Body in the Cradle. Thirdly, To the carrying them about in the Nurses Arms. Fourthly, To sedentary pastimes.

First, Lying upon the Back among all the postures of the Body doth chiefly recede from Exercise, and is almost only allowable in the extream weakness of the Spirits, as in accute Feavers when the Spirits are spent, likewise in many cases of the Cheft and Hypochondriacal parts, as frequently in an inflamation of the Liver, Spleen, Lungues, in a Pleurisie, in the growing of the Lungues with the Pleura, and an Imposthume, &c. 1

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² The lying upon one fide either right or left cometh neereft to the Supine Position, and participates very little of the Nature of Exercise. Wherfore it is also allowable in any great weakness of the Spirits, at least in regard of altering the posture of the Body, as also when a profound fleep is not expected. Moreover, it is somwhat profitable to strong Bodies in the time of the first or second fleep, after just internals still changing fides. But afterwards perhaps it is not so agreable unto, nor beneficial for them, especially when the Body is fully refreshed with fleep. For then that posture is best which draweth neerest to the Nature of Exercise.

The Simple Lateral Polition containeth fomwhat more of Exercife, and is inconvenient for weak Bodies and fuch as are not ufed to it in the time of profound fleep: but otherwife it may be made familiar, if for a while they will accustom themselvs unto it. It is at all times good for ftrong Bodies, provided that a due care be had to alter and vary it.

The lying on one fide towards the Belly is laborious and troublefom, and not to be continued long by ftrong and robuftions Bodies that are not ufed to it. But the moleftation being overcome by cuftom, it is more eafily tolerated : and becauf it eafeth the pains in the Head, helpeth the Concoction of the Stomach, mitigateth the pains of the Chollick, and loofneth a coftive Body, it may be fontimes ufeful when Nature is throughly fatisfied with fleep, and in this affect it may fupply the place of Exercise. For it fontimes hapneth in this Difeaf, that Children for fome time are not without difadvantage trufted to their own Feet, yea many times they gain more by reft than walking up and down. For walking rather confirmeth than cureth the bended

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bended Joynts; but lying down, when the parts are well swathed, conduceth not a little to their erection. Then again, lying down helpeth very much to ftretch and lengthen the flort parts, as may be perceived by the growth of the parts in length after a Difeal. Thirdly, Lying down, in regard of the common Coverings of the whol Body, advanceth an equal dispersion of the heat through all the parts. Laftly, lying down, if you observe a right way of placing and making the Bed, may contribute very much to correct the crookning of the Back-bone and the whol Body, for when they lie upon the gibbous and bunched Side, a little bag made for the fame purpole may be laid under the parts flicking out, and fo made fit that the gibbous parts may in a manner fustain the weight of the whol Body, and fo they may be compelled as it were to itraightnels. But when Children roul to the other fide, the bed should be fo made, that if the little Pillow or Bay be taken away the hollow part should scarce touch the bed unless he conform himfelf to a straight line, that by his weight it may be depressed to a straightness.

Secondly, That kind of exercise which is performed by the rocking of the Cradle somewhat emulates this lying down. The Cradles are suftained upon two Arches, or two parts of a Circle: now the more they have of a Circle, the more effectually they exercise the Infant. This motion in time of fleep must be intermitted, or at least remitted; but whilst the Child waketh it must be some intended, and some remitted. It is most profitable for weak Infants that can scarce stand upon their Feet, or are otherwise hindred from waking.

Thirdly, The bearing them about in the Nurses Arms is almost agreable to the same Children, and under the same conditions : in like manner the rejoycing

of the Child whilst the Nurs fingeth, either as it fits in her Lap, or is held up in her Hands, as allo the toffing of it up and down, and waving of it to and fro, and if the Child be ftrong by holding it gently up by the Hands, if it be weak, under the Arms, yet fo that the Thighs and the whol Body may hang down-Also the drawing of the Children backward and forward upon a Bed or a Table between two Nurses, the one holding it by a Hand, the other by a Foot. The two last motions feem to contribute formwhat to the erection of the crooked or bended Back-bone, especially if the Hand which is laid upon the depressed Shoulder, and the Foot which is belonging to the elevated Hip be drawn with more ftrength and vehemence than the other hand or foot. To the same end also tendeth the lifting up of the Child, taking him by his Feet only, fo that the trunk of his Body and his Head may for a time hang down in an inverted posture; although indeed this action may also seem in some manner to relate unto the growing to of the Liver, if any fuch at that time be : as also that convolution of the Body, whereby the Head being lowermost the Feet are lifted up; and then again the Head being lifted up the whol Body is inverted. Hitherto also may be referred that rouling of the Child, which som use, upon a Bed or Table, the Body being laterally declined : which we more approve if it be not rouled quite round about, but only backwards and forwards, laying a little hard Cushion underneath, wheron the gibbous part may reft, & suftain the weight of the Body. This exercise being rightly practised doth help much to Araighten the Body.

Fourthly, Sedentery Games and pastimes are the least profitable among all exercises for Children that have the Rachites, and indeed they are only allowable to still and

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and quiet them. But the more beneficial wil be to tempt them to a frequent use of their Feet by playing some little Ball or Cat before them that they may be often kicking them. But if the Body of the Child be crooked, such sports must be invented as may allure him to move his Body to the contrary side. When therfore one Shoulder is higher than another hold up fom Gewgaw or Rattle before the Child that he may firetch out the Hand belonging to the lowest Shoulder to reach after the offered object. But a thousand such like inventions may be found out, and we leave them to the Nurses industry.

The Masculine Exercisse of greater note we reduce to these three Titles.

1 To Going. 2 To an Artificial hanging of the Body. 3 To Fristion, rubbing, and contrestation of the Hypocondries and the Abdomen.

First, Ostentation or making may be numbred amongst the more noble Exercises. For Children that are big and ftrong, and used to run up and down every day, do by walking and ftirring about, the more eafily rid away this Difeal. But this kind of Exercise must be refused unto them whole Joynts are not knit and confirmed, and whole Ankles, Knees & Back are fo weak that they cannot fuftain the Body. For when Children by the negligence of their Nurses are too soon committed to their Feet, it eafily coms to pais, that they fuffer those Joynts to be bended either inwards or outwards, backwards or forwards, and confequently they are the occafion of that deformity which befalleth the Bodies of moft men and women. Moreover, those Children which have already contracted fuch a bending in their joynts, either by the natural weakness and loosness of the Ligaments, or by the bad usage or indiligence of their

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their Nurfes, must be trusted to exercise their Legs, till fome splents or other instruments be provided, which may be able to erect the bended Joynts and to keep them in an erected posture. The driving of Children up and down in their Coaches or Chariots is much to the same purpose, provided that they be so contrived that there be no danger of stumbling or overthrowing.

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Secondly, The artificial fulpenfion of the Body is performed by the help of an Inftrument cunningly made with swathing Bands, first croffing the Breast and coming under the Armpits, then about the Head and under the Chin, and then receiving the hands by two handles, so that it is a pleasure to see the Child hanging pendulous in the Air, and moved to and fro by the Spectators. This kind of Exercise is thought to be many waies conducible in this Affect, for it helpeth to reftore the crooked Bones, to creft the bended Joynts, and to lengthen the fhort Stature of the Body. Moreover, it exciteth the vital Heat, and withal allureth a plentiful distribution of the Nourishment to the external and first affected parts : and in the mean time it is rather a pleasure than a trouble to the Child. Some that the parts may the more be stretched, hang Leaden Shoos upon the Feet, and fasten weights to the Body, that the parts may the more eafily be extended to an equal length. But this exercise is only proper for those that are ftrong.

Thirdly, Friction or rubbing may in some manner be likewise referred to Masculine Exercises: not inleed in respect of any active motion in the Child requisite to the administration therof (for it is performed by an action of the Nurs rather than of the Child) but n respect of a like force and efficacy which it hath in he curing of this Affect. Now Friction seemeth to be [B b]

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twofold, as partly belonging to the kind of Exercise, and partly to those things which are outwardly to be applied, for which cauf we have referved it unto this place, that it might be the last in the number of the Exercises, and immediately precede the external applications. This must be done (at least in the Winter time) by a warm fire, the Child being in all respects well fortified from the injuries of the weather, and the violences of the cold Ayr. Some Nurses administer this Friction with a hot hand, others with Linnen Cloathes dried and heated ; others with woolen Cloathes; and others again with a little Brufh, and indeed fome do most commend the Brush, and prefer it before the other waies, but becauf there feemeth to be fo little difference in all the waies, we approve them all, and leave the choice to the Nurses wildom. But let them begin this Friction at the Back Bone, the Child being laid upon his Belly, and let them ftir their Hands now upwards, now downwards, now on each fide, then to the Thighs, Hips, Legs, Ankles, the Soals of the Feet, and all the parts of the Body, those excepted where there is a flicking out of the Bones, and there let them rub the hollow part of them. This action must not be continued beyond a moderate ruddinels raifed in the parts, left the Natural heat fhould be feattred, rather than cherished. This kind of exercise is most agreable to weak Children; and fuch as are fcarce able to ftand or go. For it supplieth the defect of running up and down,exciteth the Natural heat, fummoneth the Vital, and attracteth the Nourishment to the affected parts. Yet we grant that Friction doth not fo powerfully fummon the heat and nourishment to the Flesh of the Mulcles, although perhaps it doth more to the Skin, as exercise doth propelry to called, and confequently that it must yield

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yield in dignity and nature to true exercises. To Friction also belongeth that contrectation of the Belly, or of the Abdomen and the Hypochondries, fomtimes lifting up the Bowels, fomtimes depreffing them, fomtimes removing them towards the right, fomtimes towards the left hand, and fomtimes thrusting in the tops of the Fingers under the Bastard Ribs. And Physitians hope, and not without reason, that by this action they may deliver the Liver from any preternatural growing with the Peritoneum, if any fuch fhould chance to be. And here we note by the way that fuch growing of that Bowel may eafily happen in this affect by reason of the greatness of the Liver and the stretching of the Hypochondriacal parts, wherupon the Peritoneum and the Membrane of the Liver are are most neerly and ftrictly conjoyned, and being conjoyned may remain long in the fame Position, and so by the help of time they may eafily grow together. This growing together in as much as it dependeth (as we have faid) upon the ftretching of the Hypochondries, and the bignefs of the Liver, it may not incongruoufly be referred to the secondary Essence of this Diseas, namely, to the organical parts viciated, among which it deferves to be reckoned, although above we chanced to omit it in its proper place, and therfore we thought good to mention it here. Thus much of Exercises, now follow the External Applications.

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CHAP.

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CHAP. XXXVI.

Things to be Externally Applied.

The prerequire Friction, but for the moft part they are administred with a gentle Friction. Now they are either General, or Universal, respecting all parts alike, or Particular, and dedicated to certain Regions of the Body. The matter of the Universals is almost the same with that which we have propounded above in the Chapterof Specifical Alterant Remedies : but the matter of the particulars must be diftinguished according to the variety of the Regions of the Body unto which they are applied. The forms of either kind seem to be common, and they are five in number, Liquors, Oyls, Liniments, Oyntments, Playsters : although Plaisters are dedicated rather to certain parts, and never are at once applied to the whol Body.

Liquors that have been commended by long experience in this Affect are almost all kinds of Wine; but especially Muskadine. But some do prefer the Pruisian Beer, which indeed may help much to strengthen and confolidate the Parts, but very little or nothing at all to effect the equation of the Blood, or an equal distribution of it. The same judgment is also to be made of Aligant, as also of red Wine. Some instead of Wine use ordinary Aqua vita, which is believed to be nothing

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thing inferior to Wine, Decoctions also may be prepared for the fame use. As,

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Take the Roots of Royal Ofmond, the Leaves of Sage, the Flowers of Marigolds, the Leaves of Bay-tree, Pauls Betony, Hartstongue, of each balf an handful; Rosemary, red Roses dried, of each one pugil; boyl them in Fountain Water, and ordinary Aqua vite, of each a pound, to the consumption of the third part; strain it and keep for your use. Or

Take the roots of the male Fernbrake one ounce, the leaves of royal Osmond, Clary, Bay tree, Sage, Pauls Betony, of each half a handful, infuse them in some wine, and keep the strained liquor for your use.

But these Liquors are feldom or never administred alone, but must be mixt with equal parts of Oyls, Liniments, or Ointments; and indeed they must be used before a warm fire, and rubbed on with a hot hand til they be dry.

Compound Oyls fuch as are approved in this Affect are very few, and those ineffectual : but there are many Simple Oyls, as Oyl of Earth-worms, Chamamile, Marygold flowers, Pauls Betony, Neats-foot Oyl, unto which you may also ad Oyl of Foxes, Oyl of Whelps, Oyl of Swallows, provided that these last be prepared Simply by themselves without any commixture of extream hot ingredients.

Oyl of Exeter, although some Practitioners use it, and though it be a little hotter then is fit to be used alone to so tender an age as is troubled with this Diseas, and so are other things which are vulgarly used, as Oyl of Castoreum, or *Facobi de Manlius*, and *Ung*. Antiparalyticis, and other Ointments, as, de Nervino, Martiato, Aregon, and the like. And the reason is, because such a numnels afflicts not these as it doth such as are Paralitical, nor Bb 3 the

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the fame Defect of Vital Spirits, nor the fame unequal distribution of nourishment. But because this is a new Diseas, if any defire Oyls, Ointments, or Liniments proper to the Evil, let him make use of a right Method, an able Physician, a specifical way either of Oyls or Ointments as we shal shew you by these examples :

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Take the leaves of red Sage, Betony, Pimpernel, Marygold flowrs, of each two handfuls: the roots of royal Ofmund fix ounces, May Butter three pound, white Wine half a pound: cut the Herbs, bruife the Roots, and boil them according to art til the Wine be confumed: Afterwards strain them being yet hot, and put to them oyl of Nutmegs drawn by expression one ounce and an half, mingl them diligently, and after setling, casting away the dregs, make your Ointment, which you may referve in a glaß Vessel for your use. Or,

Take the leaves of Brooklime, Chamomile, Watercreffes, garden Scurvygraß, Pauls Betony, Motherwort, Maidenbair, Hartstongue, Ceterach, Bayleavs, the tops of Mint, red Sage, Rosemary, Ivy-berries, of each balf a handful: the Roots of royal Osmund four ounces, Muscadale balf a pound, May Butuer three pound: cut the Leaves, bruis the Berries, and boil them all to the consumption of the Wine, strain it whils it is hot, and seperating the pure substance from the setlings, make an Ointment according to art. Or,

Take the leave of red Sage, Pauls Betony, Hartftongue, stinking Gladon, of each two haudfuls : the roots of royal Ofmond fix ounces : the tops of Lavender, Rosemary, Bay-leave, of each a handful : common Aquæ vitæ, one pound : Oyl of Neats-feet, and Foxes, of each half a pound : Deers-suet, or the suet of an Ox, Oyl of Worms, of each one pound, boil them to the consumption of the Aque vitæ : strain out the Ointment whilst it is hot, and making

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making a seperation of the dregs, keep it for your use.

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Fourthly, Take the green leavs of royal Ofmond, fix bandfuls: Pimpernels, Morigold-flowrs, the leavs of red Sage, Clary, Mother-wort, Brook-lime, Watercreffes, of each a bandful: the leavs of Rofemary, Bay, of each balf a bandful: chop them together very smal, and beat them diligently in a Marble or Wooden Morter, with a wooden Peftle, with fix pound of unfalted Butter, and so let them stand fourteen days, then melt them gently in a Bath, and as soon as they begin to be bot, strain them, and then put in a new quantity of Herbs as before: at length strain and purify your Ointment, and keep it for occasions.

To these general external Remedies som particular ones relating to som certain parts of the Body may be sub-joyned: as if the region of the Abdomen, especially the Hypocondria, be stretched, hard and swelled, and this stretching hardness, and swelling would not yeild to a Purgation though rightly administred, then you must proceed to Local Remedies: As,

Take Oyl of Capers, Wormwood, Elder, of each one ounce: of the general Ointment first described, one ounce and an half: mingle them and make a Liniment.

Or,

Take Ointment of the opening juyces Foefius three ounces, the first general Ointment two ounces, mix them together and make them one Ointment : also Oyl of Saxifrage made of a manifold infusion, and boiling of the bruised Herb in common Oyl is much to be commended to be mixed with it.

In the time of using it, this and the like Liniments or Unguents may be mingled for penetration sake with fom appropriat liquor : As,

Take

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Take the flowers of Elder, the flowers of red Sage, Bay-berries bruised, white Sanders slightly beaten to pouder, of each two drams, white Wine two ponnd, steep them for three days in a cold place in a glass vessel accuratly stopt with Cork, and shake it twice a day: when you use it, strain as much as will serve your present occasion, then stop your vessel again. Or, if you defire a stronger,

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Take the roots of white Bryony well dryed and fliced, Bay-berries, Goof-dung, of each two drams: Cumminfeeds one dram: the leaves of red Sage, the flowrs of Elder, of each one pugil; boil them in one pound and a half of Rhenifh-wine to a pound: keep the Decottion in a cold place diligently flopped.

Thefe and the like Liquors mingled with the Oyntment, and heated at the fire, must be rubbed upon the Abdomen, and especially the Hypochondries, even to drinefs. Let the Nurse also having well warmed her hands, handle those parts gently, somtimes pressing the Bowels upwards, somtimes downwards, somtimes to the right hand, and somtimes to the left, according to our former Directions.

The most galent thing of all is the Balsom of Tolu mixed with any Oyntment or Plaister, and so applied to the Region of the Back either in form of an Oyntment or Playster.

Plaisters also seem to contribute somthing. As Take three ounces of Ceratum santalinum; Gum Ammoniacum dissolved in Rhennish wine, or in som other medicated wine above described, purified and boyled again to a thickness, one ounce: make your Plaister according to art. Spread part of this upon Leather and lay it upon the right Hypochondry, or elf the left, if the hardness be there most sensible, which indeed is very feldem. Or Take

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Take the fuyces of Brooklime, Watercreffes, Garden-Scurvygraß, Wormwood, the bark of Elder, the roots of the male Fernbrake, of each one ounce : Let the fuyces be purified with a gentle heat, and being extracted reduce them to a thick body, then ad one dram & an half of Mace, and two drams of yellow Sanders in pouder.

Take of this Mixture one ounce and an half: Gum Ammoniac. disfolved in wine and boyled to a body four ounces. Mingle them hot, and stir them continually till they begin to wax cool and hard, and make a Plaister to be applied as the former.

5 Moreover, when the Lungs are il affected many times a peculiar pettoral Plaister is very useful. As

Take Oyl of Violets, white Lillies, and the Ointment of Orenge flowers, of each one ounce : Mingle them and make a Liniment to be rubbed with a bot hand upon the Breast, laying a Lawn Paper over it lined with Wool or linen cloth. To this Liniment you may ad a smal quantity of Natural Balsom. Or

Take two ounces unguent. Pectorale; an ounce and an half of fimple Ointment of Liquoris: one ounce of Oyl of Violets. Mingle them and make a Liniment to be used after the same manner.

The Ointment of Liquoris is thus made

Take new and Juycy Liquoris four ounces: new unfalted Butter washt in Rose water one pound: slice the Liquoris and beat it wel with the Butter in a stone Morter, afterwards fry them, then strain and squeeze them, and repeat the same labor thrice with a new quantity of Liquoris.

Again, Som Plaisters may be prepared proper against the weakness of the Back, which very frequently hapneth in this Affect. In the Shops you may have the Plaister of Betony, and Diachalcitheos, unto which nevertheles

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vertheles when you use them, you must ad Mastich and Olibanum in pouder of each half a dram : the Plaister also which is called Flos Unguentum may hither be referred, provided that you omit the Campbire, in like manner also Emplastrum Nervinum. Or

Take two ounces of the first general Oyntment; five of the Herbs that are contained in that Composition, cut and chopped very smal; Yellow Wax four ounces; the purest Rosin eight ounces: the Oyntment, Rosin, and Wax, being melted ad the Herbs and according to art make a Plaistr. Or

Take fifteen ounces of the third general Oyntment; Litharge of Gold beaten smal and sisted nine ounces; boyl them together continually stirring them to the consistence of a Plaister; then ad Wax, Burgundy Pitch, of each three ounces; Oyl of Nutmegs by expression three drams; Mastich, Olibanum, Mirrh, of each one dram and an half; Costorium half a dram; white Vitriol in pouder half an ounce; make your Plaister according to ant.

The Practioners in Phyfick differ in the Figure, and about the Application of these Plaisters. Some chuse a longish and narrow Figure, and apply it according to the length of the Back-bone. Others appprove a broa-

difh and almost gure, such as you they extend it downward upon ven to the utmost when the lower bone, as also the namely those row their Nerves trian fee I from the C end t parts Knee parts

triangular Fifee here, and from the Loyns, the Os facrum, eend therof. But parts of the Back-Knees and Legs, parts which borfrom the lower

part of the Spine, are weaker than the Superior, we do not

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not judg this latter to be a convenient form ; but when the upper parts of the Back-bone feem to be the weaker, we fuppole the former longifh form to be the more agreable.

In like manner fome commend a Liniment for the weakness of the Back-bone which confisteth of Gelly of Harts-born, made with such things as strengthen the Sinews, adding the Flowers of Sage, and the Roots of our Ladies Seal. In the time of anointing mingle therwith a little Oyl of Nutmegs by expression, or Oyl of Worms, or Mans Graß. And thus much of external Remedies.

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