Deliramenta catarrhi, or, the incongruities, impossibilities, and absurdities couched under the vulgar opinion of defluxions / The author ... Joh. Bapt. van Helmont, &c.; The translator and paraphrast Dr. Charleton.

Contributors

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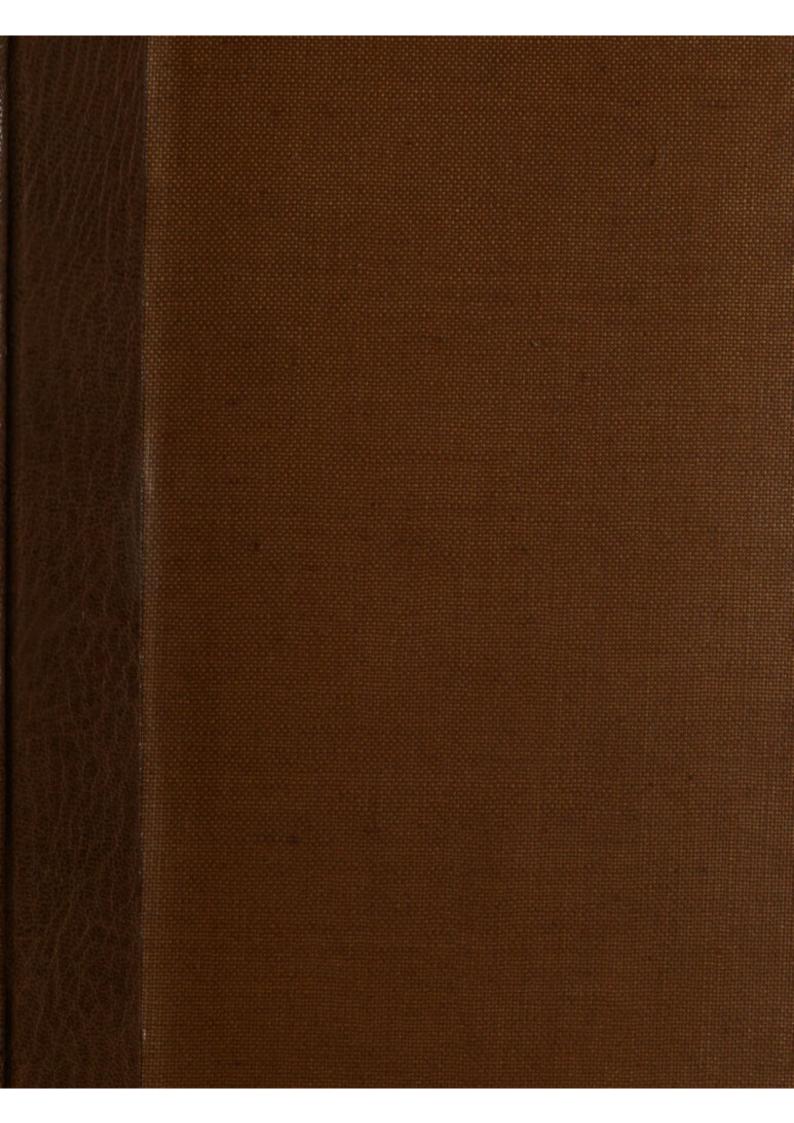
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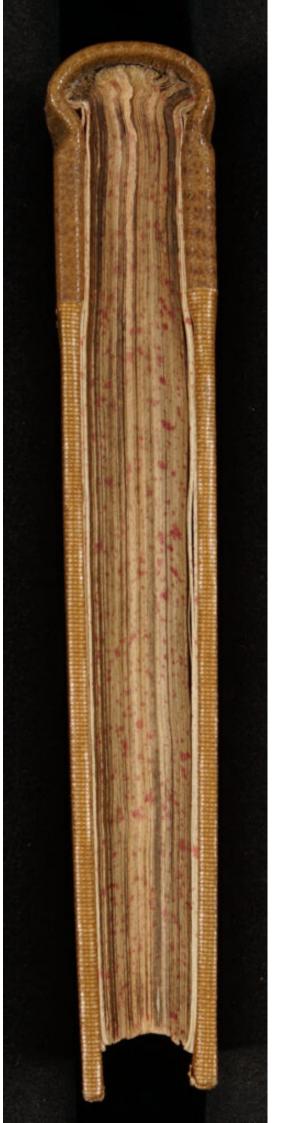


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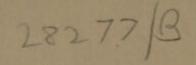




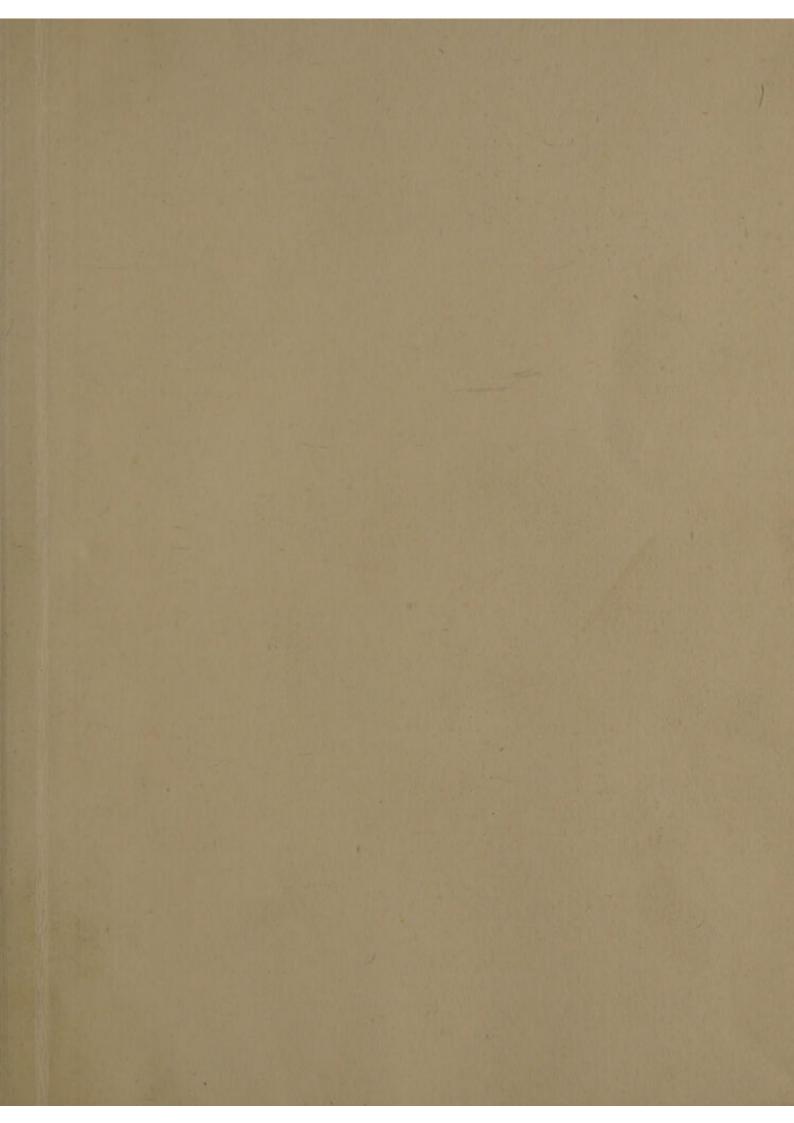


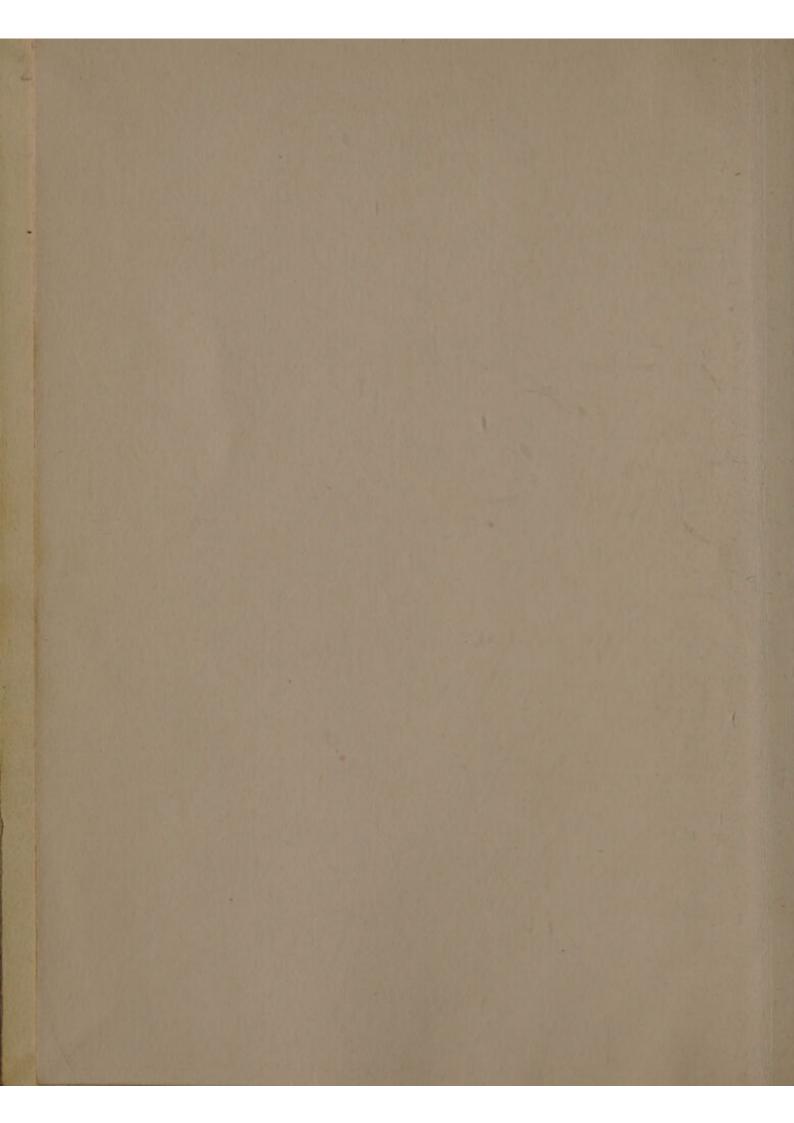


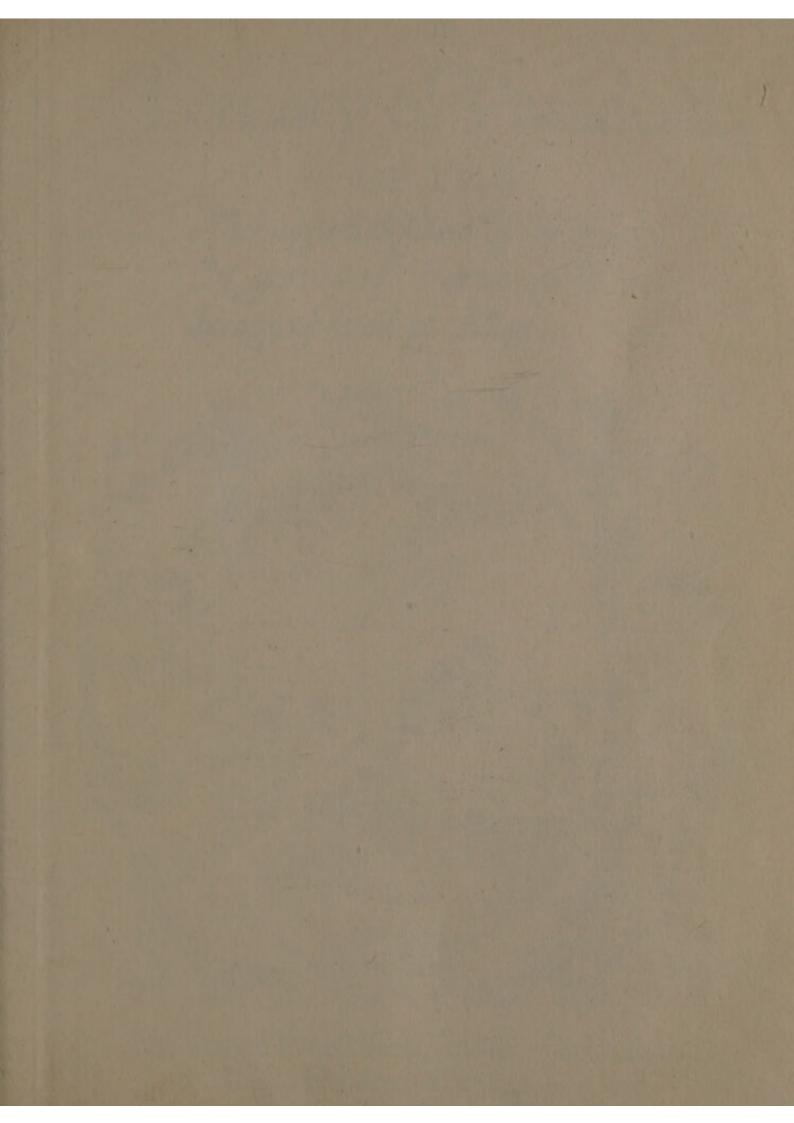


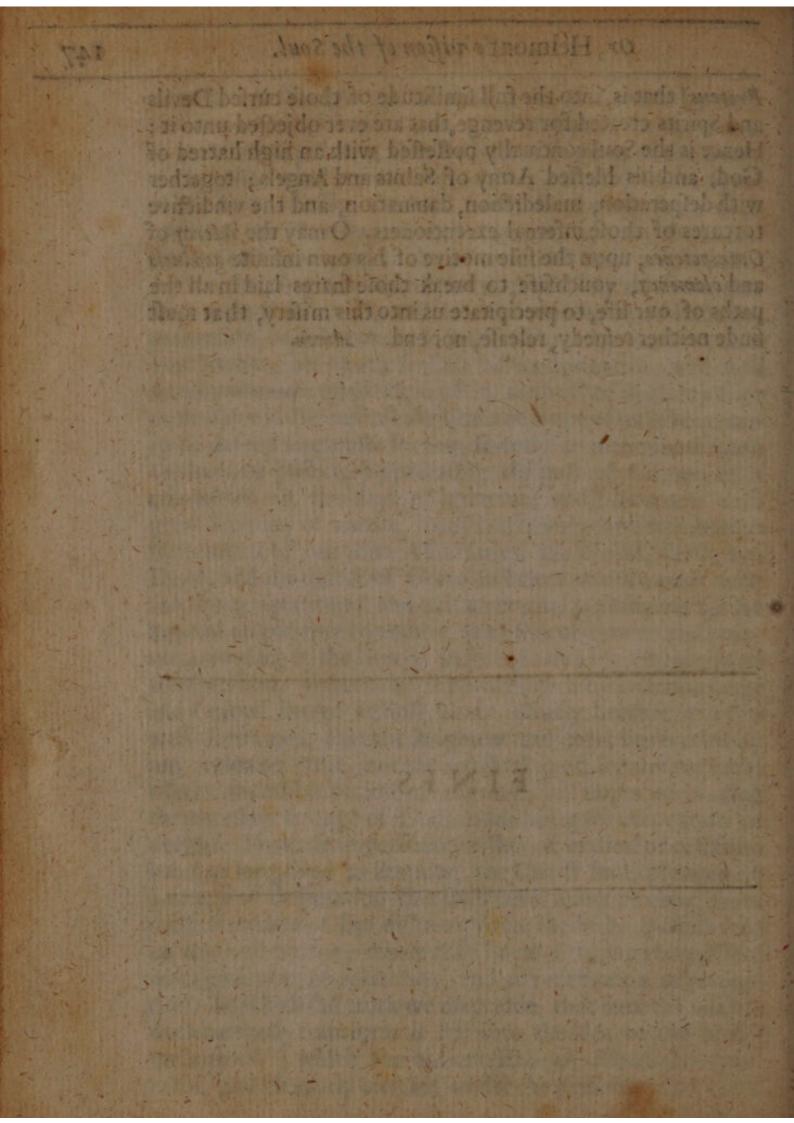


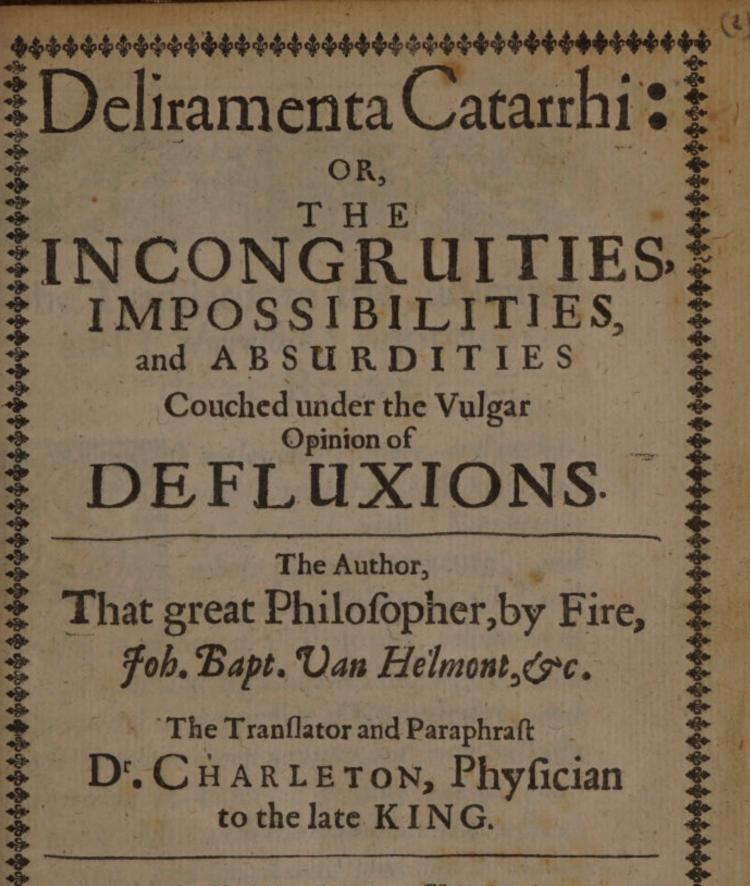
HELMONT, J.B. van) A ternany of paradoxes 1650. 2) Deliromenta catanti 1650





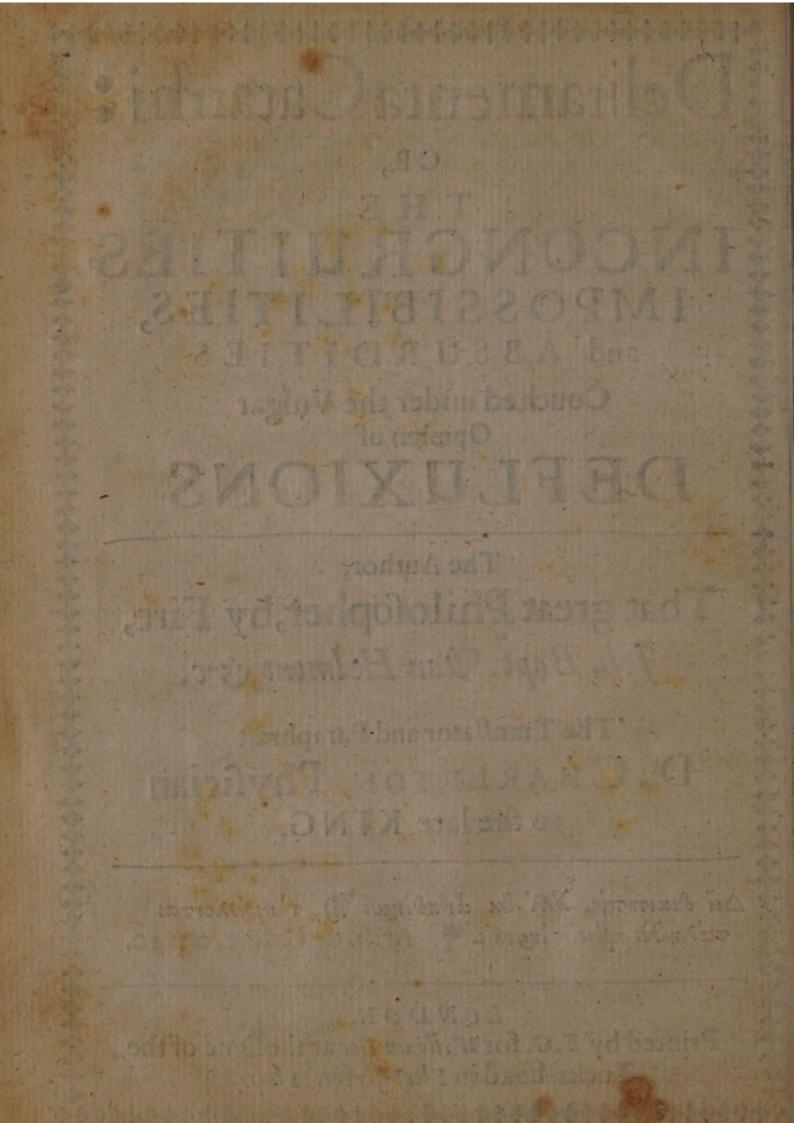






Δά διαιτηταίς, 2002 3π αντιδίηους 20, τος μάλοντας ταληθές πρίνειν ίησινώς. ¶. Arist. de Cælo, 1. cap. 10.

LONDON, Printed by E.G. for William Lee at the signe of the Turks-he ad in Fleet-street. 1650.





The Translator to the Judicious and (therefore) unprejudicate Reader.



0 malevolent, severe, and uncharitable have the Censures of many (yet such onely, I conceive, whose parcel-literature, and incapacity of the more solid and

weighty Notions of Philosophy, delivered in most proper and significant language, have depraved their Appetite of Knowledge, and made them fit to digest nothing, but crude Sallads gathered in the Poets Elizium, and foft Romances, oyled with the effeminate Extracts of the Stage, and spiced with some new French-English idioms) been of my precedent exercise; that the World might expect from me rather a Vindication of that, then the Publication of a second, of the same kind. But as Iever levelled my endeavors at a far nobler end, then the nothing

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nothing of vulgar Applaus: so also have I declared the temper of my Genius to be too Stoical, to feel the weak affaults of that cowardly Pygmie, detraction; whom hanfomly to overcome, is to scorne. For common observation will justifie, that no man ever entered the lists with that ignorant Bug-bear, but lost much by the encounter: his judgement inevitably receiving such VV ounds, as the reputation of his Courage could never cure, or compensate.

Nor shall I at all recede from this Maxime, though I here adventure to professe, that next to the discharge of that duty, which, as a Scholer, Iowe unto the Publique, in the Explanation, Improvement, and Communication of obscure Truths; the most forcible motive, that incited me to bestow a few recreative houres on the Translation, and marginal Paraphrase of this piece of Helmont, was to have an opportunity of letting these Semi-criticks know : that though they have privately accused, yet would it have stood more with their Honour publickly to have convicted me of such improprieties of expression, or unnatural perversions of my Authors sense, as might make me alter any thing of moment in the former, or change my stile in the For present discourse.

For though I am sufficiently conscious to my felf of more defects, and greater unevennesse of. my Pen, then the acutest of my Calumniators can discover; and do account it more noble to # detect my own, then others Frailties : yet I dare appeal to the fober Decifion of any, whofe Studies hold any proportion with the Subject, (and (uch onely can I allow for competent Judges) whether the fine and mysterious nature of many things, treated of in that discourse, might not have suffered a grosse Eclipse, if dreft in a meer-English veil? Whether it be a Crime in me to trace the footsteps of those Worthies, who have infinitely both enriched and ennobled our Language, by admitting and naturalizing thousands of forraigne Words, providently brought home from the Greek, Roman, Italian, and French Oratories; which, though in the untraveld ears of our Fathers they would have founded as harfh, as St. Pauls appnor phyana *; yet have a few years made so * Ineffabilia familiar unto us, that now even Children speak Cor. 12. c. much of Latine, before they can well read a ver. 4. word of English? And to draw in to the Cen- "Qui venuter of the Scandal, whether I have merited the borum, non Epithite of royodaidar Go * of one that præfers lenfoum a. cumen infe-

the Statur.

the noveltie, or affected elegance of the Phrafe, to the nerves and importance of the fenfe; meerly because I rendered some Physical Notions in terms most amply and adequately exhibiting their qualities; and those no other, but such as are most frequent in the Schools: and attempted to paint the beauty and life of Helmonts spruce Conceptions, in Colours most strong and natural; though borrowed from the more præcise, distinctive, and emphatical Tinctures of forreigne Artists?

I can not but appland the Spirit, and happy Phanfie of this Tetrastick,

Casp. Hofmannus in præfatione fua ad lib. de Generat. Homin. ¶ Legisti nostros? risisti, Romule, libros? Ut vidi, ut risi, Romule Dive, tuos. Quæ Causa effectus paris in tam dispare causa? Risisti ingenium tute, ego stultitiam.

And when any of the tribe of Zoilus shall shew us something of their own, I may perchance be furnished with an opportunity of Applying them.

But lest If all upon a Parergie, and loofly deviate into that finister path, which my resolutions abhor; I return directly to my duty, which is to give the impartial Reader the Reason, which personaded me to exhibite my Explanation

tion of Helmonts unfrequent, and new coyned, or new-applied Termes of Art, in Latine. In a word, I conceived that the Quality of the Subject, intimated by each of those paradoxical Appellatives, being such as falls under the comprehension of none, but the leading part of learning, and chiefly those, who have more then looked into the mysterious Temple of Æsculapius, did necessarily require it : and that no English, how plain sever, could have driven their ample meaning into those skulls, which are so thick, as not to admit it in Latine.

As concerning the Verity of these Paradoxes, inspersed upon the ensuing Treatife, though I have formerly declared my Aversation to attempt any Commentary on, or decisive Affertion of any of his Innovations; in regard I ever found his reason stronger at Demolishing the Doctrines of the Antient Pillars of our Art, then Erecting a more substantial and durable Structure of his own, his Witt more acute and active at Contradiction, then his judgement profound and authentick at Probation: yet shall Insurp the liberty to say, that many of the Grounds of his quarrell against the Schools, in this particular of Catarrhs.

tarrhs, are sufficiently justifiable; and that if any member in the whole body of Phylick needs to have its errors purged, stupidity corrected, distortions rectified, and leannesse reformed, doubtlesse this Capitall one of Defluxions may chiefly deserve the industry of the present, and gratefull improvement of the future Age. Nor fould I have onely faid it, had not my expe-Station, that some more judicious and elegant hand will shortly set about that so necessary, charitable, and honourable task, whiffered me, that this difficult, and (therefore) infinitely de-Siderable piece of knowledge, would unavoydably have suffered irreparable detriment, dilparagement, and obscurity from the Contagion of my unequall undertaking. And I am bold to promise, that if any sober mind, imbued with that usefull Lesson of Aristotle, * eri se βέλτιον αναγκή έχειν περ'ς το κρίναι, τον ώσπερ αντιδικων η των αμφισ βητέντων λόγων αμηκούτα πάντων, Shall come to the dispute, denudate of all interest, and purged from all the dreggs of Adhærence to either side; he shall soon be convicted, that in all that long flux of time betwixt the daies of Hippocrates and us, no one (at least that ever came to our view) among the numerous (warm of.

Patho-

Metaphyfi corum lib.3. cap.1.6 de Cœlo lib.1. cap. 10.

Pathologists *, hath discoursed of the nature *Writers on and causes of fuch Diseases as are in unlgar the Diseases practice confidently referred unto the Distilla and Symption of Rheums from the head upon parts dent to the of inferior situation, with such cleare and un-body of man. controulable reasons, as not to have left very large gapps, for the easte illation of these scruples and objections raifed by Helmont a. gainfi them. In brief; whoever shall so far contribute towards the advance of his own knowledge, as to receive the Arguments here opposed to the traditional Theory of Catarrhs, with that equal justice of improving them to that height, with which they are offered; will, I doubt not, afford us his concurrent vote : that the chiefe impediment to their prevailing upon the beliefe of many diffenters, will be their Novelty. For hardly doe we part with those Doctrines, which instilled into our tender and unwary yeers, have grown up together with our understandings, and hold our credulities enflaved to an implicite confor. mity, by the tyrannous title of Præscription. A deplorable remora to the timely exantlation of Truth, long fince difcovered and complained of by the grave and yet most acute Stag1-

and firme arguments are sometimes brought to the contrary, with great violence, we approve or reject them according to the conformity or disproportion of those Notes formerly registred. The remove of which obstruction shall be the constant businesse not onely of my studies, but also of my earnest prayer.

Quæ in Schola & Cathedra aliquando præter tationem, plerumque ad acuenda ingenia juvenrutis, in theoria proponuntur, funt toleranda : quæ vero in praxi in perniciem ægrorum præscribuntur, potius execranda & damnanda, quam admittenda esse, existimo.

Quid verum, atque decens curo, & rogo, & omnis in Condo, & compono que mox depromere possim. Ac ne forte roges, quo me duce, quo lare tuter ? Nullius addictus jurare in verba magistri, Quo me cunque rapit tempest as, deferor hospes. Nunc agilis fio, & mersor civilibus undis, Virtutis vere custos, rigidusque satelles. Nunc in Aristippi surtim precepta relabors Et mibi res, non merebus subjungere conor.

Poeta Philofophus ad vada Maandri concinnit.

CHENTE CMAINTERNESS SPEEK FIRENERS STREETS

VV. CHARLETON.

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The Errors of Physicia=ns Concerning DEFLVXIONS. CONTRACTOR AND A DESCRIPTION OF A DESCRI

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The Summary.

Y Ho is the Lord paramont of Difeases and Nature, 2. Some suppositions, by way of premises. 3. The conclusion. 4. Proved from experiments. 5. The explication of the Pofition. 6. The Lungs the part which first dyes. 7. Why the Author deferted the Schools. 8. The forerunner of miferies to old men. 9. Purging medicaments, why destructive to old men. 10. The testimonies that Physicians give of their own ignorance, Fatall : because too late. II. That Axiome of Phyficians defumed from the use of things beneficiall and hurtfull, worthy their blufhes. 12. Errors of Phyficians. 13. The ground of Paracelfus his inconftancy. 14. The Genealogy of a Catarrh, or Rheume, like an old wives fable. 15. Diseases imputed to Catarrhs. 16. How great calamity arifeth to mankinde from thence. 17. By what means . they make the fick their perpetuall flaves. 18. The ordinary fubterfuge of the Schools. 19. Thirteen Politions. 20 Nineteen Conclusions emergent from those Positions. 21. By a sufficient enumeration of Parts. 22. A Dilemma, 23. Some Abfurdities. 24. Ignorance in the Schools, the fole Mother of

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fus. 64. Those liquid parts, which are not yet made communicants of vitality in our bodies, hold no correspondence with the starrs. 65. The marrow not accountable amongst the liquid parts of the body.



Eafonable it is for us, now to declare, that the large Catalogue of Difeafes, imputed to a destillation of Rbeume, from the head even to the extremity of the toes, with. out any obstacle impeding the descent, is an old wives fable, invented by the common adversary of mankined, on purpose,

I.

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left the Caufes of Difeafes being known, their Remedies might at the fame time be revealed. However it may be, yet at left is it hence manifested, that the Schooles are, even to this very day, seduced by the errors of the Gentiles, in the point of the Generation of Rheume, its defluction, manner, way, matter, means, places, and organs; as also of its Resulfism and Remedies. For false and absurd must that superstructure be, which is founded on an absurd and impossible Principle. For which reason, the vain and ridiculous hope, which is erected upon Cauteries and Fontanels, is in like manner staggered and ruined: as I shall, in convenient place, demonstrate.

Nature herfelfe is the fole Æfculapius of difeafes : and the Phyfician no more but her Adjutant; according to that worthy Maxime of Hippocrates. But the fenfe of that relates onely to fuch difeafes, which nature, by her own fingle power, ufually cureth. But when the hath been to fataly foyled, that the cannot by her own ftrength arife again to maintain the conflict; the Phyfician, elected by the immenfe benignity of the Almighty Lord of Nature, and in whofe balance all difeafes carry the fame weight, (i.e.) are equaly curable (fuch is he, who hath, among a multitude

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of others of the same order, obtained some one Universal Medicine) remains no longer her fervant : but is become her Interpreter, Rector and very potent Lord. Let the name of my Lord Jesu be exalted to eternity, who ever vouchfafeth his munificence to Little ones, abjected in their own humility ! For the Nature of a fick man being the chiefe receiver of Morbifick impressions, and the sensive mover towards the contrary ; the Patient must, then at least, when the diseases entertained become prevalent, yield to their conquering fword, or at best, in the future, live a Calamia tous death, unlesse he shall be relieved and restored to his primitive integrity, by the anxiliary hand of the Phyfician. Yet is it not in the lot of every Phylician, to arrive at Corinth, to afcend to that excellent knowledge: but his onely, who hath the happy qualifications of a Vocation, Election, Exercitation, and Commission. For in the leffe accomplished dayes of Hippocrates, the transcendent virtues of Catholique medicines remained in the darkneffe of undiscovery (and in truth, even in our brighter dayes, they continue but jejune, and eclipfed with prejudice and derifion, amongst vulgar Physicians) upon which confideration, he is defervedly to be excused, in that he conceived the whole businesse of the conquest of diseases to lye upon the shoulders of Nature, as being the sole protectreffe of life.

Again, I have elsewhere shewed, that, even from the first moment of the conception of an Embrion, there is assigned to every peculiar member one Implantate or Originary Spirit, as immediate president and Governour thereof, and another Influent Spirit, deradiant from the heart, as the excicator and affistant of the former; which yet is not determined to perfection, nor individually disposed, unless first fubdued to a qualification requisite by the præparatory power of the Implantate. I have also taught, in another place, that every member enjoyes the capacity of Vegetation, according to the virtue of its peculiar Ferment originally inoculated into its principles; and that, for this reason, there can be no expectance of any transmutation, conductive

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conductive to a new generation, unlesse by the mediation of that Ferment.

And from hence, by naturall confequence, we may understand, that all vegetation is made by the spirits; and that fo all debility of digellion in the members doth depend upon the diminution of the spirits and their peculiar Ferment, according to that in facred Writ : My spirit (the involucrum or conservatory of the Ferment) shall be attenuated and (therefore) my dayes formed. So that a member, which in its integrity affords no visible excrement, must produce a large and conftant fource of unnatural humor, when once wounded, injured, diminished, or impeded in the vigour of its appropriate Ferment. And, finally, it follows from hence, that according to the degrees of the injury and variety of Caules inferring that injury; there mult be generated a difformity and diffimilitude of excrements respectively.

Diseases, therefore, have their origine, not from one fountain, particularly from the Head (from whence the Schools wildly imagine all Catarries to drop down) but from a single Idiopathy, or proper indisposition of every part, superinduced upon the topicall or domestick Ferments. Thus, to example, Wounds, long after their fanation, break forth again, and frequently introduce durable Ulcers, and Apostems : and upon change of Weather, many years after their perfect consolidation, fall into a reincrudescence, and freshly renew their torture. Thus Coughs, Pleurifies, Spittings of blood, and Erifypelous tumors, or inflammations, have their set vicifitudes, and, after considerable intermisfions, reinvade. For some excessive montain Cold, or other Damp fuddenly furprifing, the nightly Aer, marish or uliginous Fog, or malignant Fume belched from the acide bowels of Mines, doth frequently, with one affault, fo violate and ruine the Ferments of the brain, or Lungs, that from thenceforward, during the whole after life, they become the too fertil magazines of various excrements. After this manner alfo in the eyes, ears, teeth, jaws, &c. Excrements (not :

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(not fuch as the mucous or flimy excretions of the brain) are ordinarily occasioned by the irregularity or diminution of the Ferments peculiar to those parts. So Congbs and Aflbmas, or difficulties of respiration first begin : and perfever by a continued Ferment. Not, in footh, by reafon of a viscid Phlegme dropping continually from the head ; but engendered in the womb of the Lungs, by a violation of their domeftick Ferment. For the Lungs more eafily fubmit to the invalion of any forraigne injury, then the o. ther parts of the body : in regard, the Lungs is of all mensbers the first that grows old, decayed, and dies. As is manifeft from the Cough generally infefting old men, and from the rattling in the throats of all dying men, though they perifh by any other difease, and not by affections of the Lungs. For this is proper to the Lungs, in this refpect, that they continually fuck in crude Aer, and being neer to the heart opprefied, lavishly expend their own ftrength, and by reason of that exhauttion, decay much the fooner.

In the first place I diffent from the Schools, becaufe I ver ry well know this kind of vitiofity in nature to belong to the parts containing, and not to the humors contained. For excrementitions humors of this kind contained, are certain productions, which are begotten by the Archem, or vi. tall prefident of the particular parts, depraved by fome noxious inquination precedent.

In the fecond, I diffent from them also in this point, that I fiand affured, that this evill is topicall and primary, and not communicated by Deuteropathy or confent with the head. For the Coughs of old men, which for the plarality discourage all hopes of reftauration, arise from this root; that in the lowest and smallest branches of the Respiratory Artery, or pipe of the Lungs, there doth constantly refide fuch a quantity of excrement, generated in the Lungs, which doth not onely obstruct the tubes or conduicts: but also, by the contagion of its presence, deprave and diminish the Local Ferment; whereupon there is hourly produced a new fource or supply of excrements, as the plentifull

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plentifull maintainance of Coughs, which in men once entered the calamitous confines of old age, are hardly cured, by remedies known to vulgar heads : inregard fuch remedies neither arrive at the part affected, nor, in troth, are they endowed with any reftauratory faculty. These kinds of excrementitious humors, therefore, are no other but tepicall defects of the parts milaffected : and every particular part hath its particular debility, whether innate or acquifite, from a diminution of its vegetative Ferment.

And thus it is evident, that the various streams of excrements flowing from the various parts of the body, are all derived from this one fountain. ¶

On these firm grounds I apprehend, first, That all repetitions of Purgations, in these affections, are frustraneous and burtfull : in respect, they levell their power onely against the productions, or Effects, and not against the Causes; and chiefly because such viscid excrements, feated remotely from the ftomack, are too flubborn and refractory to yield to the laxative operation of Purgers. You may pleas to adde, that although Laxatives may feem to have afforded ease and relief, for a day or two after their use; infomuch as the maffe of crude and inconfected blood in the mezaraick veins being voided by ftool, there must of necellity fire ced the more sparing dispensation of blood through the body, and penury of nourifhment in the Lungs, and by consequence a lesse quantity of excrement be rejected : yet do they, by substracting from the necessary aliment of the whole, and by leaving behind them an evill tincture in the instruments of common digestion, every day more and more infringe the univerfall oeconomy of the body, and impugnethe conferving vigour of nature.

This when Phylicians darkly, as through a veile, difcover, and remain ignorant, that they have afforded no benefit to their Patients, by the exhaustion of the laudable juces of the body, and the diminution of naturall vigour; they at length remit them to the fober rules of *Diet*, and kitchen physick, as the onely hopefull means of their reco-

very,

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very, and so leave them, by the painfull use of Fontanels, and reiterated moderate Purges, to run out their remaining fands, medicaly (i.e.) miferably. By which Concession, first, they infinuate that wholesome and moderate diet is to be preferred to most of those unfaithfull medicaments of the shops: and upon the testimony of their own unhappy experience, conclude, that the Patient ought to abitain from them, as hurtfull, and at best but rarely to be used. Our wish is, that now, after so many destructive exhauftions of fick mens strength, they would fit down contented, and in the future no more attempt, by the fame fruitlesse means, to dreigne the hopes, bodies, veins, strength, and purfes of the fick. At left, I with, that they would be mindfull of their own Axiome, wherein they unanimoully confent, That the chiefest indication of the cure, is to be defumed from the benefit or barme which things already used bave introduced. Which rule, although it be worthy the blufhes of learned men, and onely fit for the conformity of Empyricks : yet, it may be wilhed, that, by the infiruction thereof, they would be reclaimed from the pra-Atice of their former errors, and no longer in Coughs and Confumptions return to those inefficacious remedies, which they have observed, never to have been beneficiall to any. For then would all Purgatives, Phlebatomy, Errbines, Apophlegmatismes, * Lamhatives, drinks of China, Zarza, Saffafras, Cauteries in the Coronal suture, and other deceitfull remedies of the fame order, be wholly layed alide, which are brought into use by Phylicians, that they might not appeare to have r ceived their fees for nothing. It is also to be wished, they had suffered themselves to be instru-Red from their own practice, that while they pointed their endeavours directly against the Ablation, Revulfion, Derivation, and precaution of fecundary Effects, viz. the Excrements wept from the injured Archem of the particular part : they at the fame time tacitely confessed, that they neither underflood their originals, nor fet about the Cure of them, according to the just method of beginning at the remove

II.

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*Errhinum est medicamentum, quod naribus inditum, ex cerebro, fine sternutatione, humotes & præsertim pituitam evacuat.

* Apophlegmatismi sunt remedia, quæ in ore aliquandiu detenta, ejusque cavum lenter ferientia, per emissaria palati, copiosam pituitam è cerebro deducunt; quæsensimpostea frequenti sputatione facilè excluditur.

concurning Defluxions.

of their primary Causes. And they had farther discovered, that a medical Course of Diet, is but a wild, languid, invalid and indeed desperate kind of remedy; and Kitchen Aphorismes too contemptible a militia to encounter so formidable an Adversary, already entered upon the borders of life, and ready to diffolve the discordant Harmony of the whole Composition, by the generall diffusion of its tyranny. No wonder therefore, if the Common people, observing the vanity of such Cures, have taken occasion to create this proverbe, The best physick, is to take no physick.

More then once have I lamented, out of a deep Commiferation of the hard Condition of man, while I read over whole Centuries of the Councels of Phylicians, and chiefly their Commentaries on the 9. Rhaf. ad Almanforem, where they run over all diseases of the body, from the Crowne of the head to the fole of the foot; that digging into the Center of each difease (as they believe and glory) and there exploring the Grandfather, or procataretick Cause thereof, they ever and anon lay the blame on some one singular distemper, either naturall or acquired : but yet with fuch a referve of uncertainty, that they dare not precifely determine, whether they ought to account that distemper for the difease, or onely for the Antecedent Cause of the disease, about which they Confult. But to prevent mistake, and to be fure of the right, generally in all infirmities they accuse both beat and cold. For example, in most, they cry out upon a Frigidity of the ftomack, either folitary, or combined with an excellive Heat of the Liver ; whence they foretell Catarrhs to be engendered, and ma: ladies of those parts, upon which such rheumes shall be rained downe: and this hint they purfue unto the exploration of the nature not onely of very many Internall, but alfo of most External and Cutany defects. And with fuch Theorical and Prafical decretals do the schools season the brains of their Disciples. For thus are infirmities of the eyes, ears jawes, tongue, teeth, cheft, arms, loyns, and thighs, charged upon the account of Catarrhs. Thus have

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have Coughs, Confumtions, difficulties of respiration, Pleurifies, Inflammations of the Langs; Apoplexies, Palties, Inddain Deaths, Impostumes, Spittings of blood, found their pedigrees deduced from Distillations. Thus finally, is the flomack infefted with Vomiting, Naufeounesse, dejection of Appetite, and debility of Concoction: as allo the Liver and Spleen become milaffected. For crude and indigeftible Phlegme being dropped downe from the retort of the Head, Obstructions, Hardnesses, Dropfies, Apoltems, Schirrous tumors, Fevers, torments of the bowels, Scc. are listed under the conduct of Catarrhs.

To which Epidemick tradition of Catarrhs, Paracelfus, though otherwife above modely triumphing in his invention of Tartars, and the 3 first Hypoftaticall Principles, * doth * Princ pia frequently subscribe, and alwayes openly acknowledge the Hypoftatica name of Defluxion (fusser) staggering into self-contrafunt, que majori vi ac efficadiction, under the drunken guidance of that great Lady, sia præ reliquis Incertitude. pollent; unde

And this fabulous scene of Defluxions, which indeed is very well worth our ferious tears, do the Schools fo polifh meticaCheironia virilia, virtuoand trim up, and deliver from hand to hand down to postesulphur, rity; that it now dares plead prescription, and usurpethe facred dignity of truth : yea common Idiots, by their own Mercurius, O infirmities made paffive Phyficians, tire my ears with a tedi-Sal. Saleft prin cipium bypostaous lecture of their Catarrhs. Whereupon, fince it is a taske ticum, cum vi fermentandi & extremily difficult, and fuch as my Genius abhorrs, to root out a cultomary doctrine from the minds of men unaccoagulandi. Equainted with more rationall wayes of learning, and in the place thereof, implant the feeds of folid truth; chiefly when eft, ut intrinfevulgar heads are of that temper, that, like new veffels, they metallorum in-

ftar of fixus : ex trinsceus autem combustibilie et meinerabilis. Sulphur principium est hypostaticum, cum vi maturandi, tingendi, homogenea attrahendi, beterogenea repellendi, tendendi a centre ad circumferentiam, & vicissim. Hujus siguatura est, ut intra sit fixum, oleagino sum sive pingues extra inflammabile effe & fugitivum. Flamma quippe est Sulphur volatile. Mercurius est principium hypostaticum, cum vi vegetativa et instaurativa. Hujus signatura interna est fovere ignem potentem : externa vero est liquidum, glutinosum, incombustibile & frigidum esfe. Joh. Raicus tract. de podagra. hardly

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in Schola Her-

la dicuntur,

jus signatura

cus sit fusilis,

concerning Defluxions.

hardly part with that odour, wherewith they were first feafoned : it is my cuftome, even among perfons of honour, to affect filence, not to preach upon the difeafe, or its Gaufes, feveral kinds, and remedies; but quietly concealing my detestation of the case theory of the Schools, and diffembling an ignorance of all, go away as confenting to whatever hath been faid. Yet, in some places, I adventure to leave a hint, that I am otherwise instructed, that Fools are not constellated to a capacity of medicinal Principles, nor my felfe to be their Pædagog. At best, I cannot but admire, that no man hath hitherto, after fo long a revolution of time, ever discovered, and made animadversions on the palpable and Superlative ignorance of Phylicians: but that the grey-haired dreams of the Grecians have drawne the whole Christian World after them, into a fervitude, * that is ridiculous, * Vocabulum lying, and pernicious to humane fociety. To particular; bic ab authore they generally conclude that the head from whence their Nilus of Defluxions doth originally fpring, is a Cold Diftemper of the ftomack, and an bot diftemper of the Liver : and nedum cultum that the greatest part of mankinde is in subjection to this divinum, quo tyranny. The manner of its generation they deliver thus ; fenfu legitur a-That the stomack, incessantly, during the whole all of Concoltion, pud Job. Evan-receiving an accesse of immoderate heat from the Liver, must of Natpice, most. necessity, all that while, send up whole clouds of vapours into the braine : and that by reason the brain is, by its native temperament Cold, and fet, like a cover over a boyling pot, or the head of an tutem, justa Alembick, in the bigheft region of the body; all those vapours that afeend into it, are againe condensed into Water ; Which, fince ac. cording to the propenfity of its nature, it must tend doconcoards, doth afford an ample fource to distillations, and a generall main. tainance to most difeases. That if this torrent fall down upon the co illud provereyes, ears, palate, teeth, e. those parts have very good reason to bewaile, and with plenty of rheume lament their unkinde destiny, ev, tempori ferin being fo neer neighbours unto, and lying within reach of this vire. syrant, the Brain : but if upon the Lungs, it is quickly the inevitable occasion of Coughs, Difficulties of respiration, and in fine of Confumions, of palpitations or tremblings of the beart, and fo of C 2 immature

H'urpatum, eft Latria; Narpela autem exprimit pereir my Bico : aft etiam ferviillud Sophoc. in Alace, Sias Na-Beids and Ers CHAN TREPET I. C. Blas Sourfars: bium Phosylid. Kaspe harpeu-

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immature death. But if the stream be turned upon the stomacks then doth the stomack suffer the just punifoment of its former di-Stemper, by admitting debility of Concostion, Crutities, Vemits, Orexies * or infatiate Appetites, Swennings, fainting Pains of the mouth of the fromack, Obstructions, Laskes, durable Fluxes of the belly, violent ejections of Choler upward and downward, fits of the Colick, Atrophies, or universall lean ffe from decay of Nutrition, Dropfies, Schirrous tumors, and all other di aviditate, ra- defects of the instruments officiall to common Digestion : yea Febidam facturus vers, Putrefactions of the blood in the veins, as also stones of the Spleen, * Kidney;, and Bladder, bave their ordinary materials quandog; in Li- from the fime of this Defluxion. That if these rivulets creep inene reperiuntur, to the inmost closets of the brain, then suddsin death, Apoplexies, materia bactar- and Palsies immediately ensue: but if in the hinder part of the tarea longa die bead, by the neck they chance to mander into the Nerves, Arteries, and Muscles, then must Gouts, Palsies, Pleuresies, and Convulfions of the receiving parts, unavoidably be introduced: yea all nativi coagula- Chirurgicall defects, as Pains, Apostems, and the numerous protionis princi- geny of Ulcers, do they father upon Catarrhs.

That if this deluge be not evacuated and dreigned by some of the forementioned fluices, but becomes a standing pand, from whofe oppression the brain is not able to deliver it felf, neither by the Aquaduits of the nostrils, nor the laborious pump of Coughs: Ob ! then instantly follows, a stupid drousinesse, an inexpugnable propenfity to out fleep Endymion, * Catoches, a Letbargy, Verti-* remitte ocu'os go, Apoplexy, loffe of Memory, and perdition of Sences.

For besides these forementioned distempers of Heat and Cold, and Defluxions necessarily refulting from thence; the Books, Orations, Councels, Conversations, Chairs and Practices of Phylicians found of nothing : and fo the whole bulk of the Art of healing, feems, now a dayes, to be moved upon the flender hinges of Purgations; Phlebotomy, Scarifications, Baths, Sweatings, Cauteries, and, in thort, upon no other then the diminutions of firength, and emaciations of the body, or exficeations of Rheumes.

To which end, they impose upon their Patients, the decoctions of the roots of China, Zarza, and the wood of Saffafras,

* opiEis, cibi

appetentia proprie dicitur; quo Jen'u et Juvenal. usurpavit pro vehementi edenorexim. * Calculi en m in e dem coacervata, & ratione interni or pil, in lapideam indurata duritiem. Hi autem ante mortem vix deprehenduntur, et medisinam (pciad'pag. 68. in tract. de mag netica vulner. curat. O ibi fuse explicatum invenies, quid apud medicos defignatur per Catochen. 16.

concerning Defluxions.

Saffafran, brought from the East-Indies, upon designe of drying up the luxuriant moyslure of the brain: for the most part measuring the extent of the Pharmacenticall and Distetical Theory, by the rule of Heat and Cold.

And by this means, they never release the fick out of their hands: but perpetually oblige them, like purchased Bondflaves, to the irksome observance of their Precepts; though with manifest despair. In regard, while Physicians remain ignorant of the fundamentals and Canses of the difease, and by the light of their own unfuccessfulness read the vanity of their Operations, they must stand convicted of the impossibility of the Sanation: upon this ground, that the naturall Frigidity of the stanation: upon this ground, that the naturall Frigidity of the stanation the Heat of the Liver; and so those remedies which would be beneficial to the flomack, must prove offensive and dangerous to the Liver, and so transpositively.

All which impostures, fince they confpire to the extirpa-18. tion of the race of Adam, to the defolation of Commonwealths, and utter oblivion of familyes; I could not but think it my duty (what in me lay) wholly to fubvert and difmantle this exfectable herefie of medical Doctrine: and fo much the more compulsion had I upon my conscience to attempt it, in confideration that this Pestilence hath possesfed the heads of our Europeans, ever fince the dayes of Galen, * Proprio dida-untill now. * For rich men learn this Doctrine from the Etro, inquit Helcoffly distates of their Purfes, and what they have learnt, montius; Stthey foon communicate to others : and thus all difeafes Saurgov enim have their stories written in the monstrous Romance of fonat idem, quod minerval Defluxions. Against which I shall declare, by Positions granlatine, live præted in the Schools. mium doctrine.

1. The flomack of man, during life, is actually Warme, and its interior membrane or Coate bedewed with a certain moyfure.

2. And impossible it is, that any aquous bumidity should be actually seething in the body, and not at the same time fend forth plenty of Vapours from it self.

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3. The fuperiour way from the ftomack, is the Gullet, or oefophagus, being a membrane round long and hollow, as a Pipe or Cane, extended from the ftomack even up unto the jawes, and in fubftance the fame with the interior Coate of the ftomack.

4. This Gullet, by the privilege of its native constitution, is ever actually moyst, and constantly (except at times of swallowing) actually fout (otherwise, distorted in avoydance of a Vacuum, it would laterally fall together, no otherwise then a bladder that wants some guest to fill its Cavity :) and the fides thereof mutually meet and touch each the other, by the compulsion of that necessity of Nature, which forbids a Vacuity. For the Gullet containg in it, neither meat, drink, nor aer, would of necessity be empty, should it remain open. But that it is not open, is evident from this, that otherwife, at the fwallowing downe of every morfell of our Diet the Aer, which would be beneath the morfell, and oppose the defcent thereof, were the morfell proportionate in gravity to the remittency of the Aer, must be rammed downe into the cavity of the flomack ; and fo there must follow for every morfell fwallowed a Belch, or redischarge of that aer, by the superior outlet of the stomack. Finally, fince the membrane of this Gullet is always moyst, the fides thereof would of necessity fall together, if not diffended by fome force: which is never observed in the diffections of dead, nor could be of any use in living bodies.

5. The mouth of the ftomack is fhut up by a Natural motion, and not by a Voluntary.

6. And Anatomy affords no other knowledge of the Gullet, more then that it is narrow, lockt up beneath by the Pylorus or inferior orifice of the ftomack, and in the neck of man on all fides comprefied by very many veffels circumjacent.

7. The Gullet neither fucks in, nor containes any Aer: for by reason of its proper motion, naturall to it as a mouft membrane, and want of any body to distend it from within, it falls together on all fides.

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8. The Gullet is not opened longwayes, but during the descent of Aliment. Which if very dry, makes a stand in the passage, nor easily descends, unlesse driven down by liquor superadded : which could not be, if the Gulles contained aer beneath the morfell, unlesse there followed a Belch upon the deglutition of each morfell. Yet the top of the Gullet, about the Larinx or head of the wind-pipe, is commonly open.

9. The lower end of the Gullet is contracted by an aliene power, and is therefore never opened but by the violence of fome aliment or other tenent, either entering into, or expulled from the flomack : Or upon the knocking of Hun. ger, it may be unlocked by a strange key, i.e. not by its own motion, fince the bumidity of its fides naturally disposeth them to Concidence, or falling together.

10. No Aer, and much leffe Vapour, arifeth out of the ftomack, and alcends, without giving the loud report of a Belch.

11. Though that heat, which is neceffary to the ftomack, immediately cauleth the exhalation of vapours : yet it follows not, that the fame heat fhould protrude those vapours upward, with fo great violence as is required to break open the dore of the flomack, being fast lockt, and diftend the Gullet, fince any one of these contradictory These being conceded, it will be a genuine inference, that every man must be troubled with continuall belchings.

12. In the ftomack, as in all other veffels moderately hot, every watery vapour doth fooner, upon the left comprefion, return to its primitive confistence, and unite again in drops; then to be of power sufficient to elevate and distend a closely compressed membrane of confiderable magnitude. Where we observe, by the by, That Vapours are not the Caufe of Belchings : but onely the Gas silvestre, * or a certain Wilde * Gas bifurca-(pirit exhaling from fome aliment.

tum, ab Helmontio nostro

fabricatum inveni : primum scilicet Aqux, sive Meteoron ; secundum fylvestre. Gas Meteoron designat Aquam, in vaporem, per geniale aeris frigus (ubi omnia eo semel deducts confumuntur, & in pristinum aqua elementum retroce dunt) resolutam. Quinam vapor alterites Htique

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utique fortis eft, quam vapor per Calorem suscitatus : eo itaque re pectu, paradoxi licentia, in nominie mage convenientis egestate, halitum illum Gas nominavit Auther, non longe à Chao veterum fecretum. Gas autem fylvestre, est spiritus quidam nature hominis plane bostilis, alque à primoribus nondum cognitus; qui nec vasu cogi, nec in corpus visibile reduci, nist extincto prius semine, potest. Corpora enim continent hunc spiritum, & quandoque tota in ejusmodi ferum halitum abscedunt : non quidem quod actu insit ipsu (siquidem detineri non poffet, imo totum concretum avolaret) sed est spiritus concretus, & more corporis coagulatus, excitaturque acquisito Fermento, ut in vino fermentante, omphacio, pane, by dromellite, itemque ruber ille ex Chrysulca operante eructatus : vel additamento peregrino, ut ex auro, adjecto fale Armeniaco : vel tandem per aliguam Dispositionem Alterativam, qualis est Affatio, respectu pomi. Hujus autem ignoti bospitis tum ortus, tum hoftilitatis atque implacabilis ferocia, qua nobis insidiatur capitaliter, exegest ulterius paulo inhærendum : ea potissimum relatione, ut nedum Quidditas atque Nativitas hujus Gas innotescant ijs, quibus contigerit nondum omnia Helmontij mysteria perlustrare; sed etiam ut istud epitheton (sylvestre) noz incongruenter illi appensum commonstretur. Primo itaque quoad ellentiam ejus quidditativam ; meditare , turpiter admodum effe delusos qui credidere Gas uvarum est vini spiritum in musto. Gas enim uvarum & musti, ex fermento ebullitionis concepto excitatum, est tantum in via ad vinum; non autem Vini, in sua jam dignitate constituti spiritus. Intercedens enim inter utrumque Fermentalis Dispositio, rem præcedentem disponit in sui transmutationem, ut inde alud ens fiat. Siguidem extra dubitationis aleam eft, omnem transmutationem formalem præsupponere Fermentum corruptivum. Secundo, quoad Nativitatem Gas in uva; nota. Vva ille sa affervatur & exficcatur: si vero pe'les ejus semel fuerit disrupta, & vulnerata, illa mox fermentum ebullitionis concipit, bincque transmutationis initium. Vina ergo Vvarum, pomorum, baccarum, mellis, itemque flores & frondes semel discerpta atque contusa, fermento arrepto, bullire ac ferve e incipiunt; unde Gas. Ultimo, quantum ad ejus Malitiam ac feritatem attinet, venopoli sciunt, vinorum Gas, si multa vi intra caslos coerceatur, vina furiosa, mala atque neciva reddere. Quapropter & morbidum Gas, woa affatim comesta, pluries ægritudines anxias consitavit. Siguidem Fermenti spiritus tumultuantur, & cum digestioni noftræ sint inobedientes, spiritui Vitali je per vim affosiant, imo si quid sudore tenus excerni sit paratum, id soa ferme iti aciditate grumescunt, atque infignes pariunt moleflias, tormina, diarbæas, dysenterias. Sed Etymi Gas explicationi satis Superque hattenus in sudatum.

> 13. That granting a Natural spirit of the yet imperfect blood in the Liver, all the veins, by reason of their constant heat, would either about the parts of the Liver, or in their capillary branches, generate Catarrhs, which the Schools have baulked in their hunting of difeafes.

The Conclusions erected on the premised Concessions. ¶

FRom these Positions, confessed by generall Confent, and demonstrated by the ocular evidence of Anatomy, it naturally follows, in the first place

1. That no vapour can alcend from the flomack to the head; and the materiall Caufe of Catarrhs, vulgarly believed, must faile, and the very groundwork of the doctrine of Defluxions be demolished.

2. If so great a mist of ignorance hath surrounded the world in things manifest and obvious to the observation of sense: what Cimmerian blindnesse may not be suspected, in the common theory of such things as lye more deep and abstrusse, and therefore have their Causalites onely discernable by the opticks of the most acute Reason?

3. That fubmitting our beliefe to the doctrine of the Schools, a bealthy and bot flomack would generate more and greater flowers of Catarrhs, then an unbealthy, weak and cold one; which is point blanck contratry to the opinion commonly embraced.

4. That, in order to the Cure of Defluxions, according to the confequence of their theory, we ought to endeavour the Refrigeration, rather then the Calefaction of the stomack.

5. That all men would of necessity be equaly obnoxious to Catarrhs, and so continually infirme.

6. Upon this ground, that all men have their Gullet, . Brain, and Stomack actually hot, equaly moyft, and conflicuted in the fame Figure.

7. That every man would naturally, like fwine, belch at every flep he treads: fince the indefinent beat and moyfure must unavoydably transmit continuall Clouds of vapours from the flomack.

8. That although we should descend to allow, that a vapour exhaled from the stomack might be of force suffici-

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ent

* Avernus, Gr. * Aogvos, quo nullæ aves accedunt, ob tetrum ejus odorem: propter quam graveolentiam, etiam bîc defcenfus ad inferos olim effe cretebatur.

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Gas Sylvestre.

ent to diffend the Gullet; yea and be evaporated without ructation : yet would it remain of exceeding difficulty to inter an apprehension, that this vapour would not sooner be discharged by the annexed and open tubes of the mouth and noitrils, then make a long and difficult progreffe up to the brain, by the narrow Meanders and blockt up avenews of a membrane. That this Vapour, steaming up from the furnace of the ftomack, would neceffarily carry along with it a fullome Hautgouft of the meat then fuffering the act of Concoction, by the variety of ungratefull odours acquaint the nole with the unfavoury ftory of its various mutations, and be horridly offensive both to our felves and company : and thus if all those frequent belches were thus ftrongly perfumed by Corruption, our very breath also, continually blasted with them, would save us the trouble of forreigne poyfons, disparage the fatall emillions of the Batilisck, and be as dangerous to Conversation, as the fumes of the Lago di Tripergola * in Campania, or the fulphureous farts of our Grandmother, when delivered from the Colick, by the Cris of an Earthquake.

9. That lince the Materiall caufe of belching is a nimble Wild spirit, arising for our Aliment, and far more subtil then a vapour; but yet doth never invade the Brain, unlesse, upon shutting the mouth, it chance to advance to the forepart of the head, through the funnell of the palat, and be thence exploded by the nostrils : assuredly, much lesse can vapours, that are more grosse and corporeal, ascend so high as to insinuate themselves into all the narrow creeks and intricate Cells of the brain.

10. That these volatile and fugitive spirits, the causers of rustation, are never carried in a direct path, up to the region of the brain; but in an oblique, leading through the organ of smelling: and therefore they never afford an odour, or become subject to the perception of the odoratory nerves, but when the mouth is shut, at the instant of their eruption; much less can a vapour from the stomack, by its own spontaneous motion, arrive at the remotest closets of the brain.

II. That

11. That though we condificend, that *Vapours*, the material caufe of *Catarrbs*, may in fome degree arife up to the head, at leaft to the organ of fmelling : yet can we not conceive, that this can happen, but when the mouth is flut ; and fo whoever gapeth, can never be infected with *Defluxions*, and by inference, to keep the mouth open, at the time of ructation, is a most easie and infallible precaution of the generation of rheums.

12. That fince two bodies cannot fo far rebell against the conferving Laws of Nature, as mutually to penetrate each the others dimensions, in one and the same place; and fince the passage from the jawes up into the brain is exceeding narrow, oppleted (for there is no vacaity in those organs) barrocadoed above and so impervious (for our very breath, though violently compressed by stopping of the mouth and nostrils, cannot force open a way into the cattle of the brain:) therefore cannot a vapour, arising from the stomack, approach the basis of the brain. By example, a Came or hollow Tube, that is closely luted in the upper orifice, held in an erect position over a steam of hot vapours, doth not admit them to ascend through its perforation, by reafon of the Aer, where with it was before possed.

13. Granting, that a vapour may clime upwards; yee would it not meet with any Plane or Coneave, upon which it might, by Condenfation, be reunited into drops: and much leffe any part of fuch figure, which refembleth the head of an Alembick, or Pot-lid. But in the bafis of the brain, whether we gratis allow a vapour to alcend, is a narrow place, called the Pelvis, or brain tunnell; which fendeth two fmall tubes, or outlets, toward the nofirils, and as many backward toward the neck. Which two posterior cavities onely could the alcendent vapour infinuate it felf into; and those two are ever repleted with a muccous or viscid excrement, and perpetually, by a kind of guttulous diffillation, difcharge it down into the Palat, as the proper Emanstories or dreignes of the brain, defined to the evacuation of the flimy redundant humors. And therefore albeit we concede; that a va-

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pour can ascend so high: yet neverthelesse can we find no place for the Concretion of a Catarrh.

14. Should a vapour, if the exhalation of any fuch from the itomack be pollible, alcend to high as this liender Tunnell of the brain; yea fhould it, in to finall a place, be condenfed into *beume*, and that theume drop downe again to gether with the *Muecus*, or indigenary excrement : yet would it prove of much leffe offence or danger, then that *muccus*, the ordinary excrement of the brain. All which the *Shooli* themfelves have by *Anatomy* difcovered, and may (pleas them to fuffer the eatie trouble of a ferious penfitation) affuredly know to be inevitable: but, alas! they have eyes, and fee not; they have ears, and, we may juffly feare, they will not hear.

15. That although the material Caufe of Rustation be the Gas of our aliment, and impregnated with the particular odour thereof: yet the vapour of any meat whatever is converted into no other, then an infipid and barmleffe Water. By example, let any flimy juice, or spitle be artificially diftilled, in any vessel, by a most gentle heat, exactly proportioned to the same degree, which is in the stomack of a living man: yet, undoubtedly, shall you draw off nothing, but an infipid and thin Water, wholly devoyd of the least glutinosity; and less any falt, acid, or sparp Catarrb.

16. That albeit the *muccus*, or phlegmatick excrement of the brain, fall down upon the jawes, and frequently introduceth various milaffections upon them, according to its various indifpolitions or deflexions from its naturall confitution: yet neither the *matter*, nor defluxion thereof can endure the reafon of a Catarrb; no more then the Urine, drop by drop trickling down from the kidneys into the bladder, ought tobe efteemed a Catarrb. Wherefore, if this *muccus*, whether *infipid*, falt or fbarp, whether fluid or thick, drops ping down upon those parts, which, as peculiar Emuneatries, are naturally ordained to the evacuation of it, may not be accounted a Catarrb, however evil Accidents it impresse upon those parts; fo neither the urine, though it deprave the integrity of the bladder. 17. How

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17 How much leffe ought the defluxion of any ficticious humor, or imaginary excrement, whole nativity and transmiffion are delivered to be by a manner, means, places, and voyages, naturally impossible, to be accounted a Catarrbit

18. If the Brain, while it enjoyeth the influence and irradiation of vital beat, be not actually c Id : without doubt, the reason of the Condensation of vapours into rheume, mult be staggered into an impossibility. But if it be, by some degrees, leffe bot then the other parts of the body : mult we then be driven upon this absurdicy, that a vapour doth, as if endowed with sense and an arbitrary power of Election, enquire out and pitch upon the coldest part, as most accommodate to its future reduction into a humor ? because, by the dictates of naturall propenfity, it rather defires by chagulation to be returned into its primitive, then by refolution to continue in the presen condition?

19. Or is it driven on by the crowd of other vapours, and on all fides recoyled from the botter parts of the body, up to the brain, as to the coldest ? if fo, there would be a con: tinuall tempest in the soundest bodies, and nought but Lepanto Gufts, and Catarrhs in the best temperd heads : which to believe, is a madnesse beyond the power of Hellebor, and a dotage too abfurd to be excufed by the largest candor.

20. But laying alide these Positions (which can, upon no neceffity of nature, be verified) as worthy onely a (hore confutation; we come now to prove, that should all the demands of the schools, hitherto mentioned, be freely granted them: yet could they be of no advantage, as to the manifestation of the Cardinal point in controversie, viz. the manner, reasons, and wayes of the Definition of Catarris.

21. For first these rivulets of rhenme cannot make their progreffe to the outward parts of the head, betwixt the skull and skin : fince, indeed the Schools themselves declare, that Vapours, the Antecedent matter of Catarrhs, do mount up from the Stomack to the Basis, or lowest part of the brain, and there fix upon a Plane (imaginary, nor ever yet difco. vered by any Anatomist) in whose lower superficies they instantly

initantly enterprize condenfation, and then, immediately after concretion, be rained down, like a malignant milldew, upon the members fubjacent. Far dillant, in fober truth, from this, that this forreigne adverfary, this meer excrement, an obfcure alien to the brain, and fole occasion of fo many and incorrigible infirmities, having in the lowelt Plane of the brain transformed it fell into Water; should thence either penetrate through the very fubstance of the brain, in the groffe difguise of Water: or at length return again to invest it felf in the thinner dreffe of a vapour, and wantonly take up quarters in the forementioned Plane.

22. Not in the form of a vapour; for if a vapour flying up from the flomack, arive at the bottome of the brain, and by the native cold of that part be concreted (as they fay) into Water: beyond all difpute, by reafon of the fame opportunity of cold, it will continue Water, nor ever in that place be reduced back into a vapour again; untill Nature her felf run mad, and fall upon contradictory operations, fuch as fhall out do the confusion of her primitive Chaos.

23. If therefore, this Vapour be once changed into Water, by the inevitable activity of local Cold, it is too hard for the most incircumspect credulity to be perswaded, that this Water, of knowne hoftility against the native oeconomy of the head, should be kindly invited, nay gredily drawne into the most fecret and other wife inacceffible closets thereof : much leffe that it can attaine fo great thinneffe and subtility, as, notwithstanding the relistance and compressive endeavours of non admission made by the parts invaded, to pierce through the very body of the Brain, its Membranes, Sutures, Skull, and Perioftion, or coate environing the skull; then ftop at the weaker counterfcarfe of the skin, and there, begin its defluxion. And, belide many other inevitable absurdities, this Water can be at most but a kinde of Rain mater; and therefore wholly unfit to be made a source of viscid Catarrbs, whofe duration depends on their glutinofity: yea Catarrhs arifing from this aqueous originall, would, upon the first accesse of heat, vanish by transpiration, fooner then the

the thinnest fweat; unleffe the Galenifts can thew, how way ter made of vapours exhaled from the ftomack, doth for ever after become fixed; as alfo, that by touching onely upon a certain Plane (which the diffecting knife hath never yet lighted upon) in the head, it doth acquire a falt and fbarp tincture. Again, the skin furrounding the skull, being far more rare and porous then the skull (through which it is allowed to paffe, by transudation.) must, according to the rules of probability, give way to the extermination of this. water, either by insensible transpiration, or by foreat, much fooner, then imprison it fo closely, as to force it. by feeking other vents, to introduce those various maladics vulgarly imputed thereunto. To which we may adde, that the skin obtended upon the skull, doth most closely and tenas cioufly adhere unto it; nor can the fingle declivity of the place suffice to the diffusion of the rheume, and the violent avulfion of the skin from the bone. Moreover this Water, generated of vapours fleaming from the flomack, ought, of unexcufable necessary, to have fome internall Pulfor, or Driver, to ram it through the substance of the brain , membranes, skull, and perioftion. But this driver must not be beat; for then would it cease to be Water, and in a moment, re-affume the confiftence of a vapour : which is wildly imagined to be condenfed into water, by the frigidity of the brain. Further, Catarrhs are observed to be most frequent in old and infirm bodies, and Climates most infected wich 'ald : Wherefore this driver, in all probability, mult be Culd, (which fober Philosophy affirmes to cause a Constriction and faitnesse in the parts) whose buinesse is to protrude this water through the brain, and in footh in the groffe form of Water ; contrary to the ordinary energy of naturall qualities. And this impulsive force must be eicher in the Water, bred of meer vapours fuming from the ftomack; or in the brain, by which it is compelled, together with its membranes and skull, to open at the advent of this Water. Finally, fince this kind of rain water, made out of condenfed vapours, is conceived to hang in pendulous manner on

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the lowest superficies of the balis of the brain; nor can be there deteined in any quantity above a drop or twain, at most (for the narrownesse of the Cavity forbids the admiffion of more) it must necessarily, either immediately fall downward in successive drops: or the brain must constantly play the spung, and *imbibe* it drop after drop, so fast as it is condensed. Moreover, this excrementitious Water ought to have, besides the forementioned Driver, a Conductor, which may distend the skin, and in order to the generation of the Pleurisie cause an avulsion of the membrane lining the cheft from the ribs, as an Harbinger to prepare a lodging for it : and as well this Conductor, as Driver, ought to be of far more power then our own indigenary Blas.

24. I shall at length expose at any rate, to common fale, these impostures and delusive dreams of the Schools: that no man may, the vizard of vulgar credulity being at the fame time detected, longer fuffer by the unfortunate purchase of falle wares. Nor could I hitherto fufficiently admire, how the world could be fo groffely circumvented by the tradition of Catarrbs: in a butineffe, I fay, fo foolifh, vain, and altogether impoffible, that men, the Charter of whofe Creation doth entitle them to Reason, should thus profitute their credultities to a Legend of Absurdities, nay absolute Impoffibilities, and forfeit the dignity of their transcendent endowment upon the fingle feduction of onely one idle fault, namely Ignorance. That they upon their lazy and indirect disquisitions, not finding any Caule, on which to charge their large account of difeases, have imposed upon the implicite beliefe of vulgar heads, drowned in a deluge of flupidity, these ridiculous fictions of Catarrhs.

^{25.} But the *fireat*, at leaft, is impregnated with a mani-^{*} Latex, apud feft falme fe; upon which hint, the ^{*} Latex, or Fountain of feft falme fe; upon which hint, the ^{*} Latex, or Fountain of ferous fireams in the body, might with much more plaufible reafon have been adopted to the generation of Rheume, as being a very convenient mother to own fuch a production : this contendit, eft them an imaginary vapour, which requires to be conducted idem aquo us lithrough fo many infentible ambages, and blind Meanders, quor, quem fa-

and whole pollibility of existence cannot be afferted, without the joynt concession of a thouland ablurdities, and bold violations of the unalterable decrees of Nature. For the accustomed faltneffe of the latex, may bear the imputation of being the Caufe of Pains and other erratick accidents, with neerer relation to verifimility; then an infipid Water, transmitted upwards from vapours, which have no real Idea, but in the dithis Fable. Again, when this Water hath travelled through the Brain, Membranes, Skull, and Perioftion, doth it then grow weary, feeble, and unable to continue on its progreffe, and penetrate the eafler perforations of the skin? or hath the former laborious pilgrimage fo refracted its power of tranfudation, and impaired its memory, that it hath forgotten the way? Why doth the skin, which by reason of its numerous evaporatories, or capillary porofities, is ordained to transmit the groffer matter of fwear, relift the tenuity of that through the impervious skull?But thould this Water be once colleated into a pond, under the fealp; then would it either there fwell

guini ubique per omne venofum genus aretifime affociatum, fcholæ nominarunt Serum ; illumque tam uring, quam sudoris pariter atque lachry" marum communem fecere materiam. De boc pecultarem, et nostro quidem judicio sufficientem librum, cui inferiptio Latex Humor neglectus, panxit Helmont : quo plane oftendit, ingens ab ipfa etiam natura positum effe, Inter utinam O laticem, quem frequenter extravenato sanguini innatare cernimus, discrimen; tam quoad materiæ effentiam, quam ulus utriusque sive destinationes. Scopos autem sive fines, quibus inservire voluit Laticem, brevi verborum ferie fic comprehen-I. Latex, ex sua natura pene insipidus, dam. pro primo (copo babet, ut contemperet cruoris aciditatem, eandemque arceat ; es potissimum post stracted imaginations of either labores, aftus, sudores perfusos, balnea, erc. nam the Contrivers, or Abettors of intanta perspirabilitate cruor valde condensaretur, nift baberet aqueans partem admixtam pro (udore. 2. Cum in omni crudiori abylo, cremore, & cruore, fit aliquid excrementum; & cruor sub digerendo falem excrementitium referect, cliam dum in purum alimentum convertitur : estipsi proin Latex opportunus focius, qui in ferecipiat hunc Jalem, eumque everrat. 3- Ut materialiter causet, ne ullum densioris compaginis residuum, in ultima alimonia evaporatione remaneat : Sed fimul per Diapnæam explodatur, vatione Fermenti arterialis (ut Helmont in Blas Humano) vel ratione sudoris eluatur. Sudor namque materialiter, nil nift Latex eft, cui accessit Sal super fluus. 4. Cum oculus liquore opus haberet, ut ejus palpebra innocue moveretur, O lingua faliva (quit, ut masticatos cibos madere temperaret ; abjurdumque foret, totum cibum è massa cruoris bumu Etari : idcirco per venas Latex delatus eft, unde faliva, lacryma, oc. fierent. Nam dum in Anginis, & infami Mercurij falivatione, plus justo faliva profluit, alvus confueto ficcior evadit. Latex ergo in cruoris maf-Water which hath fo nimbly run sa innoxius vagatur, ad loca opportuna defertur, difiributive facultati prompte auscultans. 5. Quod fue madere compessat, ne pulmo de biscat, ficcitate Ad ipfius autem Authoris libelaeris attracti. lum resurrent studiosi, ubi omnium de hoc themate uberiorem doffrinam habebunt.

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into a tumid Cataract, or be dreigned downward in a flender thread of successive drops : or were the collection about the temples, it would foon become fubject to the discovery of our touch : and should it be rained down, yet could it not avoid to infer a manifest Tumer of infipid water, upon the terminus ad quem, or part recipient. And if in small quantity, it would soon be discussed by sweat. However, it can never fall down upon, nor be congregate amidst the Muscles ; fince each of them is strongly guarded by the outwork of a particular croffe membrane, wherewith their fubstance is immediately covered. Belides, there is neither way for its defluxion from the head, betwixt the skin and perioftion; nor place to entertain it amongst the intercostall Muscles, in order to the generation of a Pleurisie. For can that insipid Water, which occasioned no pain or molestation, while it remained under the skin and hair of the head, within few minuts after its arrivall at the intercostall Mufcles, kindle a violent Pleurifie, together with fuch intolerable torments ; and onely by its descent and fingle gravity avell the Pleura, or lining of the thorax, from the ribs, which is firmly annexed and immediately adheres unto them by the mediatory ligation of numerous folid Fibers ? Certainly, that immanity and tindure of implacable tyranny must be acquired from no other impregnation, then what may accrew unto it during its Defluxion. Toproceed, no Catarrh can descend upon the Teetb, or impeach their Nerves; which on either fide from the bafis of the brain are implanted into the mandible : fince they are fo exactly proportioned to the diameter of their receptacles, and fo entirely fill them up, that there can remain none the smalest cranny for the intrufion of one drop of rheume; and much the leffe for this, that Water cannot enter any small perforation, that is shut beneath. If fo, unfeignedly, we have no weighty engagement lies upon our reason, to enforce affent; that this rheume thould cuftomarily fall foule and infeft one fingle tooth, and fuch onely as is Carions, or hollowed by putrefaction. We shall add, that a Catarrh collected into a showre underneath the

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the scalp, should, according to the vieinity and rectitude of conveyances, rather ftream down upon the Cheeks, then the bottome of the Gums, through their fleshy Contexture, and perfifting non-incorporate to the blood, trace the impervious paths of the nerves, through the mandible, untill it in. vade some one particular tooth. Yea though this phantaflick deluge might be allowed to drop down from above, and fo be thought the caufe of pain, in the apper jawe : yet no man can fwallow fo unfavory an abfurdity, as that Water, not at all participant of vitality, can by any means, or at any time, infelt the lower. What if this vagabond rheume chance to decline towards the eyes, or ears? infooth, the ALL TO ALL TO ALL TO malitious matter thereof must, from the conceited Plane of of the brain, first passe through the chiet Ventricle thereof : in I brener and fo in that royall place become a fecond and more fatall cataract; yea occasion fuddain Death more probably, then an Ophibalmy, or bare inflammation of the eyes. Again, I Ophthalmia of well remember, that the feat of a Pleurifie is not betwixt the annate oculi tuskin, or externall membrane univerfally fwathing the body, nice inflammaand the intercostal muscles (whither, notwith standing, the de- acri, venulas ipfluxion might more directly stream down from the periosti- fins distendente, on, then toward the internall parts) but either in the very exorta. Confude substance of the oblique museles; or between those and the practicos. Plears immediately enfhrouding the Cheft, from which part the difease hath defumed its denomination. By what fluces therefore can a defluxion be derived from the head unto this place ? I grant, indeed, by way of supposition, that a certain Muceus, or phlegmatick and glutinous excrement, doth, even in Children and men of the foundelt conflicutions, flide down by the palat into the ftomack : yet this ftands in. no relation at all to a Catarrb; nor is that muccus bred from that cried up vapour of the first concoction ; but is an unprofitable Exerement, begotten à Custode errante, * by the Guar- + Inaudita pridian of the brain, seduced into a perversion of its office, as us Helmotij inhath been clearly declared in convenient place. ter Paradoxa, : I ex profesto nt ef-

sentie, Cause, modique fiendi morborum, novis ejus in Physiologia th orematis melius accommodarentur, fabricata, baud infimum tenet locum bocce, de Custode Errante, ingenium. Ut

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aucem qu'am brevissime, & pro captu marginie, quid sibi voluit per Custodem, et quid per eundem errantem, explicemus; animadvertendum est, quod Author, cum insignem aque cataractam è naribus, in principio Coryze (Frigus nurcuparunt rustici) ordinario effluxisse cerneret; et uberrimum pariter Mucci proventum a pulmonibus tuffiendo explosum : ut antiquatam, de Cararrho ex vaporibus in planum Cerebri delatis, codem in loco rusum concretis, atque dein tandem guttulatim, partim per nervos olfactorios antrorsum, partim retrorsum per laryngem in exiles pulmonum subos delabente, doctrinam pessundaret; Custodes duos, unum in Cerebro, alterum in Larynge, à sapiente reram Parente constitutos esse, affirmare ausus eft. Priori in provinciam delegatum eft, ut quoties Cerebrum ab externo aliquo malo lacesttum atque vitiatum fuerit, toties potestate sus alterativa, sive transmutationie energia, mucilaginofum quoddam Excrementum, ex fanguine in substantiam Cerebri mox rite assimilando, vel (ut Helmontij verbis utar) ex totalitate Alimenti, priusquam aleret, fabricet; que, tanquam lorica, partes frigore perculse circumtegantur & ab immani boste sarte tetteque conserventur. Atque hanc potestatem, Mucci hujus effectricem, Custodis etymo opportune quadrare, consentaneum eft. Alteri, Laryngis nimwum Prælidi, munus fere idem eft; puta, ut quoties aeris inexcusabilis injuria partem utranque, i. e. Cerebrum & Pulmonem adoriatur, soties è Latice & Cruore crudiori, Muccum etiam quendam, tanquam vestem, sive interstitium objiciat; in quem aer ferociens, partim deposita primi ictus inclementia, mitescat. Quamdiu enim Cuftos recte valet, atrocitatie aerie victrix superat : dum vero ob perfractum robur, prime sue destinationi ex voto satufacere nequit; saltem multum Mucci fabricat, ut conceptam eluat labem, quam primities non fuit separando. Sed ah ! ubi vel externa injuria major est, quam que sinat se sic deliniri ; altius ve ferit ipsam taryngis aut pulmonum substantiam: jam titubat Cuftos. Nec solum desumit auxilium abs Latice, Sed ipsam proximi alimenti substantiam alienat, transmut atque in muccofam collam; unde Phthisis mox seguitur.

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I grant moreover, that in the Gout, and other confimilar difeafes, frequently the guilt may be imputed unto a certain falt excrementitions fream, fretting the parts affaulted: but of fuch, onely the Latex, or fource of aqueous ferofisy in the body, is the Mint, Cement, and Supply; and not an afcent of vapours from the ftomack into the brain, not a mifcelany of non-existent juices, nor a feigned Defluxion of Phlegme mixt with Choler.

26. For the Schools themselves, furrounded with same, that the Head, being on all fides brimfull of the brains, might be a Magazine for the collection of Catarrbs, and most Difeases charged upon their Defluxion; have (alack, and alas for wo) unjustly accused the stomack of continual smoaking with vapours, and so contributing matter to their production: but finding the stomack not-guilty in healthy men, yet presently, in the Gout, they incriminate upon a Defluxion, and as benighted in a dark mist of their shame, whilper out this

this falle impeachment, nor adventure to speak it out, as alleaged from the testimony of positive knowledge. For they at first dash, steal the Question, borrow a kind of acrimonious Choler, and falt Phlegme from the fimple treafury of the bleed, and leave the controverfie undecided : whether those Hamors are to be derived from the Liver, separated, by a kind of Gritical percolation in the veins, from the remaining laudible maffe of blood, and fo excluded and discharged upon the joynts; or whether a certain Water, tartareous Muccus, or other anonymous Excrement be transmitted thither from the head, underneath the skin. For yet they remain unrefolved; and are the more confounded in this, that they cannot manifelt, what this cunning Separator, or Winnower of various humors, blended together in one form and confistence ; or what that Conductor Thould be, who should transport these humors severed from the blood, incontaminate with any alien tincture in fo difficult a passage, where many more folid fubstances are to be penetrated, onely to the Conjunctures and Articulations: and now felect and pitch upon this, and anon upon another determinate part : but leave unimpaired the more feeble and supine, and every day make a fresh conquest and subdue some one new joynt; yea invade that member, which is become more capable of refi-Stance by Nodes and Oppilations. Whatever, therefore, the Schools dotingly pratle concerning vapours elevated from the ftomack, and recondensed in the brain, as the material Caufe of Catarrhs; let all passe for a Christmasse tale, or drunken Beldams dream. ¶

27. For the flomack is never Cold below its native conve- digestivum, nient temper ; indeed the Digestive Ferment* (to which, and eft proprietas quedam effenti-

* Fermentum

alis, confistens in vitali quadam Acidicare, ad transmutationes siborum in ventriculo potens ; ideoque & specifice proprietatis. Non est autem fermentum istud digestivum, in sola Aciditate aliquali fitum. Neque enim acetum, vel jus Citri farinam fermentat : imo nec farina fermentata proinde est fermentum ftomachicum ; sed hoc est Acidum efurinum, ftomachicum, specificum & humanum ; ita quidem per fingulas brutorum (pecies Specifice distinctum, quod ipfis fit appropriatum. Mures namque, Glires, & Sues citius fame percunt, quam Phafeolum edant. In homine verd plerumque ad Generis amplitudinem afpirat. Interim plures Caseum borrent, vinum. lac, vel alia spernunt; quia non conficiunt. Ideoque quæcunque lustantur cum nostra digestione, obversantur Fermenti illius proprietati specificæ, fermentum que conculcare nituntur.

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not to heat, the Faculty of Concoction ought immediately to be attributed; as we have in another tract concerning that particular Theme, to ample fatisfaction evinced) may fuffer Diminution : nor can the Liver alcend to an excellive Heat, above that constant degree of Vital flame, which first entitled it to Animation; for in feverity of truth, there is no other heat in our bodies, but what was first kindled in our heart by that Vestal spark, or vital light, which immediately and folely constituteth the Effence of Life. And this the reason is, why every Earcafe doth fuddainly grow cold, as the heart ot Winter, fo foon as the Vital flime is extinguilhed. *

* Princium istud Formale, cujus beneficio & munere Animalium Corpora, alioqui frigida, concalescunt, edendisque Vite actionibus apta redduntur, non effe Calidum innatum, sive Humidum primigenium insito /piritu & calore undique perfusum, contra Aristotelem, ejusque anorstes, acerrime velitatur Author : tradens passim per suas lucubrationes, pro axiomate æternæ veritatis; quod in cunttis viventibus infit Lumen quoddam Vitale, immediate de fontaliter à Patre Luminum (Formas enum verum omnium immediate à Deo creari, serto docet, in Lib. de Formarum ortu) dimanans, cordique, dum adhuc esset in utero recens embryonatum, tanquam proprio conceptaculo implantatum, in quo Vita essentialiter consistut, atque cujus marcor Senium, extinctio Mortem necessario infert. Inquit enim, de Vita solerter perorans; Vita est lumen & initium formale, quo res agit quod agere jussa est. "Hoc autem lumen, a Creatore rebus infidum, datur unico instanti; prout à filice ignis excutitur, sub formæ identitate ac unitate clauditur, perque genera et species est distin-" clum. Non est autem lumen igneum, cumbustivum, humidi radicalis consumptivum. Tam " in pisce vitale est, quam in Leone; tamque in papavere, quam pipere. Nec etiam in no-" bis deficit Calor, ob humidi radicalis cmsumptionem : nec vicissim humidum deficit, Calo-" ris defectu; sed sola duntaxat potestatum Vitalium, adeoque et luminis diminutione & ex-"tinctione. Fusiorem vero Argumenti hujus explicationem me legisse memini, in tract. Humidum radicale inuncupato ; quor sum benevolos, avidosque doctrine Helmontij ex instituto remittendos volui. 9

28. But the offensive Heat of the Liver belongs to it onely by Accident. For example, let a cold Thorne or needle be pricked into any mans finger (an instance frequently mentioned by me, and largely explained in my discourse of Fevers) and thereupon shall instantly enfue a violent Pulfation, occasioned by the pain, an angry Incalescence, and Tamer of the part. * Not because this Thorne is hot, nor that the blood then in vicinity to the wound had any immoderate offer vefones sanas : id- cence before the infixation of the thorne : but that excellive ipsum in morbis Arder is kindled upon the entrance of the thorne into the flefh.

* Quicquid in

flesh. Now let the same reason hold good, as concerning edit actiones vithe Liver; for if that at any time conceive an unnatural Ardor, it is caused by some Thorne, or forreigne impression which doth not indicate, in order to the extinction of that conflagration, any Refrigeration, but a totall Ablation or fanitate, idem eradication of it. For Refrigeration of the Liver is so far from working even a bare palliative Cure of this Ardor, that indeed it renders the mischief desperate, for the future.

infixa, actu et potentialiter frigida, mox in digito excitat calorem preter naturam. Non quidem, quod calidi humores affluant, quasi per spinam eò convocati, expe&assent spine vulnus, & qui aliàs suis sedibus temperati sedissent. Siquidem cruor vulneri proximus, primus accurrit, aditum venienti cruori preripit. Et ipse per se quoque non calet: Sed ex gratia vitalis spiritus. Itaque inflammatio, & tumor cum pulsu duro, dolore, & calore, à solo spiritu causaliter; ab infixa verò spina occasionaliter duntaxat procedunt. Helm. de Febr. cap. 1.

29. And this, I earnestly with, the Schools may be pleafed foberly to observe ; as also their vain and impossible figment of the Heat of the Liver, and the manifold Errors in their Method of Sanation, all streaming from this fountain. May they ferioufly observe also, how barren and unfucceffeful all fuch Remedies have proved, which have been directed (with grief I speak it) to the Head, Stomack, and Liver, for the Cure of Catarrhs. Manifest therefore it is, that a Catarrh bath, in nature, neither Material Caufe for its Generatton, Place for its Conception, Conduicts for its Traduction, Receptaries for its customary Admission, nor sufficient activity to make good its Penetration through the substance of the brain, Membranes, Skull, and Perioftion. For where in all this admirable Fabrick of the body can we find, that Nature (whofe Providence can be found no way deficient) hath built any house of office; or closeftool, meerly for the reception of Preternatural Exe crements : nor can it fand with the lawes of verifimility, that a meer excrement generated in any part, fhould be endowed with an Arbitrary Power to transplant itselfe at pleasure from one place to another. And upon the concellion of the doctrine of rheumes, the Trepan would every day, be of as much ule for the letting out of Catarrbs, as to give vent to the Purulent Effluxions of wounds in the head.

30. But why fhould a Catarrh ceafe to flow downwards, immediately after the Tooth, which aked, is pulled out? whicher because it hath fo foon forgotten its way thither? And if the matter thereof be originally transmitted from below, whither, I befeech you, in relation to its natural Tendencie, should it then run? or upon what new part shall that ancient rivulet of rheume be diverted, which constantly used to creep into the channel of the teeth, and infinuate it felfe through those flender perforations, which the Nerves, aswell within, as without, above as below, entirely poffeffe and fill up? Doth the flomack, forfooth, ceafe, or not dare to continue the exhalation of vapours, and the communication of the fuell for Catarrhs, after the drawing of a tooth ? or doth the whole ftore of rheume, yea fuch as shall be generated in the future, flow forth together with the blood, at the instant of the tooths evulfion ? or upon the generation of flesh in the mertice of the drawn tooth, and fo the cutting off all way of effusion, doth the Catarrh dry up? But fure the Catarrh could not attempt a paffage through the rocky and impenetrable Substance of the tooth? If not ; what hindred it from swelling, by restagnation, into a necessary Apostem in the parts adjacent ? why doth it frequently, when one tooth is pulled out, find a new channel and drive against another ? Doth the evultion of the first tooth turne the courfe of the fream upon the fecond 3 Doth the conductor of the rheum grow blind, and can no longer find its way to the remaining nerve of the drawn teeth, or at least to the carnous excrescence that fucceeds the tooth ? or can it with more eafe drill a hole through a fecond firme tooth, then paffe the fpongy flefh that arifeth upon the ejectment of the former? why can it not conftantly keep possession of that Current which it felf digged ? And fo conferve an outlet for it felfe, before the new tenant of flefh take livery and feifen ? Miferably, infooth, is this rheum deluded by the Chirurgeon, which thinking, according to its cuftome, to invade fome one Tooth, and finding it removed, must be constrained to return back, by the fame way it came, and execute its malice upon fome

more

more noble part; which it torments; in revenge of the affront done by the Chirurgeon. No tooth, therefore, **keth** by reafor of a Defluxion: but becaufe, upon a detection of the Gum, it becomes too fenfile; or that, in another cafe, the matter of its ultimate or most depurated Aliment, being defetively affimilated, conceives putrefaction at the root of the tooth: and hence that intolerable Paine. 31. For the Digestion of the Teeth and Nayls is distinct from the Digestion of all other parts, in this particular; that the Digestion of those is performed in domestick vessels, or the very interior substance of each particular part; but of these in vessels onely contiguows to their roots.

32. But that no Catarrh can fall down upon the Inwards, the Stomack, Lungs, Liver, Kidneys, &c. is in part already manifested, from that generall evidence alleaged against the poffibility of its material Caufe, waies of transportation, and manner of production : and may, in part, be evinced from this, that nothing can fall down upon the Palat, much leffe into the Stomack, contrary to our will, but what may instantly be ejected by exfcreation. For we never swallow down the naturall Aduccus, ordinarily dropping from the head upon the root of the tongue; but unawares : nor is any Catarrh fo far participant of the power of election, as cunningly to lie in ambush, till we are lockt up in the arms of fleep, and then affault us when we are unfit to endeavour its evacuation. May all Fables, and Dreams of impossibilities be henceforth utterly exiled from the Confines of the facred Art of Healing. 9

33. Whatfoever, therefore, is diffilled from the head upon the jawes; is the Muceus, or ordinary excrement of the brain, either in its natural and due conffitution: or altered from it, into various irregularities, respective to the indifpositions of the Custos, or President of those parts. But this Muceus is, in totality of effence, diffinct from that Excrement, expectorated from the Lungs, by Cougb. And then, what means this rash inadvertency of the Schools, when they direct, that, by exact inspection, we examine the spite

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by Cough, whether it be watery, frotby, diaphanous, liquid, schite, concreted, yellow, ash-coloured, or tamny? whether round, globular, of a confiftence fit for impeinous defluxion ? To what purpole, fay I, doe they command us to make our augurie and explorations of the Difeases of the Chest and Lungs; if, as themselves opinion, those excrements we spit up, be Catarrhs, and originally derived from the head? For fo a rheum, following upon some constipation of the os Ethmaides, or spongy bone, by the Muccus ordinarily descending into the nostrils; would be diluted with a crude and aqueous Muccus ; for this cause, that provident Nature would hither fend a plentifull torrent of the Latex for the ablution of that, whole thickneffe and viscidity cauled the obstruction. And if the material cause hereof be primitively deduced from the flomack ; why, when the fpongy bone is obstructed, doth the stomack of a man perfectly in health, grow outragious, play the tyrant, and oppresse the brain with too great a charge of vapours? How can those vapors, when condensed above the palate, arrive at the odoratorie Nerves, feated in the forehead, and there put on the form of a falt water, to wash and rince away the obstruction from the fongie bone ? From whence can vapours, of their own nature, insipid and barmlesse ; in their short passage only acquire so much falt; which they should melt and precipitate downwards together with themfelves, and, by this new acrimonious imprægnation, introduce frequent squinancies, and other inflammations of the throat and jawes? ¶

34. Why doth this rbeum, elevated formerly from the flomack, and by no other transmutation, but only a bare Condensation into water (which is demonstrated, by the mechanick experiments of Pyrotechny, to be neceffarily insipid and gentle) changed from its primitive confistence of a vapour; when once it falleth upon the stomack, occasion so many and grievous mischiefs therein: which yet not long before, during its commixture with other parts of the Chyle, was gratefull and beneficial to the same? Whence can it obtain this Hostility? What, from the Brain, one of the most noble

parts of the budy, and richly endowed with vitall principles? And if this Vapour hath only touched upon the lowest Plane of the brain (as themselves affirme) and instantly fall down from thence, so soon, as it multiplies up to the quantity of one single drop; and fince no third place can be found, to deteine each successive drop : therefore can this perversity, or evill tincture, arife unto this rheum, neither from the momentany flay in the plane of the brain, nor from the Contagion of any malignant part, nor finaly from any feminality or infusion of depravity received from thence. Unlesse, perchance, they shall be able to give in evidence, that, besides the bare condensation of the vapour into rheum, there interve. ned some Third causality, from which the Acrimony, saltneffe, and virulency of the Defluxion was derived : which hitherto they have neglected to prove.

35. But fince the numerous Comments, concerning Catarrhs and Pulmonary maladies, have grown up into huge Volumes, Councels, and Difpensatories : I conceive it my proper busineffe to declare, that no theory of the Schools was ever more full of negligence, absurdity and danger, then this of Defluxions; on this account, that hitherto they have effeemed no finne more veniall, then Homicide, committed out of incogicancy and circumspection; provided that the earth cover over their Crimes, and they become excufed of murder upon the allegation of some Axiomes of vulgar tradition. And hence, amids my compassionate meditations, have * Confule da. I thought, that the Devil * Maloch fits Doctor of the Chair, "Confine ciaand hath down to our daies infatuated the world with the zonov illum, whimfey of Catarrhs. Whofe materiall Caufe, Nativity, Dom. Selden, de Place of conception, Efficient, manner of Generation, re- di Syris syntag. ceptary, progreffe, and collection, are equally unwarrantable 2. cap. 14. by truth, because absolutely impossible in nature. These absurd doctrines therefore none hath broached and promulgated, but the old Serpent, the Father of lies ; with defigne to depopulate Humanity. For whatever diffils from the head is the native Muccus and pure Excrement of the brain, generated within its proper confines; and no forreigner brought The 2 in from the ftomack.

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36. This Muccus, is conftantly while, thick, viscid and innoxiom; while the Custor, or Lord Prefident of the head, continues sober, well disposed, and conformes its dominion to the wholsome Statutes of its primitive trust: but when it degenerates into exorbitancies, and irregular operations, and the powers committed to its administration are perverted into abuses; then doth the Muccus grow unnaturall, wild, wstery, acute, falt, sharp, yellow, tenacion, &c. and like a virulent torrent, shower down upon the palate from the funnel of the brain, by the most convenient and obvious floodgate.

37. For that matter, which in the beginning of a cold, or pose in the head, trickles down in the form of a thin water, is not fimply and meerly the muccus : but falt Latex, wherewith nature endeavours to rince away that excrementitious Phlegme, which , as a forraine adversary , hath encroached upon the spongie bone, bordering upon the brain, and obstructed its fluices ; as I have already hinted. Nor is that matter, which comes yellow and viscid, in the declination or exit of a Cold, the same with the first Latex, nor any the smallest measure of time deteined and inspissated in the fame place; (as the Schools notwith flanding confidently teach) fince if fo, the whole cavity of the skull, though all the brains were taken out, would not fuffice to the reception of fo vaft a quantity of Excrement : but this new kind of Mucews is freshly created every fuccessive moment, aud differs from the naturall and healthy Muccus, in diversity of colour, finke, viscidity, and acrimony. Besides, its ridiculous to apprehend this putrid Muccus, under the notion of an excrement well concolled and inspissated out of the former Latex; which is accidentally advenient, preternaturall, and depends upon a forrein vitious causality. Now, that the Latex makes the first flood in a cold, is manifest from this observation; that alwaics, for two daies, in every cold, the belly is more flow in the exclusion of its excrements, and the quantity of urine much diminished : which clearly evinceth that the falt current is in part diverted upon the brain. Again, this

Latex evaporated in a convenient veffell, by a gentle heat, containeth nothing in its confistence, that can be inspiffated into a thickneffe equall to that of the Aduccus : but how much of the Muccus, the Latex shall dilute, and rince away from the spongy bone, by its thinner stream; exactly fo much, and no more of a mucilage, or glutinous substance, may be found in it. 9

28. But however it be, and whatever that be which flides down from the Brain upon the Palate and root of the tongue : yet cannot the least fingle drop thereof enter into the Lungs, but before it descend so low, it must endanger the life by fuffication. For if one drop of liquor, flipping + Had we faid down the afpera Arteris or Windepipe unawares, whilft we croffe fate, the are drinking, threaten the deplorable Fate of Anacreon * : Epithite had -what would not fo great a quanticy of rheume, as is frequently rejected by Cough, even to the filling of feverall basons in a very fhort time, doe as to the inference of fuffocation? hinted the And far from the fober and rationall waies of Probability prepofterous must his credulity wander, who can submit to a perswasion, rarity. For that the sleep of a few short houres can infensibly convey whole batons full of rheume into the Lungs; and that fo impetuous a flood of Phlegme can run down through the wasit, for the narrow chink of the Epiglottis, or Flap of the Larinz, with invincible ftuout the manifest hazzard of prefocation. In the daies of pidity of a yore I ingenioully confesse, being deluded by the sophistry of the schools, during my pedantisme and credulous pupil- ration: and a lage, I disposed my patients, afflicted with affections of the volatile muse Lungs, into fuch a posture, as that laying their faces down. to be condenward upon their pillows, they might fleep in a prone position; with defigne, that the rheume (forfooth) might run out by the Noftrils, which would otherwife have flowed into the ly fruit of the Lungs : and upon this score, I promised immunity from the Vine, the same perill of Defluxions. But the following morne derided my Inspirer, whole ignorance and folly, with an argument borrowed from the active flames constant perseverance of the Cough and exfereation of rheum. warmed and For then did I discover, that an Orthopnea, or extreame dif- exalted her to ficulty of Respiration, which constrains men to fetch their the sublimity

been more genuine, and had more clearly how unufuall and umaturall an Accident from his inspifed into eternall dulneffe, by the fprightbreath of rapture?

38

breath in an erect posture, put but a flight valew upon the doctrine of Catarrhs, and amply convinced it as frivilous and inconfistent with truth. Since I observed many to be strangled in that prone and horizontall position; which yet was, with great gravity and confidence, prescribed by the Schools, as the only barracado, or damm, to intercept the antecedent matter of the Catarrh. Upon which observation I first built this justifiable position; that every particular member of the body, once disaffected, doth forge and coyne a very great quantity not onely of its naturall and ordinary excrement; but also of new, alien, and adverse.

39- Thus from the eyes, according to the variety of their disaffections, trickle down continued rills of a purulent efflus xion, or of falt and corrofive tears, let forth without the key of paffion : and when the Throat is blockt up by a squinaney, there continually hangs downe a rope of viscid Phlegme from the tongue. And upon this root grew that branch of my judgement; that the Lungs are equally subject to the fame law, with other members. So that as often as they are affauled, irritated, injured, wounded, oppreffed, or tainted by any inquination of the der, or contagion of malignant vapours belched from the fulphureous and bituminous bowels of Mines : fo often must they produce various testimoni. als of their present langour, upon the credit of their own irregularities; and not that, upon any fuch occasion, those to destructive and venenate excrements can fall infenfibly from the brain (whole integrity of conflitution remains, for the most part, in such Cases, inviolate) and be received amongst the flender Conduits of the Windpipe. And hence grew my Wonder alfo, how the Schools could obferve, that the matter running from the nostrils, in a Cold, did in the declination or Catastrophe much degenerate from what it was in the Prologue and first act; and imitate the proper and ordinary excrement of the brain : and yet, at the fame time, not discover ; that the same perversion or abuse of power lay in Common to the Lungs, afwell as to other members of the body. According to their rule, whatever is avoyded from

the

he Lungs, mult be fathered upon the brain, mult thence fall downe insensibly (ridiculous) into the Windpipe, there, by a certain pepasinus, * or maturation, be stewed into a confistence more fit for its future exantlation, and all that while be lodged in the small-bored pipes of the Lungs, without rum prater nacaufing any intense Anbelation, or difficulty of breathing. turam, morbos When (alas) it can escape the observation of no man, that efficientium ana far greater quantity of matter is frequently expectorated by Cough, in difeases of the Lungs, in the space of one moneth, then the whole cavity of the Cheft can conteine. mam; ut mitig, Upon which confideration, we are bold to affirme, That the est naturalium yellow, afbcoloured, and fulsom spittle of men in Consumtions, are concoctio. vide errors of the Custos, or President of Vegetation in the Lungs, and materially the blood, degenerated into a white, yellow, flinking excrement ; * which being thus exhaulted, there must of neces- * Custos, qui fity enfue an Atrophy, or universal Famine in the body.

* II E TRI O MOS, Maturatio : ita dicitur bumoroiwous; quafique Alteratio in meliorem for-Hippocrat. & Galen. in epidemiis.

Laryngi & pulmon bus præfi-

Why

det, ubi semel infanit, rectoque justitiæ de tramite deviat, nedum humorem aquofum è venis advocat sui in auxilium; aft etiam ipfam alimenti proximi substantiam exhaurit, corrumpit, et in muccum infamem transmutat : tanto viz. visceris alimento proximiorem, quanto altins ad colorem ex flavo ruilantem, & rubedini vicinius accesserit; reditque ab illo lapsu in pristinum, dum à rufo ad flavedinem palez, atque inde demum ad albuminis ovi similitudinem propris appropinquarit. Hine vice versa, in Hecticis cruentus evadit muccus, et cinerum obscurorum colorem assumit: dum ipsamet alimenti substantia abscedit transmutata, deficientemque ibidem vite integritatem pandit. Tunc nimirum fetidus cadaveris incipientis odor in anbelitu, deliquia prodit Archei Pulmonarij. Sed hac ad meniem Helmontij.

40. Unfucceffefull, therefore, and deplorable are the Prescriptions of Cepbalick remedies, in diseases of the Lungs; vain are the drinks of cooling Prifans, vain are Lambatives, Syrups, and whatever elfe is fwallowed down into the ftomack : as fuch that must fuffer a Cafration of their virtues in their tedious journey, and undergo many formal transmuta. tions, before they arrive at the part affected.

41. And what can fmell more of the Fool, then to give Decollions of the Indian Roots, to dry up rheums? for how can China, Zarza, or Guajacum conduce to exficcation, when drank in a liquid forme? What can they dry up, which would not be more pernicious and desperate when dried up, then it could be in the more harmeleffe confistence of a Liquor ?

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42. Why are fuch things referred to Exficcation; which, in the policy of reason, want onely some inhibitive Sourse to prevent their Causation : and when they are stolne into ex. istence, require not an evaporation of their liquid and fugitive parts; but an entire ejection and eradication of their whole? Why do the Schools, in most of their disquisitions, look onely open the effects and obvious Exteriors : and never pursue their fearch back to the Caufes and more remote Proto-principles ? What though these forreigne and barbarous drugs procure a general swear, and fo diminish the requifite quantity of the Latex, to the great and almost irrepara. ble detriment of the Patient: do they therefore strike at the root of the difease, and destroy the Cardinal efficient thereof? while by a spare diet, and plentifull (meats, they first diminish the neceffary measure of blood; and fecondarily caule an unavoydable leanneffe of the whole body. All which the Schools have drawne into practice, upon the defigne of exficcation of fuperfluities ; wildly imagining to comprehend, the competent quantity of blood, Generation of the exotick Excrement, and easie Expulsion of the same, under the fingle fynonyma of Exficcation. But (alas) will the radical indisposition of the Lungs be hereby restified ? will the Transforming Vulcan, or Frantick Cuftos, which doth there coyne loathfome and confumptive Excrements out of the laudable blood, be by this ineffective means fubdued, lulled afleep, weakned, and reduced to its primitive fobriety, and convenient administration of its power? which enraged Vulcan doth never, no not when the fick are emaciated to living skeletons, remit or discontinue the execution of its fury. Turne from us, oh thou foul of goodneffe! that de. plorable Calamity, which the fottilh Sanbedrim of Pagans, and herd of blind Doradoes, pretending to the facred mysteries of Phyfick, which more fludy their own gains, then the fafety of their afflicted brother, have drawne upon all Chriftendom.

43. The Cardinall point of the Cure lyes onely in this; that the irregular and erroneous impression (which I call, the

Factor

Factor of corruption, or Vulcan, refident in the Lungs) be expunged and eradicated. For thats the only Publican, which by an unsupportable Excise, impoverisheth the whole Common-wealth of the body, and makes nature bankrupt, by exhausting the stock of aliment from the membranes, veines, Cartilages of the Windpipe, and all the substance of the Lungs; and converting the same into fordid and ulcerous excrements, which are continually pumpt up by Cough. But if there hath preceded an eruption of blood in any velfell of the lungs, if the matter expectorated be fanguine, and the difease hath proceeded to an ulcer; In fuch a cafe, learn the right confection of fuch admirable Medicaments, wherewith Paracelfus was wont to cure the Confumption. For those, fince being taken inwardly they cure even a Cancer or any other corroding malignant Ulcer, have more then a pretence to the cure of Ulcers in the Lungs : And if any medicament drank down into the ftomack, doe a cure of an ulcer in the thigh or foot : why fhould it not doe the fame in the Lungs? But what will the Schools doe? they continue ignorant of the Caufes, ignorant of the Remedies, and wavering twixt negligence and uncertainty, fuspend all further enquiry; and yet confidently cry down the ufe of Mercury diapboretick, fixed into a fweetneffe equall to that of Hony; and the volatile Tincture of Lilium a : as also the Tinctura Para-Milke or Element of Pearle b.

* Lilium eft celli ex stibio.

Colloca

41

HALLIN CA

Nam alcool stibii in clauso reverberio detinebat per mensem, ut evaderet leve, & volaticum, prime album, inde luteum, ex quo rubrum, & tandem violaceum (quod Lilium Antiquorum alii nuncupant) ex quo, per vini spiritus ad xx. digitos affusos, tineturam extrahebat, separatoque postliminio spiritu, Nobilissimam Lilii Essentiam paratam esse dicebat, in omni morbo prestantissimam. Arcanibujus præparationem Paracelsus bausisse videtur ex libris Basilii Vatentini Monachi, de Antimonio; qui extacunt ante plusquam 200 annos. Lac five Elementum Perlarum fit, cum Margaritæ in lacteum querdam cremorem (ex quo prius concrevisse merito credantur) repetitis multeties solutionibus, liquoris solutivi evaporationibus, &spiritus vitrioli affusione, dissolvuntur. Cum autem Helmontius, ne porcis uniones projecisse videatur,ejusmodi artificium coram mundo propalare recuset; letteri, potissimum cui Hermetis adyta intrasse nondum contigit.gratum fore duximus, si rectum ac minime labortesum conficiendi Lac Margaritarum modum, paginæ hujus margini inferamus, parca verborum serie. Margaritas, in porphyrite in farinam seu leverem tritas, mitte in cucurbitam. Affunde menstruum acutum solvens (puta succum Limonum) ut duobus digitis excedat. Claude vitrum exacte.

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Colloca in cineres calentes, ut solvantur Perla. Si una vice id non fit, muta menstruum ; donec tota substantia delituerit. Solutiones distilla ad siccum. Affunde aquam stillatitiam dulcem. Macera: distilla; quod ter repete, aut donec acrimenia abierit. Calc: buic affunde optimum ex malvatice vino spiritum. Digere, distilla blande. Redde aluum: digere, distilla, idque repete donec eleositas spiritus Perlas in oleum mutaverit. Quod cum novo spiritu digerere, & per alembicum extrahere queas, tandemque asstracto spiritu, per se dare. Si Tabulas vis cape quantum vis: affunde spiritum Vitriols, & siet Lac. Ex hoc secedet Calx candida. Abstrahe bumorem. & cum sachari Chrystallini q saqua resacea soluti, sac Tabulas Verlaras.

42

For unleffe the whole body throughout be tinged or bedewed with fome *supereminent Balfam*; feldome or never are *internall ulcers* brought to *Confolidation*. And the *Lungs*, being a part that first submitteth to old age and deatb, can very hardly make a fafe retreat back to their primitive ftrength, when once affaulted by any ftrong infirmity, the Forlorne hope of Death: but having their forces once routed, eafily refigne to the tyranny of the Conqueror; and therefore feldom receive any recruit or affiftance from Common remedies.

44. Upon the reputation of which reason, hath the antique errour of the Schools (who, fooner then they will be brought to acknowledge any deficiency in their blew and invalid Medicaments, are ready to impeach Nature herfelfe of imperfiction, and transfer the blame upon the most glorious Author of Nature, by implicit acculing him of improvidence and drowsie omifion) succeeded even down to our daies. They politively affirm (forfooth) that the four lobes of the lungs are, during life, unceffantly expanded and compressed, by a short vicifitude of contrary motions, like a paire of Bellows, for the use of Respiration, so that the Aer inspired, is drawn only into the Lungs, but passeth no further into the cavity of the Cheft. Which opinion, truely, hath been of bloody difadvantage in the method of healing: though at the fame time, it ferved the Schools of Phylici. ans for a weake fanctuary, and childish evalion. For upon the inceffant and inexcufable necessity of the Dilatation and Constriction of the lungs, or perpetuall motion of their substance, have they endeavoured to contrive an excuse for their practice : which leaves all Ulcers of the lungs, all Con-

Sumptions,

umptions &c. as desperate, and beyond the art of Æsculapius. Well a day, as if they could cure an ulcerous inveterate Cancer, or quiet Fistula of the Anus, or eyes, at pleasure ! Which Error 1 thus encounter.

45. In the Aer, there perpetually faile up and down whole Clouds of dust atomized; and therefore, by a continuall neceffity, together with our breath we fuck in whole fwarms of these dusty atomes : and by consequence, the whole cavity of the Cheft would in a very fhort time be filled with dirt, it nature had not provided us of lungs, in whole narrow Meanders, and almost impervious porofities, these Atomes of Dust might be stopt and hindered from further advance. And in this relation, the Lungs have no other way of discharging their excrements, but by Exscreation; that the dust drawn in together with the Aer, might be pumpt out of the Pipes of the Lungs, at the fame instant the ordinary excrements of the cheft are avoyded. A use, indeed, which hath hitherto layne obfcure and neglected by the Schools; who have unanimoully denied the Lungs to be pervious. The haire, indeed, wherewith the nostrils are fringed, like a net, catcheth all the small fibres or threds of Atomes flying in the aer, and hinders their further ingreffe: and the numerous folds, and annulary Cartilages of the Aspera Arteria, are like to many labyrinths to arrest and fix the finer dust, that it finke not to the bottome of the Lungs. In order to our proofe, That the Lungs are immove. able, we have a very fufficient argument from the forementioned use of them : and not onely that, but further allo, that the substance of the Lungs is uncapable of Expansion and Constriction. And therefore the Lungs of Birds (ferving to the fame common use of respiration, as well in them, as us) in regard they are, by many visible fibres, closely annexed and chained to the ribs, cannot by fucceffive or reciprocall Dilatation and Constriction, make up the comparison of a pair of bellows. Again, the whole fabrick of the Lungs confisteth of three large vessels, or tubes, equally dispersed through the whole (viz. the Arterial Vein, the Venall Artery, and Ajper.s G 1

43

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B

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Aspera Arteria, or Windpipe) of a sanguine Parenchyma, or blood concreted into a folid maffe ; and a peculiar Mem. brane, or fcarfe enthrowding all the reft. Now the three Veffels are Canals or Conduits, equally divaricated and diftributed through their whole fubstance; and the two for. mer are ever repleted with blood, and therefore abfolutely impossible it is for them to receive in any of the Aer drawn in by infpiration : but the third is ever open, filled with Aer, and to incapable of any new infpired aer, untill the aer drawn in at the last dilatation of the Chest, be first discharged down into the capacity of the Cheft; for which reafon, undoubtedly the afpera arteria, as also the Membrane en. throwding the Lungs, are full of small perforations. For this third Canale, confifting also of Cartilagineous or griftly rings, made contiguous each to other, by the intervention of a horny membrane, is ever diftended and open ; no other. wife then the main trunk of the Windpipe. The fourth part of the Lungs, is their parenchymatick Flefh, altogether as incapable to admit the advenient Aer. To conclude, the fifth part is a membrane, ferving as a Coat to inveft the whole structure. This fumm'd up and confidered, the refult must be; that no part of the Lungs bath any room to entertaine any of the smallest parcell of the Aer brought in by inspiration : and that no part of them can, without violence and the dilacera. tion of their substance, endure the reciprocal motion of Dilatation and Constriction. A miracle it is to me, I professe, that the Schools, notwithstanding the uncontroulable evidence of this verity, can yet mort in their inveterate Lethargy : that though they fland convinced, and allow of all our allegations, as true beyond all Scepticity; yet doe they not, even to this very day, cease to preach up their absurd opinion, that the Lungs are continually, by a reciprocation of contrary motions, like those of a paire of bellows, diffended and recompressed . Again, the third of these vellels, or forementioned Tubes (though we should grant it not to be continually repleted with aer, but an absolute vacuity, unpossessed by any aer at all) in respiration (when yet it remains

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mains open at all times, nor can the fides thereof meet together by considence, like a bladder, the cartilagineous rings forbidding it) can receive onely fuch a proportion of new aer, as may respond to its capacity; but fince as every inspiration we draw in fo much aer, as mult fill a larger capacity, then the dimensions of the whole Lungs can be extended unto: it feems of undeniable necessity, that the aer is not inspired onely into the pipes of the Aspera Arteria, of them, felves uncapable of constriction and dilatation, but is car. ried further down, even into the cavity of the Cheft. For a close, when any man hath received a wound with a dagger or poyniard, through the intercostal muscles; tis difcernable with half an eye, whether or no the ftab hath pes netrated into the cavity of the Cheft : for if yea, then is the acr, upon confriction of the Cheft, exploded by the orifice of the wound in fo ftrong a ftream, that it will blow out the flame of a candle at confiderable distance; which could not stand with possibility, if the acr attracted by infpiration did not passe through the Lungs into the cavity of the Cheft. And the Confequence of this is, that the Lungs bave no motion at all. A principal Argument, for the illustration of this paradox, is, that in the breaft is feated a double membrane, perpendicularly interfecting the cavity thereof, from the neck down to the midrife, and therefore called the Mediaftinum, or partition wall, provided by nature to guard the heart from the injuries of aer. This Mediastinum divides the cavity of the Cheft into a right and left. Now manifest it is, upon the conviction of the former experiment, that the aer fuckt in by infpiration, is drawne directly downe into the cavity of the Cheft; as also that the Lungs are, for the fame reason, devoyd of all motion. A second Argument, no leffe obvious or fatisfactory, may be collected from the purulent expectorations in Pleurifies. For in these discases are ever rejected by cough such excrements, as were first generated of blood extravenated and putrified, in the parts adjacent to the ribs, and membrane enfhrowding the hollow

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hollow of the Cheft : and therefore it is of necessity, that the coat of the Lungs mult be full of confiderable porofities, or perforations, which fuffice to the easie transmission of blood and thick purulent matter. All these things the Schools fee, know, confesse, and write of : and yet are so effronted by cuitome, that they adventure to deny, that the aer attra-Eted by infpiration, is carried through the Lungs down into the hollow of the Cheft; but affirme that the fubftance of the Lungs is perpetually agitated, twixt expansion and compreflion, like a pair of bellows. They concede, indeed, that the Lungs have many pores or finall perforations, through which the extravenated blood and apostemated matter in Pleurifies are imbibed and fpungd up : but will by no means grant, that the more fubtile and penetrative Aer can be transmitted through those pores into the cavity of the Cheft. Nor is there, why we should wonder at this obstinate infatuation; lince they speculate onely dead bodies, in which the pores of the membrane invefting the Lungs are closed up by the condensing hand of death : and the fame conflantly happens in the optick Nerves, the Spinal marrow, interstice or midle partition of the heart, and orifices of the mefaraick veins looking into the guts. The Lungs of any beaft float upon the water, while they are boyling whole, but minced into small gobbets, they presently fink to the bottom : the reason belongs to the impletion of the Aspera arteria with aer. And if boyling water (pardon us the impertinency) cannot find accesse into the substance of the Lungs, while they are decocted ; which way (we beleech you) can the groffer matter of a frigid Catarrh hope to force an entrance into it, at pleasure? The same is also demonstrable by an experiment, as easily made as mentioned. Let any man, by a strong efflation, breath out all the aer in his cheft, as much as possibly he can; then with a ribon measure the circumference of his body, neer the point of the frordlike Cartilage, above the pit of the ftomack : and again, by as ftrong inflation, fill his breaft with aer, and measure it the fecond time, and he shall find, by comparing the diffe-

rent measures, that more aer is attracted into the cheft by infpiration, then can be conteined in the dimensions of the Lungs. And much more, when he shall allow for that proportion of aer which tending directly downwards, depreffeth the midrife upon the stomack. Try the fame experiment, another way; draw in fo much breath, as you can; then blow it immediately forth into a bladder, and you shall finde, as before, that the quantity of aer inspired doth by many degrees exceed the mignitude of the Lungs. But in the mean time, be pleased to remember, that all the smaller tubes of the rough Arterie, as well as the upermost large canale, remain constantly wide open, as being distended. by their Annulary Catilages, and must therefore be repleted with Aer, fince nature and an absolute vacuity are incompatible. No doubt, but the belly and breaft owe their iniumescence to the inspiration of aer; if therefore the Lungs were capable of diltension (which yet feems to us impossible) yet could they not be diffended to a capacity fufficient to admit the tenth part of that aer, which the Thoras upon infpiration doth ordinarily receive; allowing for that acr, which doth depresse the mid-ife downwards, and remain in the ever diftended pipes of the rough Arterie, in avoydance of vacuity. By inference therefore, the motion of the Thorax doth argue the motion of the Lungs unnecessary. Should we grant, that the Lungs could fill the whole cavity of the cheft (which the most impudent ignorance dares not affert) then would it found concordant to realize, that the eleva. tion of the ribs fhould dilate the Lungme that fince the aer, by the laws of its constitution, is subject Dilatation and Compression (as common Philosophy phrasethit) therefore could not the elevation of the ribs draw in a sufficient quantity of aer. Yea, fince that attraction cannot but be violent (as being a sbift Nature is put upon, for the prevention of a vacuum) i.e. è diametro adverse to naturall and vital mon tion : it follows, that the mation of the ribs is not ordeined nor conductive to the dilatation of the Lungs. And fince the Lungs have, neither in themfelves, nor by infusion from any other

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part, any principle or Causalitie of peculiar Mation; other then that dependent on the motion of the ribs (according to the Schools:) it refults a ferene and irrefutable truth, that they have no motion at all ; but from the first to the last moment of Animation, continue quiet, without variation of Figure, or enlargement and contraction of Dimen. fions. What clearer manifest of folly and invincible dotage can there be, then to confesse, that all the twigs, or fmaller Canals of the rough Arterie are constantly wide open, as being necessarily distended by the contexture of the ringlike Cartilages : and yet at the fame time confidently to maintain, that all the fame Canals, upon the attraction and explosion of aer, in the reciprocal motions of Respiration, are dilated and compressed? Besides all this, the Schools, in their lectures, deliver it for eftablisht beyond dispute, that the Diapbragme or midrife doth, as prime and fole Efficient, fuffice to the ordinary use of Refpira. tion: and yet anon they fall foul on their own maximes, and substitute the intercostal muscles, as Coadjutors, or Auxiliaries, to the performance of that office. Again, there frequently arife out of the ftomack fuch belchings, as carry along with them the lively expressions of edeurs formerly received into the Lungs by infpiration : therefore are the Lungs and midrife perspirable, that is drild full of fmall porofities. In earnest, tis worthy our most passionate tears, that the Schools have, for fo many ages together, unhapily milpent their sweat and oyle, in fripperies, childish pageantry, and comeying Romances more wild then those of the Talmud Grandofto. I shall urge another case and familiar experiment; if, in a prone decumbency, that is lying with your face to the earth, you place one hand on your belly, and the other on your ribs, and at the fame time draw your breath at a moderate rate, you shall then plainly perceive, that the muscles of the Abdomen are the onely operators in the businesse of respiration : that the belly being lifted up, the midrife is drawn downward; and confequently that the cavity of the Abdomen is by fo much enlarged, by how much

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much the plane or diameter of the midrife (in itfelf lax and undiftended) is lesse then its semicircle, when it is drawne downward, and fo much the larger, by how much the more lax the plane of the midrife is. Nay whats more, if you bind in your ribs with a freight girdle, and then fetch your breath very gently, you shall fensibly perceive the belly to be reciprocally elevated and depressed, the ribs all the while remaining quiet, without any visible motion at all; and by confequence, that the Lungs in this cafe, should we grant them to move at other times (which truth forbids) can remain quiet a whole day together, if the constriction last fo long. But in fighing, ofcitation, sternutation, and intense respiration, or panting for breath (and in no other cafe) the muscles of the Thorax, running along betwixt the ribs, are fenfibly perceived to officiate, and by a kind of fubstitute administration, concurre to the action of respiration. For the ribs are semicircles propendent downward, or arched into a lateral convexity; to each of which is annexed one of the intercostal muscles, which bend them upward, and by a kind of familar violence diminish their convexity in the dilatation of the Cheft. And as they become greater, as to their concave, when they are bent into a diminution of their convexity; in that relation also do they become round der, as to the figure of the cheft ; and fo by confequence make the cavity of the thorax wider. Thus Orthopneumatick men, or fuch as by extreme difficulty in respiration are constrained to keep their bodies in an upright posture, heave up their shoulders high, every time they respire, by leaning their elbows or hands hard upon the pummels of their chairs; to the end, they may in some part relieve themselves in that extremity, by the enlargement of the cheft, and greater detrusion of the midrife. A certain matron, wife to Patritius, in hard travale (for the child came forth prepofteroufly, with the buttocks forward) by a large infpiration of aer, striving to promote her throws, and expedite the birth, broak the membrane environing her cheft, betwixt the feventh and eighth ribs; yet without any manifelt H

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nifest sence of pain (for a greater pain ever obscures a lesse) any Aposteme, or other Accident ordinarily subsequent up. on wounds or dilaceration of that fo fentible a part. Some few dayes after her childbed, as often as the held her breath long, or extended her cheft, in finging, panting, &c. * fhe (obscanum sane felt a very large tumor of wind bunch up betwixt her ribs; which funk down again, when the compressed it with her hand, and let her cheft fall in again at the efflation of her breath. And from that time to her death, fhe never flept, but with a fwath drawne hard upon that part of her break. Which inftance puts it amongst truths most manifest, that the aer attracted by infpiration is carried through the Lungs into the cavity of the cheft. The fame have I observed also in a very Noble Lady, who got this misfortune in her travaile; that whenever the held her breath , the had one fide of her throat blowne up, like a bladder diftended with aer, to fuch a monstrous greatnesse, that no care or art could conceal it from the standers by. It makes very much alfo to our prefent purpole, that I have, with most ferious attention, confidered all Pulmoniaeal and Afibmatick Patients, and found, that, for the plurality, they fleep with great eafe and quiet on one fide, and can hardly fetch their breath on the other. For we have no reason to doubt, but this maladie is Idiopathical to the Lungs, i. e. not occasioned by deuterapathy or confent with any other milaffected part : as also, that in that fide of the Lungs, which respecteth the prone fide on which the fick man then lies, and which must in that prone polition bob and fret against the membrane lining the cheft, those pores are constipated or obstructed, through which the aer used to be transmitted into the cavity of the cheft ; and moreover, that the porce of either Lobe of the Lungs dependent upon or facing the downward fide, are either all, or at left the greatest part of them (which we may know by observing the degrees of extraordinary respiration; for the more or leffe difficulty of respiration, may be a certain rule to direct our compute of the greater or leffer number of pores obstructed) by some lapse of providence in disordered nature,

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nature, or forreigne contingency obstructed. By which Argument it is manifest, that the Lungs are not Expanded and Contracted, like bellows, but pervious and transpirable, by reason of their numerous perforations : through which the aer smoothly gliding into the hollow of the cheft, doth constantly hold an equal proportion to the magnitude thereof, as well in its diduction as contraction. And hence is it, that men fick of difeafes in the Lungs draw their breath more easily when they fit up; then when they lye down : for the Lungs, when they hang directly downward in a free pendulous position, have on all fides those pores open and fit for the transvection of aer, which have not yet fubmitted to the oppression of obstructions. Termos stillin eds to mit

148. Beyond all excuse therefore do the Schools erre, when they deliver, as an oraculous truth, that the midrife in the fole and prime Motor of the Lungs; and, in that relation, the proper and principiative efficient of Respiration. More particularly, that when the midrife doth contract itfelf towards its own Center ; it then makes the Expiration ; but show withit when it relaxes toward the Circumference, the Infpiration: and so the quantity of aer inspired must in exact proportion respond to the measure of the midrifes expansion or relaxation. Our reasons thele, 1. Since all voluntary Motion is performed by a Mufcle, as the part folely and principally adapted by Nature to that action, by a retraction of the taile toward the bead thereof; therefore, if their opinion fland allied to verity, must the midrife be a prime, beteroclise, and most principal Mujcle, and the bead thereof feated in its Center. 2. If the midrife be an organ primarily executive of motion ; then, though the Mufeles both of the Abdomen and ribs cease from all Contraction and relaxation of themfelves, would the midrife maintain the fucceffive motions of respiration, by its own fingle power : Which experiment positively denies. 3. Yea the muscles of the Abdomen, which are ordinary muscles, would have no motion proper to themfelves, but be moved, at fecond hand, by the previous motion of the midrife. 4. Vain and uteleffe would the

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the contrivement of nature be, and her architecture imperfect in fuperfluity, in making the abdominal mufcles; and the belly might have as conveniently been cloathed with the fingle coat of the Carnous Membrane, as with the bombaft and duplications of fo many mufcles. 5. Since every organ of Voluntary motion doth execute its function by Traction, or drawing the part, into which its tendon is inferted, towards itfelf; the breaft, according to this error of the Schools, would be drawne very much inward by the Traction of the midrife, and the waft convelled into the dwindling figure

* Clepfydra in archetypo:quæest organum quoddam artificiale, quo ex aqua, de vitro in vitrum deorfum, per exile foramen, guttulatim destil-

lante, boras metiri solebant antiqui. Hodie vero, hominum ingeniis ad nobiliores machinationes feliciter provectio, exolescunt Clepsydra; hisque supervenere Clepsammidia, quibus horas mensuramus per sturie Arenæ: ut & Horologia Automata, quorum orbiculi serratim dentati (græce τροχαλία, ut Arist. Mechanic.) sese mutud protrudentes, vel a chalybe areuntim tenso, & machinæ infixo, vel ponderibus appensis circumgyrantur.

> 49. Hence upon rationall deduction I conclude, I. That the true and proper use of the Midrife hath hitherto remained unknown. 2. That the use of the Lungs hath never yet been met with, by the too lazy and jejune ferutinies of the Schooles. 3. That the exact manner and reason of Respiration hath also escaped the vulgar exploration of Anthropologists. 4. That Anatomists have never made a just and perfect difcovery, which are the prime and principall inftruments of respiration. 5. That the muscles of the Ab. domen doe alone suffice to maintain ordinary and moderate respiration. 6. That the Lungs are never moved by any naturall expansion and Compression of their substance; but ferve onely as a fieve, or pecolatory, for the fequestration of the atomes of dult from the most simple and pure aer, which is immediately transmitted into the concave of the Cheft.

Chest. 7. That the deplorable difficulty of curing difeases in the Lungs, especially where their Continuity is infringed, doth not arise from this, that they are unceffantly agitated by a vicifitude of Compression and Expansion, and in that respect destitute of that rest and quiet, which is necessary to the confulidation of a difunion (which hath ever been alleaged and admitted as an excuse for the languid and ineffe-Auall operation of vulgar remedies) but from hence, that the small apertures or extreme orifices of their perforations are blockt up by obstructions, whose remove is a task too difficult for the infirme fingers of common pulmonary medicaments, and onely to be hoped for from the Herculean energy of fome Chymicall Panchrefton *. To which we may *An univerfall subjoyn, that nothing, besides aer, can arrive at the extreme Medicine. pores of the Lungs, and that aer is, by reafon of the oppilations, there arrested, and imprisoned, and doth also by degrees exficcate the obstructing glutinous humors. From which depraved root there fprings up a whole grove of preternaturall productions which in their maturity put on the destructive blossomes of Aridity, Acrimony, and Malignity: and in the fummer or ripening of these fiels of evill (which must, alas, be the autumne of life) there must grow a racemation or bunch of desperate Accidents, such as extreame anxiety in respiration, Apostems of the Lungs, exclion or corrofion of their veffels, spitting of blood, ulceration, confumption, and in the catastrophe Death. For let us suppose, that all the aer attracted by the expansion of the Cheft, is ordinarily transmitted into the capacity thereof, through a thousand minute tubes or divarications of the Aspera Arteria; and that this just number of perforations in the Lungs is sufficient to the confervation of health, as to the interest of respiration : if therefore but a bundred of these be ftopt up by obstructions, then must the party suffering this conffipation, become, by one tenth part, more shortwinded, in long and intense motion, or ascending up hill, then otherwife he ought to be.

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rupted prospect into the field of Pulmonary remedies, and may at first glance difcover, that Syrups, Lambatives, Loochs, de. are lame and despicable reliefes of nature; fince they never arrive at the parts diffreffed, but are either diverted into the ftomack, intellines and other places wholy unconcerned in their operations; or to impaired in their activity by a tedious pilgrimage through many Concoctions and tranf. mutations, that they lofe their primitive faculties, and grow too languid and evirate to encounter the difeafe. Nay what's more fad, that if they did arrive in the zenith of their feminal powers and unrefracted qualities at the camp of the difeafe : yet, like cowardly and treacherous Auxiliaries, they would aggravate the charge of Nature, and ruine that part, whole a fiftance they pretend. Here allo our enquiry meets a hanfome argument, why no one of the forementioned infirmities of the Lungs may hope a Cure from any Plant in the Phylicians garden, or Confection in the Apothecaries thop ; unleffe Fire, difcreetly governed by the learned hand of Chymistry, and blown into a temper fuitable to that Ignis non lucens, or invisible flame irradiating all our fabrick of frigid Clay, shall graduate some medicament into a Noble Entelechie, and make its balfame friendly and familiar to the principles of life, as natures own.o donne to meaning

51. But as for thole Precantions of Estarrbr, which enjoyne the ule of Coriander feed, and other fuch vain fopperies, after fupper, for the prevention of fumes arifing out of the flomack; how much more worthily; in the judgement of fober reason, doe they deferve our pitty, then our confidence? For if the generation of vapours, from their causes (bumidity as the material, and the innate beat of the flomack, the efficient) and their ascention be naturall; what can Coriander doe to hinder that these naturall effects flould not follow on the neck of their causes? Can Coriander inspecies the exhalation or ascention of vapours out of the water? At the fame rate let us prife those magnified trifles and ferious nothings of the Schools, when they with great

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ceremony prescribe, that the haire must not be kembed, nor the head rubbed at night, but morn (forfooth) not towards the forehead, but backward; left Catarrhs, obeying the positimal friction, be drawn forward. Nor doe we want just cause for our complaint, that both Gates leading into the divine Temple of Æsculapius are blockt up by heaps of frantick Chimæra's and the fabulous traditions of doting beldames; fince the true and proxime causes of difeases have to this very day, remained lockt up in the dark of undifcovery: no r have those Moles in Philosiphy ever digged deep enough into the Center of their Seminalities and first principles, or fweat sufficiently in their exantlation.

52. For how frivolous is the doctrine of Galen, through all his five books of the Confervation of bealth ? In all which long and hollow tract you shall hear of nothing, but the echo's of Baths, Frictions, and Apotherapia *, or Unction after * Apoteraxia violent and athletick exercise. And though I have with inferibitier excommiseration observed the poverty and barrennesse of emplari Elzevi-Galen generally diffused through all his longwinded dif- rame ; fed vel courses; yet in no one piece of his voluminous workes ex Helmontit have I more manifefily taken the altitude of bis wit, then calamo ad alia ocyùs festinante, where with extreme feriousnesse, he prescribes the feverall vel compositoris distinctions of positionall Frictions to be used (forfooth) incuria, boc longwaies, transverse, ablique, and circular; and these, like the vitium suam ridiculous Ceremonics of Necromancers, to be observed with duxisse originem consentapunctual and strict obedience, under no lesse then capitall neum eft. Nulpenalty. For Rome was infelted with fewer difeafes, and lum enim vothose more gentle and benigne, and warmed herselfe at cabulum tale fewer funeral fires, in her first five innocent and growing (quod sciam) apud Galenum Centuries ; then after the had triumphed over conquered reperire · eft : Greece, and among other Trophies brought home the fatall Apotherapia and infectious Libraries of Physicians. And all Europeans, autem quam who harbour few or no Phylicians, will, without any re- plurimis in locia ejusdem lib. de luctancy to their experience, confirme the fame. Conf. fanit.

ofurpatur, cujus proprius scopus est, ut lassitudinem, que immodico exercitio succedere solet, admoto oleo, submoveat atque prohibeat. Consul. Galen. lib. de san tuend.2. cap. 6, & 3. capiz.

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53. The Schools with ferious gravity wonder, that fo valt a quantity of Muccus, or glutinous gelly, should ordinarily be avoyded by ftool, upon the operation of Coloquintida; and yet that the quantity of expectorations in dileafes of the Lung, should be thereby no whit diminished : and fo while with infolent oftentation, they glory that they have found out the Antecedent caufe of Defluxions ; at the same time enchanted by the effects of Purgatives, they will by no force of argument be brought to confesse the falsity of their Phlegmatick axioms. Now Coloquintida, Scammony, Elaterium, &c. dry the body more in one day, then the Decolion of China can in three moneths. What benefic then can, in reason, be hoped from Ghina, where more exficcating Purgatives confesse their invalidity : and their use must needs be borrid ? From this, who so purblind in his understanding, as not to fee, that the pædantick Schools, adhering to the doctrines of their Ancestors, have fet up their reft in this, that the writings of the antient Ethnicks ought to be their Ne ultra in Philosophy; that they are not obliged to any deeper disquisitions, or further explorations, but onely to order their Cures, according to the antique and thredbare Theorems of Phyfick. And though they cannot but observe their Practice shame their confidence, and the fuccesse fall short of what their specious Canons promise : yet doe they not blush to veile over their bloody ignorance, nor feel compunction at their inhumane refolve, that they had rather their afflicted Patients should still remain suspended betwixt the calamities of the Disease, on one fide, and the more murderous tortures of their Purgers, on the other; then take the pains to fludy and explore any more rational and probable means of their redreffe. And, fober truth makes me confesse it, so many Myriads of Incogitancies and Absurdities, could never have thus long continued in the Schools, confifting of men fo acute, judicious, prudent, and experienced (among whom I as willingly as juftly confesse my felfe the most despicable and unworthy) had they been pleased to abate any thing of their implicite subscription,

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and recede the left step from the Axioms of Pagans. But, alas, they are closely belieged by the grand enemy of primitive truth; who holds them captived to the tyranny of his Delusions, by the chain either of Arrogancy, Incircumstellien, Cruelty, Avarice, Lazinesse, Stupidity, or, in fine, of shame to be reformed. Good Jefu ! when wilt thou be pleased to cast this devil out of the Schools? when will the measure of these fatall evils be full, and the Vintage of these foure Grapes come; that, at length, by the comfortable funthine of thy truth, this Ægyptian night may be exhaled, and this mift of horrid calamities that fits heavy on the heads of all the wretched sonnes of Adam, be dispelled? Thy answer is, there can be no remedy for his blindnesse, who wilfully and flubbornly fhuts his eyes against the light of a confessed verity. Therefore, defcent into the lungaro

Just God ! all things are just, thou dost approve; Thou unmov'd Rule of Truth, and Font of Love ! But fince we scorn'd thy wifer Lawes t'obey Wee'r made to Fools a Scorn, to Quacks a Preys mont

54. Some Anatomifts there are who have diffected a living 117 2 50 Dog; and when they came to the Larynx, drenched him with milke, or other broth, tinged with Saffron or Bole Ara meniack, to the end they might perceive whether any part of the liquor entered the lungs : and found that a very small quantity thereof gave a tincture to the fides of the Affera Arteria. On this they cried out, that there must be an insensible and ordinary descent of excrements from the brain into the Lungs; and enacted for an eftablisht truth, that Lambatives, fince they are carried immediately into the Larynx, and thence flide down into all the most flender and remote subes of the Aspera Arteria, must be the sole and extreme remedy of Confumiions, and the most prevalent means to Confolidate Ulcers in the Lungs. An experiment, in troth, of very much cruelty to the Degge; but of farre more cruelty and unhappy confequence to Man: fince, at the perswalion hereof, the Schools have delivered it from hand

* Hie Author to hand * down to posterity, as an imprægnable verity; and proculdubie allusit ad Naumaking erroneous and unjustifiable inductions upon mistalusit ad Nauken and onely imaginary positions, have subscribed unto five Naumusufopperies so pernicious.

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Spopaiav Antiquorum, à Paulan. sic descriptam. In Academia Promethei ara est: unde homines in urbem accensas lampadas ferentes decurrunt. Sequiturque victoria eum qui facem accensam conservarit; nam si extincta suerit, alteri succedenti ea traditur: cademque ratione tertio successori, si secundus non pervenerit ad metam, cum lampade accensa. Quod si nemini ardentem deferre licuerit, palma in medio velinquitur.

> For, First, what can they expect that Syrups and Lambatives should doe, in the slender branches or divarications of the Afpera Arteria, more then inevitably introduce the mifchiefe of obstructions? To what end, therefore, should these fulfome Loochs naturally and ordinarily affect that way of descent into the lungs, or be transmitted thither, or there entertained ? fince in that place they can neither be digefted, nor changed into good and nutritive or balfamicall juyce; nor yet conduce to the cure of either the puralent effluxions from ulcers, or vilcid Muccus expectorated. And further, if some part of our liquor should ordinarily drop into the lungs, then would the ordinary file of healthy men favour of the broths eaten, or fyrups lickt down. And although our first file fometimes relish of the fyrups, or other liquid remedies, newly swallowed down; yet such ariseth not from the Lungs, but Palate and other parts seated in vicinity to the jawes : nor doe the fucceeding falivous rejections, for that reason, confesse an inquination or tincture of such Lambatives, as in another cafe the fucceeding fpitle returns fuliginous exhalations or fumes, received into the Lungs, a good while after their first admission. Again, were this feazible, then would any man, who should lick up severall ounces of Syrup, in one evening, be, ere many minuts, reduced to the bosome of his cold grandmother, by the inevitable destruction not onely of an Asthma, but even of fuffocation enfuing; for a part of those Syrups must fill up and choak the great pipe or cavity of the rough arterie. Serioully, our wonder may be exculed, if we ftand amazed, how

how the Schools, feduced by fo blew and dull an experi-ment of a Dogge, have baulked the observation, that this coloured broth, or Milk died with Saffron, was rapt down in the Larynx, not by the ordinary way of Deglutition ; but unawares and preposteroufly, the poore diffracted animal howling amids his torments, and fo opening the Epiglettis. Not that the fame is done of custome in bealtby, or frequently observed in rheumatick persons. For precisely, if a man in an extreme fit of the floze, endeavouring to make water, doth chance unwittingly to open the porthole of his arfe, and confront an Irifh man; muft it therefore be the more mum proper function of the Sphincler of the bladder, when it re- a muthat method laxeth it felfe, and gives way to the efflux of the urine, mutales) sup da ordinarily alfo to unlock the fphincter of the port Afquiline? For tis no rarity, for parts of the body, when their aconomie is infringed and diffurbed into tumult and confution, by excellive pain and torture, to perform their functions depravedly; and draw other parts alfo, to which they are allied by vicinity of fituation; or connexion, into the fame diforder and irregularity. Their beliefe had been more fecurely placed upon that Hiftory of one fuffocated with a small fetber, and of another with a baire, unfortunately flipping into the rough arteries For fo had they flood confirmed, without diffute or hafitancy, that the Lungs can never admit any forraigne intrusion, or receive the imalleft grain, without confiderable dammage and hazardous anx. iety ; nay that fuch as are afflicted with difficulty of refpira tion, can by no means endure to much as fragrant fuffumigations, for reasons alledged by us, in our discourfe de Blas humanos bus entre on our alledged by us of one parts de blas

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tum Localis, tum Alterativi; idque nedum superis, aft etiam inferis. Blas Humanum verd duptes constituitur apud Helmontium nostrum. Unum nempe Naturale, qued singulis visce-ribus, prima ex conformatione, implantatum tadicaliter, per energiam radialem, vel effluvium incorporeum, in partes fui regimini confignatas, agit freune er monarchialiter : boc est, potestate ab Coluta, independenti, non locerum vicmitati, connexioni, aut Inpinitati obligata, & quolibet corporis situ aque truculenter. Per exemplum. In Fæmina bysterica, ex utero (cujus sceptro univa fam fæminei fexus aconomiam, absolute subditam, serid contendit Helmont) inspiratur blas potestativium in reliqua viscerum, qued firum eorundem primigencum, figuram, officia,

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imo & crasin etiam nativam mutet penitus, alienetque pro sui arbitrio. Unde buic utique radialiRegiminis actioni, requaquam autem putaticiis scholarum vaporibus, humorumve revera non-entium exhalationibus, quocunque etiam miasmate contagioso impregnatis, rite condonandas decrevit quaslibet uteri exorbitationes atque indignationes. Alies perinde hujuscemodi Blas Humani Naturalis effectus, nobis evidenter fatis conspiciendos exhibuit ipsa Natura, in fingulis Digeftionum officiais. Est namque constans Authoris dogma, Fel & jecur sua perficere munia, non quidem corporali contactu, congressa, aut commistione sui; nec denique amplectendo & recipiendo fuum intra gremium : aft per Aporrhæas incorporeas, influxum radialem, sive Fermentum inspiratum. Fel enim dimittit fermentale blas in intestina: & jecur suum in venas mesenterii. Alterum Voluntarium : quod per internum velle fibi motor existit, five quod voluntate animalium ad motum localem dirigitur. Huic autem thesi, sat firmo tanquam fundamini, Helmont /uperstruxit suum ariem, ad istud scholarum axioma diruendum, quo incaute admodum docuere; In omni motu locali statuendum de necessitate primum motorem immobilem. In fuo namque tramite, cui titulus Blas Humanum, ab ille fat demonstratum existimo, aliquid esse in sublunaribus, quod seip um localiter & alterative moveat, abique Calorum Blas, & motore immobili naturali. Voluntas enim primum est ejusmodi movens : movetque feipsum quoque Ens Seminale, tam in seminibus, quam borum constitutis. Hinc insuper quæcunque Insensitiva moventur, per quandam veluti Nature Volun-tatem moventur, babentque suas naturales necessitates & fines. Fusior hujus paradoxi explicatio petatur ab iplo Authore. og of strifter br

If therefore Suffumigations and aromatick exhalations, fuch as promife a gratefull fuccour to the Lungs in their oppreffions, be injurious and burdenfome; what will not groffer and flimy Lambatives do, though we grant them to arrive at the lower veffels of the lungs, with all their vertue and efficacy about them? No man, that ever faw but one diffe-Etion, will deny, that when ever any thing is fwallowed down into the ftomack, at the fame inftant the Larynx is fhut clofe by the Epiglottis, or trap doore, that carries the figure of an Ivy-leafe; fo that not the fmalleft atome can flip into the Lungs. And I have known fome men ftrangled, who had their Epiglottis not flut fufficiently clofe but on one fide, by reafon of a Convulfion of one part, and a refolution or Palfie of the other.

55. And here we are faine upon the detection of another collateral Error of the Schools; in particular, their unadvifed Affertion, that Lambatives finallowed down gently and by degrees, the bead veing at the fame time reflected into a position looking above the borizon, descend into the Lungs; but not those, that are finallowed down greedily, and at once. If so, I demand, whether

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whether the dog under the diffecting knife, did lick and by dea grees swallow downe the coloured liquor; or chop it down at once? To what purpose did the Anatomists poure it into his throat to be drank at one fwallow or gulp, if they knew before hand, that it could not fall into the Lungs, unlesse lickt down gently ? But letting this Hypothesis stand, that the Lungs absolutely abhor the admission of all external things, meer Aer and fuch as is not incorporated to Fumes and Exhalations onely excepted : and then it will neceffarily follow, that whether any thing be lickt down gently, or drank down ravenoully at once; yet still the President of the Epiglottis, or janitor of the Lungs attends the execution of his function, and observes the Clausure of the Larynx; fince thereupon depends no leffe then the hazard of life. This, I conceive, may make it indubious to the most prejudicate, that Lambatives and fyrups, though they may, by introducing an uncluous surface upon the parts, make them more fmooth, flippery, and fo more fit for the rejection of vilcid excrements flowing from the palate and other parts adjacent; yet are they of no small detriment to the flomack, nor can, in the left degree, or largest latitude of intention, afford ease or benefit in affections of the Lungs. But the Schools reply, that the falivous rheume or defluxion, doth infensibly, and by its own spontaneous laps, or natural tendency, distill into the Larynx; and that, in this relation, Lambatives must be beneficial and fanative.

56. But neither of these articles can stand; fince into what polition foever the neck be disposed, or however infleeted, yet the fame care and warineffe of Nature to prævent that nothing drop or infinuate into the Lungs, is constantly continued. I beheld a Tumbler, not long fince, frand up= on his head, his hands and feet inverted, and in that pofture drink a glasse of wine. I appeal to Anatomy, and willingly submit my hand to the ferula.

57. Many there are, out of whole mouthes, while they fleep, run whole torrents of spitle; who if they chance to fleep in a supine posture, that is on their backs, it instantly happens,

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happens, that they mult turn themselves on one fide, or awake and fit up, nature being affrighted by the terror of the danger imminent : and if any of the spitle fall accidentally and unawares into the Larynx; thenceforward, untill all be again exploded, they cough unceffantly. But, to come home to the center of the bufineffe; what comfort or fuccour can fugar, mixt with the cadaverous Lungs of a Fox, or imbued with the juice of Coltsfoot, adfer to the Lungs ; when they utterly abhor the intrusion of any forreigner, admit nothing but Aer unleffe by accident and ex improvife, and when any thing is entred into their confines, immediately reject it with great anxiety and labour ? Can fuch a remedy fuffice to the reftauration of the decayed Faculties ? Can this cut up Catarrhs by the root, or expunge the feminal miasme, or original impression fixt upon the Archeus? I professe, on which hand foever I turn me, on what part foever I place my disquisitions, I cannot discover, that the Schools war against diseases, with any other weapons, but the wilde dreams of the Gentiles, or firike at any thing beyond their effects and fecondary Productions, leaving the head and principal Caufalities unaffaulted; and all this, by reafon of their ignorance of the Effence and Caufes of Difeafes. And hence hath the name of Phyfician falne under the facete reprehenfion of Comedians, and this proverbial reproach, that Phyficians care not what they fould think, what do, or how order their meditations, in order to their obedience unto that firict Precept : Be ye merciful, as your Father which is in beaven, is merciful, grown intoufe. And, as St. Bernard, concerning the Glergy feeding upon the fins of the people, in refpect they live upon no other revenews, but Almes ; fo I concerning Physicians. For they confider not, whether they discharge their duty to the Commandment, or fatisfie the debt of Charity; who banquet and grow fat upon the defections, languors, and infirmities of the people. Often Irave I pondered, but discover I cannot, how these Plagues of Ægypt, these clouds of palpable darknesse, were introduced upon the Schools; unleffe from hence, that being feafoned

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feasoned with evil principles, and infected with unjustifiable traditions, they frequently met with Affections, which, according to their outward appearance, and without scruple or stricter indagation, they instantly referred to the fabulous scene of Catarrhs.

58. For instance, a certain fick person, invaded with a head ach, foon after feels a dull and ponderous pain in the neck, a difficulty and indisposition to motion; and the leaden plummets of Morpheus are too light to draw down the curtains of his eyes; on the neck of these Accidents enfues a manifest pain and imbecillity of the loyns, which feems to be traduced down to the thighs, and thence to make a progreffe to the legs and feet. Hereupon it is decreed, that Pain (fince an Accident of inherence) cannot transmigrate from one subject to another; unlesse something Material, succesfively trickling down from the brain along the muscles of the spine, and by a spontaneous motion arising from its own tendency to declivity, remove from a superior to an inferior part : which may very accommodately make out the received Appellation of a Catarrh. It must become our method of exploring verity, to examine and detect the dotage and improbability of this perfwalion concerning defluxions, by the judicial test of Anatomy.

59. For if this dolorifick matter diftill, by fucceffive drops, from the brain by the neck; no man can doubt, but that it must be transported thither, either through the Ventrieles of the brain, or through the *fubstance* and membranes of the brain, or betwixt the Pia and Dura mater, or betwixt the Dura mater and the Skull, or, in fine, betwixt the Skull and the Skin. For the Confequence is warrantable from a fufficient enumeration of the parts. But, first, not through the Ventricles of the brain; fince that could not come to passe without the inevitable introduction of an Apoplexy, or universal Palsie: if the doctrine of the Schools, concerning the origination of these difeases, stand firme. For if the matter of the Defluxion be excluded from the cavities in the fore part of the brain; and thence difcharged upon the

fourth ventricle, and so carried into the spinal marrow fucceffively; it cannot but horridly offend those noble parts, and being an alien and acrimonious excrement, canfe desperate and invincible obstructions, and by consequence an Apoplexy or Palsie. Secondly, the matter of this Defluxion cannot, per Slannon, by transudation through the fubstance of the brain, be first accumulated between the brain and its thinner investment, the Pia mater, and thence delaps; fo that both Coats may yet keep their continual distance and separation from the very marrow of the spine: in regard the defluxion in its descent cannot but commit a divulsion and folution of unity, in the medullary roots of the nerves, according to their longitude; (i. e.) as they run out in their diffinct diffeminations. Which wanteth not a multitude of absurdities. In like manner, should the Catarrh be rained down betwixt the two membranes ; each of those flender investments, provided by nature to envellop the spinal marrow, would be double : which Anatomical infpection could never yet justifie. And should we allow it fo to be, it would not onely impede the motion of the Muscles; but also excite extreme torture, and convulsive retractions of the Nerves. So there lieth an Error in the Thefis; fince the Nerve, indeed, is the organ delative of the mandates of the Will, (i. e.) the mediatory instrument by which the Will transmits her spiritual Mercuries on an errand to the muscles : but not Executive of Voluntary motion, (i. e.) not the immediate executioner of the commands given out. More plainly thus; the Will is Queen Regent; the Animal firits, the Nuncij, or Embassadors; the Nerve, the instrument of their transvection or delation from the brain, or white-hall of the foul, to the member to be imployed; and the muscle, the executioner of her designes. That a Nerve is not the executioner of Voluntary motion, may be clearly argued from hence; that very few nerves, in thicknesse exceeed a thread of double twisted filk. Now a Nerve, being inferted into the external part of its peculiar muscle, cannot probably convey the rheume down to the midle of the muscle, without inferring

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a Palsie of that part, from its own ebstruction, or a convulsion from the aerimony and virulency of the Defluxion. Again, if they shall affirme, that the Catarrh doth trickle down betwixt the Dura mater and the Skull; I may appeal for decifion to Anatomy, which autoptically demonstrateth, that the perforations of the spondils of the spine, through which the nerves are threaded in their elongations from their original, the spinal marrow, are so exactly fitted to their magnitude, that not a hair can be thrust between, without a fenfible Compression of the nerve; so that, by consequence, there can be no void space left for the intrusion of a Catarrh into the muscles, from the spinal marrow. We add, that though our Adversaries could find out a place; wherein this ficticious rheume may be congregated; or paffage for its defluxion upon the fpinal marrow, and diffusion thence through the perforations of the spondils into the muscles: yet, we believe, it would amuse their sophistry, to give a plaufible reason of the succeeding progresse thereof, and fally to make out, how a humor, once delapfed upon a nerve running out betwixt two spondils, can remigrate, or return back again to invade other nerves fucceffively one after the other, What, doth the wanton rheume grow weary of one nerve, and to satisfie its desire of change, at pleasure remove to another? Tis a Quere not unworthy a fubRantial determination, how a deluge of salt rheume can stream along a tender and extremly fensible nerve, without causing a ftur por, or dull infensibility, in that member into which it is inferted? Can it infinuate into the tendinous head, and thence creep along into the saile of a mussele? Can it retreat thence again, to affault other muscles successively, as the stuation of the fecond is more prone or declive then of the former, and that then the third, &c? or, if there may be a new supply of the defluxion, constantly succeeding, imagined to flow from parts above, to fresh ones below; how comes it to passe, that the fuperior parts, first invaded, obtain an immunity from the mischiefe? For since the rivulet of rheume doth spring from one fountain, the brain; and run in one continued

continued Chanel, the spinal marrow : why should it not rather follow the old tract, then wander into a new, and undergo the difficulties of forcing, and as it were mining out a fresh current? Why doth it, as if carried on by an adulterous unconstancy, desert its antiently accustomed bed; and affect the embraces of a fresh, nay frequently a feeble part? Why doth it forfake its frequented quarters, and range in queft of strang and never yet frequented lodgings ? Hath it fuch an Appetite or malitious propenfity inherent, that goads it on to variety of objects, whereon to fate its hostility? For conclusion; that this Error can expect no fanctuary, in the possibility of the rheums defluxions between the skull and the skin, and through the firme fubstance of the Muscles, each being invested with a tunicle fufficiently compact and thick : may be amply collected from our precedent disquisitions.

60. All this being fummd up, by the impartial Arithmetick of Reason, and examined by mature judgement; the total Product must amount to this : that there can be no way, medium, connexion, or dependence, by which a Catarrb may fublist, in verity. And fince no rheume or material principle can be found out to have descended, even in any of those diseases, for whose sake chiefly the Schools first invented this Chimera of Gatarrbs : Know all the friends of truth, that as often as any peregrine Aer or blast, any offensive odor, any putrefactive Ferment, or exotick Seminality is impressed upon, or conceived in the Influent fpirit; so of. ten is that contaminate and degenerate spirit excommunicated from the participation of Vitality by the fevere justice of the incensed Archeus. And the Genius or disposition of this depraved Seminality conceived, is of no lesse power then this, that it can transmit the Influent fpirit, made an alien to its primitive purity by the assumption of an exotick Ferment, rather to parts feated at distance and in the suburbs, then such as are neighbours to the Rialto or palace of life. As we shall at large declare in our discourses

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of the Gous *, of the duumvirate *, and elsewherere. For * In traslatu thus Mercury, externally applied by Unction, subtily runs (Volupe Vithrough all the body and invades the throat, tongue and ventium morteeth. Farther, when this vitiated spiris arrives at the place, putatus, nomito which it was dispatched; instantly it there imbueth the nate) ad quem nutriment of that part with its putrefactive Ferment, tranf- He'mont. funs planteth and transformeth it into a conformity or analogy bic remittit leto the idea of the Seminality : and that nutriment thus inquinated, by fucceffive expirations or Afflations, and for- caufas, atque reigne impressions, doth diforder and pervert the functions nativitatem, of the digeffive Faculty; and by this means doth not onely breviter od bunc generate a plentiful harvest of Excrements ; but also stigma- modum descrip. tize, or impresse this depravity upon the Implantate spirit of Podage (in that part, fo deeply, that it can hardly be expunged during quit) eft charathe whole after life. All which the Schools, like mendicants, fler morbidus, precarious desume from the brain; & erroneously impute to siminaliter in their four imaginary Humors, and the defuxion of Rheums. spiritu vitæ in-On which Confideration, my Theory ftands point blanck maturitatis terin defiance to the doting tradition of Catarrhs ; as politive- mui, fructum ly denying and wholly subverting their material Caufe, re- acidum fermenceptaries or places of cencretion, efficient Canfe, and manner of talem gignit, Generation and Defluxion : and separating the true Causes, spermaticis par-Effects, and method of Sanation, far from the ridiculous tabilem. existit ergo Pofictions of a Catarrh. ¶ dagra in cruore;

bus antiquitus Hores, Arthritidis naturam, Podagra (in-Non

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multoque minus in excrementis. Verum Podagrici primum agitantur in pracordijs, & tom internas potuum atque ciborum, quam externas aeris vicissitudines sentiunt; imo & sape has futuras presagiunt. Quare patiuntur sebriles motus primum, circa officinam spiritus Vitalis. ac quidem paroxy smi initiis. Etenim primi motus è præcordis ascendunt, sedem anime sensitive adoriuntur: Conceptus namque in pracordiis Character, Luna atque Mercurij 19pos explicat : atque deinde in corde perficitur. Formatus antem five maturatus Character, Spiritum ibidem febrilem induit, quatenus inficit. Qei simul atque acorem symbolizite sive fermentalem concepit, motu febrili abigitur squallens, & ad loca destinata (crudi viz. Spermatis in symmia Articulorum) febriliter deferter. Spiritus, inquam, fic infectus, et non humor (quod notandum) synoniam in le transparens, cum Aciditare fermentali coagulat in gri mum opacum. Adiout præ ponticitatis conceptæ gradu, calores, delores, tumoresque pedagræ distinguantur. Laticem vero advecari doloris buccina, & per venas dimitti, od eluendi m, ceitum est. Itaque ron quod dolet, quod tumet, vel ardet, Podagra eft : sed bujus sunt producta. Neque enim per pilam bombarda sublato pede, ablata est simul podagra, sire Arthritis : squidem in sensatione per organum sensus, fit tantum consensus partium, &c. Sed horum fides esto penes Authorim, 61. By * Lege jus duum viratus Helmentij. K 2

'61. By this time, we believe, it is plain and unqueftionable, that no falt, acid, fharp, phlegmatick, or Cholerick humor can diffil from the brain; but that, whenever the Influent spirit, polluted with some alien and putrefactive impression, doth arrive at any part of the body; then doth nature, without delay, fend thither the Latex, or fourfe of serous humidity, to expung this impression, or at least rinle away the Excrements, there growing from the depravation of the digestive Faculty. For the Spirit, once vitiated by any forreigne Contagion, wildly rangeth at pleasure through the nerves, arteries, yea and the very babit of the body; whereupon, the fick feeming to feel as it were the defluxion, or trickling down of a cold rheume, the brain is immediately accused as treacherous, and the grand author of this ryot and irregularity in nature. Now fince the Latex is fent to the part newly invaded by this malignant impreflion, not as the primitive Caufe of the evill (though frequently, by accident, it doth foment and aggravate the mifchief, and so make the vitiofity more durable) but as a relief, or ftream to wash away the impression : hereupon have the Schools, to this day, remained doubtful, and durft never go fo far as politively to determine ; whether in the Gout the Catarrb is derived from the bead, by the Nerves : or whether transmitted from the Liver onely, by the Veins. And thus evident it is, that the Phlegme and Choler of the Schools flow not from one fountain, or Cataract; as though the brain were the Common ferer of all these impurities. A. gain, as for the last refuge, whereunto the Schools flye, for protection of their impossible dream of Catarrhs; namely the Declivity or downwardneffe of the fituation of the members, as in relation to the brain, and the facility of the paflages: it may ealily appear to be too rotten and fragile to afford them shelter. Since as in dead bodies there are none of these respective situations, but onely in living; so also all motion of humors in the body is immediately caufed by the Influent spirit, as the onely impetum faciens, and mediately derived from the Principle of vitality in whole occonomy the

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the Ascent of humors is of no more difficulty then the descent. For in living bodies, no humor oweth its motion downward, to the declive tendency of its Gravity : but, in impartial truth, to the aim or direction of that miffive power, which levelled it at this or that determinate part. Hitherto concerning the impression of an External depravity upon the Influent spirit : it follows that we declare the probability and manner how the fame Spirit may conceive, and as it were batch an internal Character, or domestick tincture of corruption. It comes to passe not feldome, that the Latex contaminated by the admixture of fome forreine Salt, doth therewith infect the Influent Spirit, fo that it inftantly becomes degenerate from its requifite fimplicity and purity; though not by reason of any external injury of the aer, offensive edor, fulphureous Fume, &c. but from a breath or blast of Contagion conceived in the part affected : yea that taking a diflike or abhorrence from the Latex (as being polluted, and fo uncapable of its vital irradiation) it grows enraged and forgeth within itself a character of anger and revenge. After this the uncivil Lstex, like a rude souldier that intrudes himselfe into quarters against the will of the Landlord, forceth itself into the society of the offended Influent firit; and though unfit for its conversation, as well in regard of its Acidity, as immoderate quantity, yet it still followeth and hangs upon its skirts. In which relation, the most hopefull remedies for most of these diseases which cause erratick paines, as also for internall Ulcers, must be Baths, Sudaries, and Stoves or Hot. boufes : for by procuring liberall and profule fireats, and by that means exhausting the Later, as the fecondary and fomenting materiall Caufe, they feem more directly perpendicular to health, and conducible to the pacification of Archeus his worthip ; then the more ineffectuall and languid Solutives and Exficcatives of the Schools. T.

Vaine, therefore, is the ftory of a Catarrbs arifing originally from the ftomack into the head: and its Condensar tion, Concretion, and Congregation in the ventricles of the

the brain. Vaine are the descriptions of its Defluxion, between the coats of the final marrow, or between the skull and skin, upon the Mufiles. And, of necessity, vain and deplorable must fuch Remedies be, as are administred when the Causes of the Diseases are wholy unknown. Vain also are Cauteries and Fontanels, for the Revultion and Exhaustion of Humors, that have no real existence in nature. And to conclude, vain are the Decotions of China, Guajacum, Saffafras, &c. exficcating Drinks; fince the evill arifeth, at least is occationally aggravated by the Latex, and mult be fomented by any immoderate quantity of humidity. From whence we have a faire opportunity to collect, that fober and parfimonious drinking doth very much conduce to health; nay to the cure of Vlcers in the Lungs, as also of the Goute. Since the Latex, which according to the Primitive institution of nature ought to be infipid, upon the excellive drinking of eager Wines, fuch are French, Rhenish, and Sherry, doth acquire a manifest Acidity, or fowernesse, and instantly communicate the fame to the blood; from whence proceed Corrosions, tharpe Spasmes and Convultions, errattick paines, and chiefly the Gout. But of the history and neceffity of this Later, we have written a particular Difcourse. ¶ 62. You may please to remember, that the primitive Mate-

* De verum

rial of all concreted substances, is onely Water *: and all fruits or productions of mixt bodies arise from the same principle. naturalium primordiis, per Mechanica Pyrotechniæ experimenta, suo de more, inquirens Author, in tract. de Elementis; due duntaxat reperit Primitiva Elementa : Acrem scilicei & Aquam. (1gnem namque Ens Anomalon, & adnibilationis ordinario capax : Terram vero, fecundarium tantum elementum, five fructum ex Aqua, virtute feminum, concretum, co quod tandem cenvertibilis fet in aquam, per privationem (ue effentia, effe existimat.) In hanc autem sententiam se incidisse fassus est, exinde qued per Hermetis ignem didicisset, omne corpus visibile, puta faxum, lapidem, gemmam, filicem, arenam, marchasitam, argillam, terram, vitrum, calcem, fulphur, Oc. transmutari in Salem actualem : & qued Sal ifte, aliquoties cum Sale Circulato Paracelli cogobatus, suam omnino fixitatem amittat, tandem transmutetur in aquam insipidam; & quod aqua ista æquiponderet sali suo, unde manavit. Nec in contrarium valet, quod

imperitus aliquis forsan objiciet; Vitrum effe ultimum artis subjectum, quodque nes igne nec arte

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into

a te deleri, aut in aquam reselvi unquam possi. Erudietur enim, si Vitri pollinem pluri Alchali colliquaverit, ac humido loco exposuerit; mox totum vitrum reduci in aquam limpidissimam: Cui si affundatur Chrysulta, addito quantum saturando Alchali sufficiat, inveniet statim in fundo arenam sidere, eodem pondere, quo prius saciundo vitro aptabatur. Idem etiam sperari possi effectus ex Universali illo Menstruo, Liquore Alchahest; qui omnia totius universi corpora tangibilia persettè reducit in aquam diaphanam, absque ulla sui mutatione (i.e. quoad Formam essentialem, sive nativam seminis dotem) viriumvè diminutione. Hujus autem stupendi sane Magnalis preparationem, à Paracelso, vel Bassilio Valentino Monacho olim inventam, su ab Helmontio, veluti Arcanum nemini, nist dato prius Sacramenti pignore, revelandum, subdolè desossami, me aliquando, ubi dabitur occasso, ceram mundo liberè promulgaturum, spondeo.

Let us therefore grant, that the Latex, being naturally infipid, doth, upon the accesse and fermentation of any feminality, or fructifying tincture, instantly grow Acide. By example, in the beginning of the Spring, if you make an incision in the rind of a Vine or Birch tree, neer the root, there will distill forth a very great quantity of thin infipid liquor, which is nothing but the water freshly attracted out of the earth : but if the incifion be made higher in the flock or branches, then will the liquor be a little Acid. The reafon is the fame in the Latex, which being natur Ily infipid, doth, if contaminated by the contagion of any ferment admixed, acquire a sensible Acidity, and inherit any forreine quality, or tincture devolved from the vitiolity of our aliment. This Later the Schools have wholy neglected, and indeed because they confounded it with the Urine. Tis a blind and rude method of exploring the fecrets of nature, to make no diffinction betwixt the Generatum, or production, and the Materia ex qua, or materiall cause thereof; no difference betwixt the Mother and the Daughter; as if the Muccus ordinarily dropping from the brain by the nostrils, the falivous bumidity of the jawes and tongue, the Water effused betwixt the omentum, muscles of the belly and the skin, in the dropfie, and the Urine, were all one and the fame matter, namely the liquor we ordinarily drink. The Liver therefore being milaffected, and invaded by any hoftile impression, if it found a retreat to the Later, and call back the ftreams thereof to its own affiftance ; doth not convert it

Ta bisiname into Urine, but makes it the material cause of ædematous Tumors, or an Anafarca a.

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Hippocrat. lib. de natura hominis, appellantur tumores'laxi, molles, indolentes, ad digiti compressionem cedentes, à pituita tenui, seu frigidiore & humidore parte massie sanguines ortum ducentes. A "Anafarca est tertia hydropis species; quam quod universa corporu moles aqua lenta & concreta suffundatur, Anafarcam & Leucophlegmatiam(turpiter enim ballucinatur Aretæus, in 2.de diuturn. assect. cap. 1. dum discrimen quoddam inter Anafarcam & Leucophlegmatiam imaginatur) Græci nuncuparunt. Illius autem originem & naturam fuse aperit Hipocrat.lib. del meSav.

63. I am not a person subject to such extravagancies and wild fingularities, as to affirme, that the Pleurifie, Tooth-ache, and other fuch maladies, whole tortures were infufferable, were they not in fome fort moderated by their acutenesse, or brevity of duration, are no real Emilies. For I too well know, and lament their tyranny over us. I admit them as Dijeases : but oppose the vulgar tradition of the causes, maner, means, waies, end or deltinations of Catarrhs. Those fictitious and inconfiltent causes I deny, and explore other more reall and probable; in whole remove, the direct way to the reflauration of beath doth confift. I acknowledge that any man, upon the rupture of an Aposteme in the Lungs, may die suddenly : yet I positively deny, that a Catarrh is the cause of this Aposteme, or that death is ushered in by a Defluxion. And with much more earnestnesse I deny, that an Aposteme in the Lungs can be generated from vapours exhaled from the flomack, and recondensed in the brain. For which reason I account not a Consumption the daughter of a Defluxion of rheume upon the Lungs; but the genuine isfue of their own Archeus seduced into irregularity, and a depraved execution of the power delegated to his administration. I conced that the Gont may be præsaged a day or two before the invalion of its paroxysme from the sensation of the motion of the falt matter which runs to the joynts like a drop of scalding liquor : but cannot allow a Catarrb to be the cause thereof, tince I know affuredly that its material principles, manner of generation, waies of distillation and places of concretion and collection, are prodigious figments

figments, irreconcilable to truth. But the Latex, ordained by nature to wash away the impurities from all parts official to concoction (like the river Alphens brought by Hercules to cleanse the stable of Augeas) is of itself innocent and infipid: but in its course meeting with the pollutions of faline tindures, refulting from impure and inconvenient aliment, it foon degenerates into burtfull and acrimonious, and breeds Apostemes, Vicers, and pruriginous maladies, as the Itch, Seabbs, &c. I cannot fool my own credulity fo far, as to apprehend any probability in the common opinion, that vapours can afcend out of the flomack into the plane of the brain, be there condensed into water, where is a constant actual beat; and thence penetrate through the fubftance and double investment of the brain. Nor can I shake hands with that impertinent herefie of Paracelius, that the aer drawn in by inspiration is carried down directly to the ftomack, and other viscera of the lower belly : but allow that a very small quantity thereof is infenfibly firained through the capillary perforations of the midrife. For in long compression of the breath, neither any confiderable intumescence of the Abdomen can be observed; nor doth the breath, upon its effation, fmell of any thing conteined in the parts below the Midrife. In like manner can no vapours of Wine or other inebriative liquor, arife up to the head, unlesse by the Arteries*. For whatever procureth *See Deftor vertigoes or giddineffe in the head, fwoonings and other in. B wne in the toxicating Accidents, belongs to another Common-wealth, fecond book then that Eutopia of vapours. Non from the Wimber can cl vulgar ervapeurs be transmitted into the head; however vulgar Pa- rors. cap. 6. thologie affirmes, that wild and durable perturbations of the tion. Animall Faculties, and a firing conseptition of reason, are derivatory from molignant and narcoriall exhalations arising out of the wome. For those surious notions and actions of the mairix are not to be afcribed to any fympathy dependent on the necessity of Perffirability; tut to the minimachy or civil war of that reculiar Monarchy of the won be, wherein women ferm to be firangled by en afcention [of

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fome certain globular body, or lump, up to their throat. This action is a commotion or tumult of the offended spirits refiding in that part, or an error in the government of the Archew, or uterine President enraged, to whole arbitary power all parts of the body mult doe how age and conform as I have amply explained in my Treatife called Ignots actio Regiminis. For the dominion of which the Womb hath over all parts of the body, is no leffe absolute or diffusive, then that whereby the Testicles diffinguish a Cocke from a Capon, a Bull from an Ox, and a man from an Eunuch; as wil in the Figure of the body, as the blood, flesh, skin, and unimotity.

bie4. But in regard all those difeases conceived to proceed from Catarrhs, the contaminated Latex hath obtained a peculiar superintendency or domination over the other humors of the body, and responds to the nature of Water : therefore doe all Accidents accompanying fuch infirmities observe their periodicall exacerbations most toward night ; the influence of the Moone, queen regent of all humane fubfrances, operating those vicifitudes, or causing ebullitions in us at those houres. And these Accidents display their hostility most upon the brain, weakned by any native or acquired diftemper præceding : as alfo upon the Nerves and Adembranes, as parts whole fmall flock of Vitall beat makes them leffe able to refift or fubdue the impressions of externall Cold. And hence is it, that Confumptive, Hydropick, Goney and decaying, bodies carry an infallible Almanack in their bones, prefage change of weather, and by the Augurie of their pains are forewarned of enfining tempelts : which I have, for that reafon, Christned Torsura Notis, the corture of night. It is my ferious Utinam, and may be many others, that this way of prognoffication had not coffus fo deare, as the fufferance of fuch intolerable anguith and anxiety. For almost every week observes unto us, that men once inured to weare the fetters of the Gost, or tainted with any imperfection of the lungs, yea fuch as are onely troubled with comes on their feet, are fuddainly awakened out of their

Profoundait fleep, by the twinges and cruell mementoes of their infirmities, against change of weather: and by this fmart advertisement can at midnight tell, that Juns hath put on her fable weed of Clouds, and that the unconstant winds are tackt about to another point of the Compasse.

65. Paracelfus was pleased to opinion, that Mercury was Lord Paramont, or President over the Alimentary liquor, through the whole body: and for that reason, in another place (de morbis mineralibus) both in name and reality, he confounds this Planet with the terrefinial Moon.

66. But we, on more substantial and precise grounds, stand affured, that each nutritive bumor of the body doth conform to the regiment, and obey the alterative influence of that feminall part, unto which it is proximly to be affimilated : nor doe the liquid substances in the body hold any correspondence with the Stars, fo long as they are not radically inoculated into the flock of Vitality, i.e. untill, by the irradiation of the internal Sol, or vital Spirit, they are rarified and exalted into a finenesse requisite to their participation of life. Which is a convincing argument, that the Marrow in the bones is an homogeneous part of the body; but no alimentary or liquid substance : since it is evidently subordinate to the Moon ; and the brain, to whole influential power the bones are subject. And thus all diseases conceived to tyrannize over man, under the miltaken name of Defluxions, as allo the Veneral Contagion, or French Pox, Contractions of the finews, torments of the joynts, &c. fall under this one generall title or denomination, Tortura NoElis : in this interest, that their Paroxy fmes or periodicall invations depend upon the motions or ebullitions of the Latex, are regulated by the influence of our Mom, and observe their tides or vicifitudes in exact conformity to the various motions, positions, and configurations or reciprocal Aspects of the Planets. 9

