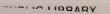
ACPL ITEM DISCARDED

LONDON, 1618



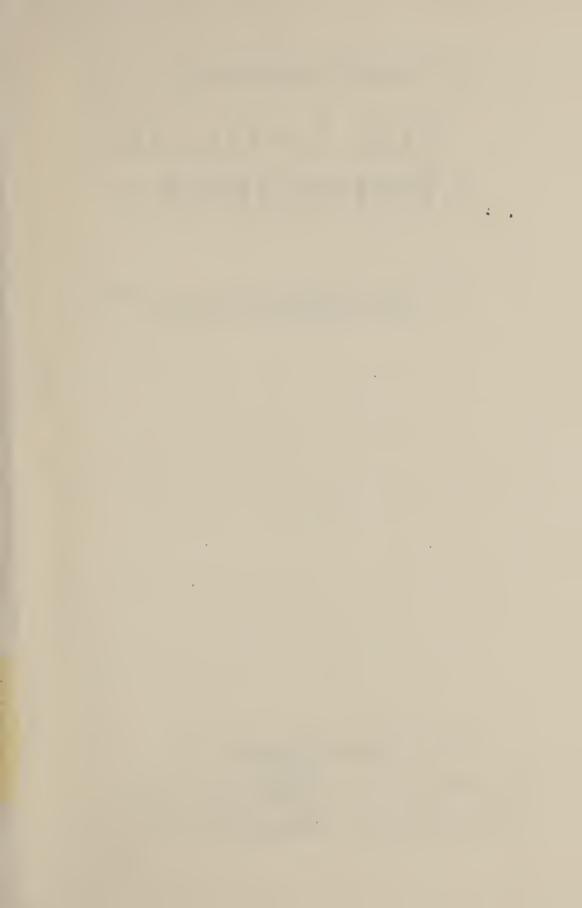
* r613.8 Sa260 2000451 B-867

REFERENCE





JUN'0 1 .18



NUMBER 892

THE ENGLISH EXPERIENCE

ITS RECORD IN EARLY PRINTED BOOKS
PUBLISHED IN FACSIMILE



ANGELO SALA

OPIOLOGIA

LONDON, 1618

WALTER J. JOHNSON, INC.
THEATRUM ORBIS TERRARUM, LTD.
AMSTERDAM 1977 NORWOOD, N.J.

The publishers acknowledge their gratitude to the Curators of the Bodleian Library, Oxford, for their permission to reproduce the Library's copy, Shelfmark: 80.S11 Med.

S.T.C. No. 21594

Collation: A-G⁸.

Published in 1977 by

Theatrum Orbis Terrarum, Ltd. Keizersgracht 526, Amsterdam

&

Walter J. Johnson, Inc. 355 Chestnut Street Norwood, New Jersey 07648

Printed in the Netherlands

ISBN: 90 221 0892 9

Library of Congress Catalog Card Number 77-007431

OPIOLOGIA.

OR,

A Treatise concerning the

Nature, properties, true preparation and safe vse and Administration of Opium. 2000451

For the comfort and ease of all such persons as are inwardly afflicted with any extreame griefe, or languishing paine, especially such as deprine the body of all naturall rest, and can be cured by so other meanes or Medicine what seener.

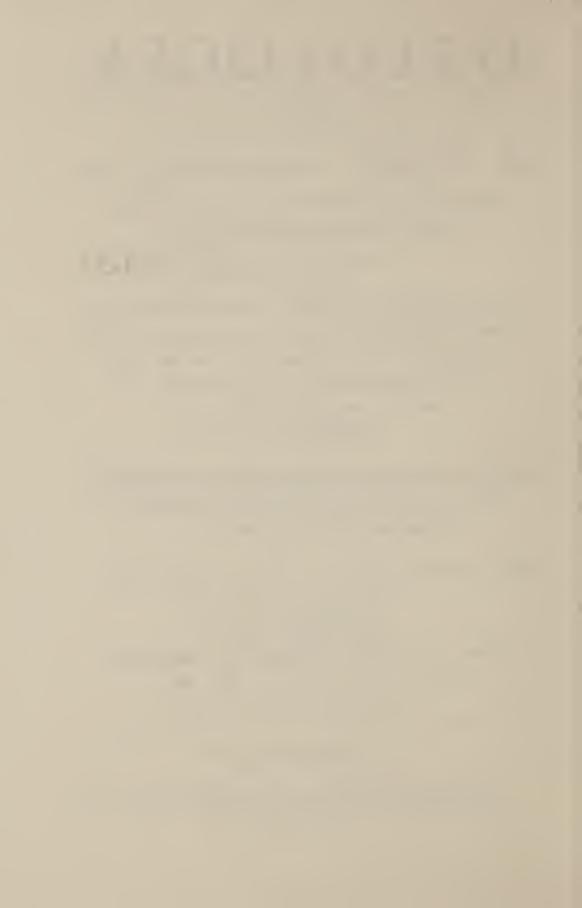
Dedicated to the Illustrious, High and Mighty Lords, the Estates generall of the vnited Prouinces in the Netherlands.

By Angelys Sala Vincentinys
Venetys.

And

Done into English, and something inlarged by THO. BRETNOR. M. M.

Printed by Nicholas Okas.





To the Learned, and my worthily respected friends, D. Bonham, and Maister

Nicholas Carter
Physitions.

EE not offended, worthie Doctor, if I presume to parallel you with a Physition, which neither is nor wilbe dubbed Doctor for any mas pleasure, nor cares a whit for any clothing

pleasure, nor cares a whit for any clothing in Byse, how worthy some. For the which I blame him the lesse, sithence neither Aesculapius, Hippocrates, Galen, Anicen, nor any other of the old stampe wer assumed any such title, though better given them. But tempora mutantur, and therefore now addies for distinction and decorum seke it is very convenient

The Epistle

and necessarie to give such attributes, especially to men indowed with so excellent a qualitie as the true knowledge of Physicke, and guift of healing is. But how vilely this worthie Science and profession is traduced and abused! Witnesse the multitude of Mounte-bankes, Quack-saluers, Horse-leaches, Cunning-women, Imposters and Vpstarts, who having learned (my chance) the Calcuning of Mercurie, the preparation of Antimony, or the composition of some home-spun medicine, and having scraped together some triviallexperiments out of some old Manuscripts, or from some brazen-fac't Bragadotio, will presently for sooth set the Physition at open desiance, boasting and protesting that they have faved the life of twentie, whom such and such a Physition had quite for sakon and given over for dead. Nay I have beard a good fellow. I will not say a Pharmacopass, and that no simple one neither) bouldly affirme that if hee should not now and then adde or diminish something from the Phylitians Bill, the fat were in the fire,

Dedicatory.

fire, and twere as much as the Patients lifewere worth, aggrauating the matter in such manner that my very eares have glowed to heare it, seeing that by this their scandalous detraction they arrogate to themselues and impose upon the simple people, bringing them into focles paradise! But the Physitions are well enough served, for if they would expulse one packe of these, snaffle another, and take a little paines with Fornelius, to prepare or see prepared their principall Medicines, and not to be so idle as to give too much credit to the Druggist, nor let each giddie-headed fellow be partaker of their secrets, it were doubtlesse better for the Common wealth, more profitable unto them selves, and more pleasing unto God: but of this inough. There resteth nothing now (my worthy friends) but that you would vouch afe to stand betwixt me and such malicious detractors; for if they dare baspheme the tall Gedars, what will they not doe unto the lower shrubs. The subject of this treatise is so well knowne unto you, that how-A3 Soener

The Epistle Dedicatory.

Joeuer Some nice and Scrupulous persons may make question of the veritie of the passages, or of the safetie and excellencie of the medicine, you are so well instructed in the composition and vertue thereof, that no wise man will oppose you, some may imagine that I might have made better choice of some famous and remarkable Collegians for my patrons, but unto you onely and unto that worthie Doctor Gwin am I obliged, whose multiplicity of learning, judgement and discretion, accompanied with affibilitie, humanitie and curtesie is more then apparantly knowne to all your acquaintance; Let me therefore craue this boone at your hands, that you would accept this simple translation as a testimony of my louing remebrance towards you, and that you would defend it from the ob-

trestations of scandalous tongues,
and you shall ever
make mee

Yours,

THO. BRETNOR,



To the ingenious and indifferent Reader.

HE cause mooning mee (curteous Reader) to traslate and publish this smal Pamphlet, was not onely the scarsitie of the French

Copies, but the especiall want of such a Treatise in our owne mother-tongue: for not onely the rude multitude and men of some judgement through vaine delusion and superstitious searc, but many Physitions themselues through a Galenicall perswasion, make no small question and scruple whether Opium may bee taken inwardly or not; Nay, I have knowen men of good discretion so sarre infatuated by conceipt and A A hearc-

heare say as they have rather chosen to indure intollerable paines then they would take three poore graines of well prepared Laudanum: but I cannot greatly blame them, for the naked truth is, many moderne Phylitions know not well what to make of it. Forestus Montanus and many others with Galen abfolutely conclude, that it is stupefying and cold in the fourth degree at least, and therefore not fit to be inwardly taken at all, but in Syncopes and extreame necessitie; Mercatus is indisserent. Capinaccius is forced by common experience to grant with Auicen, that for its foure degrees of coldnesse it is furnished with three of heate in operation.

But Platerus, Bauhinus, Zwingerus, Scaliger, Quercitanus and others affirme with Rhasis, that Opium is rather hot then cold, sceing that in tasting thereof it doth Palatum & linguam vrere, caput tentare, Sudorem prouocare, venerem promouere, sitim excitare, pruritum in-

insignem parere, animositatem siue potius furorem inducere, and being outwardly applied doth (contrarie to all cold things)blister the skinne, discusse and mollifie hard tumors and nodes. Bur whether it bee hot or cold it skils not much, seeing it is confessed of all true Physitions, that it doth ex forma specifica, naturally resist putrefaction and wonderfully and speedily release the hodie from intollerable paines: for, let the torments or griefe proceed from what cause soeuer, either hor or cold, inward or outward it worketly the same effects, so that this onely Medicine well prepared would doubtlesse faue many thousand mens liues that trauaile or saile, sub aquatore vel pole Arttico, into the East Indies or Northerne discoueries, vader the hottest or coldest climes in the world, seeing it resembles much the oyle of Vitrioll, Vinegar, Chymicall salts and such like, which are given with good successe as well in cold as hot diseases: but what needs

needs many words seeing the Author himselse hath sufficiently discouered the benefit hereof, I onely wish you to haue great regard to its preparation: for as in most Physicall Drugges there remaineth some bad qualitie or other which needeth correction, so doth Opium require Vulsans helpe, and other specificall meanes to drive away its sulphurous malignitie: you may read in Quercetane his answere to Anonimus Cap. 2. and in Sennertus his Institutions Lib. 5. part. 2. Sect. 2. Cap. 1. that the ancient fathers of Physicke made their chiefest Medicines with their owne hands, and intituled them after their ownenames, which many retaine to this day, but now the case is altered; The Merchant he will have his Factor, his Casher and his Broker too, the Grocer his Garbler, the Vintner his Cooper, the Gold-smith his Forger, the Draper his Cloath-worker and Drawer too, the Physition his Apothecarie, The Apothecarie his Druggist and

and his Workeman too: for few of them make all their owne Medicines. In briese 10hn wilbe a Gentleman at least. But me thinkes, the life of man (so pretious a thing in the fight of God) should not be so little esteemed of as I feare it is in posting ouer hither and thither, I would be loath to be mistaken, or haue any man thinke I goe about to correct magnificat, or teach others having neede of instruction my selfe, but ingeniously (as any conscionable man ought) declare my opinion, and to let the friendly Reader know how hee may bee abused if hee looke not about him; for mine owne part, I wilbe so bold, if able, as to prepare the chiefest Physicke I vse my selfe, and for the Medicine handled in this booke, they may have it well don of my friend Harbert whitfield in Newgate-Market, of Maister Bromhall, who hath conferred with the Author and some others, mo doubt about this towne. And so intreating

treating thy gentle patience for these rude lines, and thy kinde acceptance of this homely translation while better is abreeding, I eucrest,

Studious of thy health,

THO. BRETNOR.

The



The Authour his Preface to the Reader.

Make no question (Curteous Reader) but as soone as this little Pamphlet shall come abroade, there wilbe some which will presently beginne to taxe mee; saying,

what fellow is this Sala? will hee (like a Master) teach vs what Opium is, and how wee should prepare an excellent Medicine thereof called Laudanum, which will presently appease all griefes of the bodie, extinguish all extreame heates in Feuers, stay all Fluxes of the belly, pronoke quiet rest to the diseased, &c. are not these onely two things, the one whereof hath beene disclosed to the world many ages agoe, the other renealed to vs of late by sundry moderne Physitions, so that wee stand not in need of his instructions, hee might well inough have spared his breath to have cocled his pottage.

Towhom I answere first (concerning the naturall propertie of Opium) by demanding of them what

what ancient Physition was there ever, who hath written of, or declared the nature and vse of this Medicine so well, or so amply given such infallible and true reasons of its vertue and energie, but there may remaine some gap open, or some subiect or other to worke upon, wherein they may bee controuled, and whereto or from whence a man may adde or diminish something more or lesse: beleeus me (I thinke) they would have much adoe to finde me such an Author; for if it were so, to what ende should they dispute so often in their publike Academies and private consultations of the naturall qualities of Opium? were it not a notable argument of vaine curiositie rather then of solid judgement or discretion to dispute against a distrine already reduced into necessary and irreproveable Maximes as they imagine? But the naked truth is, that the vse of Opium is yet doubifull among the greatest part of Physitions: which being granted, I know no reason but that if it bee lawfull for an other to argue and dispute of many things beside the common conceipt and apprehension of the Ancient: it cannot be accompted idlenesse or vanitie in me to otter my opinion also being grounded upon rationall termes, and agreeable to the authoritie as well of ancient and moderne Sages as mine owne peculiar experience and observations, collected and gathered for the instruction and benesit of such onely as shall have occasion to make good

good vse of them, not taking vpon me in this trast or any other to teach any man; much lesse those which thinke they know already much more then

my selfe.

Secondly (concerning that objection that divers Physitions have written and made mention already of the Chymicall preparation of Opium as a principall ingredience into that excellent Medicine called Laudanum) I deny not their affertion, but rather rely upon their authoritie, and am partly satisfied with such things as they have already divulged, as may appeare hereafter, yet notwithstanding the whole world can beare mee witnesse that neither Laudanum nor the vse thereofhane beenc things commonly knowne; for it is a thing most certaine, that among a hundred Physitions and Practitioners in Europe, a man can hardly finde fiftie that will take paines to read ouer the workes of Paracellus, or any other Spagirique which hath written of this subject; much lesse can the thing it selfe bee common or familiar vnto them: among those fiftie a manshall hardly finde twentie which make vsc of it: among hose twentie it were strange to finde ten which are able to prepare it with their owne hands, and among those ten it were rare to finde three which durst freely publish or manifest its vertues to the world, or propound the vse thereof in their private and particular consultations for the benefit of the diseased; or mains

maintaine the same for such a soueraigne thing as

I am very well assured that although the most part of our Physitions here at the Hage doe sometimes make vse of this Medicine, yet aman may trauaile into a hundred Cities in Christendom where the Physitions neither vse it nor make any more accompt of it then of a thing altogether strange vnknowne and of no vse in the world.

Furthermore, if we come to a popular examination thereof, I am perswaded that in this very Citie (notwithstanding the aforesayd) among a thou-Sand men and women which know the name and vse of Treakle, Mithridate and other ordinary Medicinall compositions, and can apply them to their best vse and behoofe when they are diseased or sicke, yet a man can hurdly find twentie of them which haue once in their lines heard one speake of Laudanum, the knowledge whereof no question had beene as requisite and necessarie as of either of the aforenamed.What great matter is it then if Iames, Martin, Francis, &c. knew what Laudanum is, and the vse thereof, when so many thousand men know nothing at all, many of them in the meane time languishing and complayning of extreame paines and want of sleepe even to death, and can finde no ease at all, unlesse by meanes of this excellent and pretious secret, or such like: Well then, Let us put the case that this my Treatise were good

good for nothing else but to inlarge and make knowne the name of Laudanum among the rude multitude to give them occasion (when time and oportunitie shall serue) to inquire and demaund for it of their Physitions, or of others which shall have the same by them, whereby they may be assisted and fortified against sundry daungerous accidents which by no other meanes can be so quickely, safely or easily anoyded; so that if it were for no other reason then this, my labours (me thinkes) were not unworthic regard; but the profet which may redound to many persons by this discovery is not small, as the discreet Reader may casily perceive hereafter. To conclude with the common prouerbe, As hee cannot spit sweete whose throat is full of gall, no more can such as are stuffed with their owne passions (thinking themselues onely wise) euer speake well, or commend others labour or knowledge then their owne, yet notwithstanding, neither these nor any other obstacles what soeuer, either ought or can hinder the good will and entire affection of him which descreth the advancement of Art to Gods glorie, the benefit of his neighbour and his owne prinate toy end sontentment.

Whether Chymicall Medicines in generall are more violent and dangerous then other ordinarie Medicines are; and whether in respect thereof a man may lawfully administer them except in desperate diseases onely as some imagne?

A man shall finde some Physitions in the world which (having no skill in Chymicall art) being demanded of their patients and other people, what they imagine and thinke of Chymicall Medicines and their vse ingenerall, will not altogether blame and reprodue them (as not long since many did) but in answering perhaps will say, the Medicines are indifferent good, but are alwaies more violent and dangerous in their operations then other ordinarie Medicines are, in regard whereof they ought not to be vsed but in desperate diseases onely.

Therfore before we speake any more of Opium, or the Chymicall preparation thereof (for the better purging of chymicall Medicines and such as vse them from suspition and blame) I thinke it fit-

test to resolue this question on this fishion.

First, it may bee easily perceived, that these Learned M. M. by this maner of answering fall into a double error, and are therefore worthily taxed in two principall points which makes their consequence unsavery and idle. First, that they

indge

skill nor exact experience at all, so that what they answere in this point, is either by some vaine coniecture, blind tradition, or idle report; secondly, by making no distinction betweene generall and particular, they condemne all Chymicall Medicines

without exception to be such as a foresaid.

But leaving to reprove the former of these two points, as a thing exploded by each discreet mans conceipt, let vis insist a little to confute the later: in prossing that they wrongfully impose violence and churlishnesse to chymicall Medicines, seeing that under this generalitie they doe not only condemne those excellent Vomiteries and Cathartickes of Autimonie and Mercurie, but also all other kinde of Vomitiues, both mean's and gentle, all kind of Vegetable, Deiectories or Purgatimes from the strongest to the weakest, even from Scammonic to Aloes and so the very Rose, as also all other formes and degrees of Med cines, whether they be Diaphoreticke, Diureticke, Vulnerarie, Bezoardicke, Cordiall, Anodyne, Somniferous, Roborating or Specifically appropriated to diners parts of the budie, or resisting diseases of divers natures, and finally all other kind of wholesome and necessary Medicines, vsed generally as wel among the Spagiriques asother ordinary Physicions, differing only in maner of their composition and preparation.

Here-

Hereby you may at first dash perceive that if they would speake any thing against the vehemence which may subsist in any Chymicall Medicine what soever, they should change this generall enuntiation into a more particular, and say, among Chymicall Medicines there be some which be vehement and not to say absolutely and generally that all Chymicall Medicines are so in performance whereof we will do them right, and presently draw them to confesse that wee onely have not some vehement and churlish medicines, but that they themselves also have the like, no man can deny.

Seeing therefore we accordinthis (as wee cannot choose) if they will further aggrauate the former accusation, they must of necessitie produe that
chymicall medicines of a vehement nature are
more churlish and daungerous then their ordinary Medicines of the same nature are, as also that their milde and gentle Physicke Chymically prepared, becommeth more dangerous then before, but (alas good men) they can prove no such
matter.

For primarily touching those Chymicall Medicines, which they pretend to be vehement (as those of Antimonic and Mercurie vomitive) there is no question made among understanding Physitions (besides daily experience) that being compared with those vehement vomits which the auncient Physitions have presented, as those of white Hel-

lebore,

sebore, Tythimalls, Spurges, &c. they would bee found as gentle and familiar in their operations, as Sena and Rheubarbe are in comparison of Scammonic, Colocynthis, and other wehement and alte-

ratiue purgatiues.

And furthermore, if they should say that they neither vse white Hellebore, nor Tithymalls in regard of their venemous proprieties, or because they are found daungerous in working, this is the thing wee looke for at their hands, for they can neuer make it appeare, that either Antimony or Mercurie well prepared sause any such Symptomes in the bodie as these doe: or if they estecme it a thing fit and requisite to desist from the institutions of ancient Physitions, exploding the vse of such Medicines which they finde to be daungerous; we thinke it farre more rationall on the other part, (observing the main end of the foresaid intentions, and so cutting off quite the vsage of euill things,) to appoint and ordaine in their roome such as are more gentle and familiar.

Here they may finde fault (but nothing to the purpose) and say that they custome to make sicke people to vomit is very daungerus, and therefore to that intent they ought to use no Medicine at all, &c. But having sufficiently answered this objection, and proved the contrarie in my Treatise intituled Emetologia, concerning the nature and use of vomitive Medicines, I thinke it needs

needlesse to repeate the same in this place.

If notwithstanding what is said these M. M. persist in their opinior, saying that Autimonie and Mercurie, are Medicines not so free from Maligne qualitie as I pretend, but that that they in-here and cleave to the guts, and leave some screet infection in the blood or Radicall humours, the which in continuance of times comes to manifest it selfe. And these are those common nuifances which many object, thinking thereby to drawe mens, affections after their owns fantasses.

But this vaine opinion is quickely confuted by plaine and evident demonstration when they please, for most men which take either Antimonie or Mcrcuric well prepared, cvacuate or cast the same out into the vessell, whereinto they vomit even at the very first operation of the Medicine either upward, or downeward, so that it hath beene often found in the excrements, when nature did worke that way first, as sometimes it falleth

Secondly, these (being mettallicke and fixed bodies) cannot bee concocted, or brought into chyle or naturall nutriment by any meanes, whence it confequently followeth that they cannot intermixe themselves with the blood, or any other substance of the bodie, as all other vegetable and animall Medicines may easily doe, in regard of that Symbolization

bolization they have with the foresaid substances, so that the stomacke may reduce them into chylo at pleasure, which is the cause also that the poysons of cuill plants, serpents and other venemous creatures are more active, sodaine and piercing them

Arfink it selfe or Realgar minerall.

I could produce a number of other reasons to demonstrate that Chymicall Medicines of a vehement nature, as principally the two before named (against which all this controversie doth particularly arise) are more gentle then any violent vomitive Medicine which our Ancients prescribed, yeafarremore safe then any vomitorie under Hellebore or any above named: but to avoide long discourse let these suffice at this time.

Now let us come to resolue our selues whether those ordinarie Medicines which be naturally gentle and without any offensive qualitie, after chymicall preparation change their natural mildenesse, into that which is eaill, and so become vehement

and dangerous.

Concerning which point wee have in this discourse alreadie spoken some thing in defence of purgative Medicines, as those of more frequent wse then others among diseased persons, and therefore wilbe contented to determine the whole matter in the generall defence of Diaphoretickes, Diuteticks, Alexitories, &c. chymically prepared.

First, therefore it must of necessity be granted of

all opponents that enery Medicine ingenerall bereaued of its earthinesse and feculencie, and made pure cleane and well digested by fire must of consequence be lesse hurtfull, lesse dangerous, and lesse offensiue, and is also farre more apt to worke, ci:ò turo & miunde (as the Physitions wish) then any trude, earthie, impure or ill prepared Medecine may or can doe by any meanes possible; the reason is, that when such ill-prepared stuffe is once gotton into the stomacke of any diseased person, nature (alreadie strugling against the disease) becommenh thereby more wearied, over-cloyed and oppressed in concolling and seperating the purenesse from the impurenesse of such drugges then it was before, and zherefore can receiue very little or no comfort at all by such Medicines, whereas on the contrary part other medicines (made subtill, active, pure and well prepared by art) doe begin to disperce and dilate themselues gently into all parts of the bodic as soone as they are received thereinto, and heing never so little exagitated or moved by naturall heate affift nature her selfe without any alteration or disturbance at all, and like a good friend aide and promone her; whereas the other mearieth and tormenteth the body like a Tyrant. Moreover wee may consider that Chymicall Medicines being pure and neate, as aforefaid, leave no feculent residenos or corruption in the bodie at all, as others sommonly doe.

Bus

But if it commeth to passe (as it is not unlikely) that some should deny these reasons, objecting that Chymicall Medicines being subtill and pure, can more easily disturbe nature, and more the body more sodainely then other Medicines do; to whom we answere, that although among our Chymicall Medicines, there bee some of a subtill Nature, as our distilled oyles, the quintessence of wine, and other vegetables: and as there be duers liquors (we acknowledge) very [harpe and piercine; so in like manner be there some diseases, wherein such Medicines be very requisite and necessary, whereas others of a crosse, feculent and clammy substance can yeeld no ease or comfort at all; in regard whereof wee ought not to accompt them danngerous or hurtfull, but rather very beneficiall and wholesome, especially being well applyed and resed as all Medicines of what nature soener ought to bee.

But under colour of these no man ought to comprehend other Chymicall Medicines, or proclaime them to bee of such a piercing nature, for comming to purgative Medicines extracted (being of a sapple, thicke and condense forme) weeknow well that they are not nor cannot bee so subtill or piercing as oyles, nor are called subtill in regarde of their penetrative vertue, but rather because they are farre more easily converted into Liquors, then the substances from whence they

to be called irritatives.

Experience her selfe teacheth vs that the extract of Mechoacan, Rheubarbe, or Sena (being gentle Medicines) duely administred, show themsclues farre more milde, gentle and effectuall then when they are exhibited after an entire and grosse

preparation.

But what need many words? doe we not plainely fee that our Chymicall Art bringeth Colocynthis and Scammonie (acrimonious and venemous purgatines) to bee so gentle and milde in operation, that a man may as safely and freely administer them as Rheuborbe, having onely regard to the qualitie of the disease, and the humour they naturally purge? as namely that of Scammonie whereof a man may boldly give to one of a strong constitution twentie graines at a time, in sugar rosat, or any other conserve; And this will worke easily and well, without any touch of paine, perturbance or inflammation in the bowells, as otherwise it would surely do.

And this is a Maxime that not only Scammonic, but everie other purgative Medicine of such wenemous and vehemet nature as Hellebore, Tithymalls,&c. loose their acrimonie and maligne qualitie, and by meanes of this Art become gentle and effectuallin the extirpation of all such diseases at they naturally concerne or respect, without any

inconvenience or danger at all: and this is no vaine coniecture of mine owne braine, for I can produce a hundred sage and learned Physitions which can & will testifie and make this good as well

as my selfe.

And this is all which I purposed to speake at this time in defence of Chymicall Asedicines, against the suggestions of scandalous tongues, not meaning or intendeng hereby to disgrace or vilipend those ordinarie Medicines, wherewith the world is and hath beene surnished and served for so many agestogether; for both the one und the other may be found good or evill according to the diversitie of their vsage, notwithstanding I have at all times indevored my selfe to the vitermost of my power, to amplifie and illustrate the Art of Physicke for the comfort of the diseased (as every one ought) without any passion or malice in condemning things newly invented for Paradoxes and Herelies before due exami-

nation and tri-



Ad Authorem.

For want of judgement thy intent to misse, In sitting that for England which for France:
Thou paines hast tane and labour to Iwis,
For which and others thou deseruest blisse:
I wish I were thy neighbour, or that I
With such a one might spend my daies and dies

But now the world is such, we cannot find A man with whom we freely may converse, Some proud, some stately, others so vakind, That't greeues my heart their manners to reherse. Or talke of such selfe-louers in my verse, When men by nature friendly creatures borne, Doate on themselves and others soulely scorne.

But thou, Patauian-like, I heare dost ioy
To do poore schollers good, and to impart
Thy secrets best to him thou art not coy,
That's of an honest and a friendly heart,
What wight from such a one would euer parts
Witnesse thy bookes abroade and notes beside,
For which to thee some private friends are ti'd.

Ad Authorems.

For what's in Physick more to be desir'd,

Then knowledge how to vie a Medicine well.

What in that worthy art to be requir'd:

More then o'th vertue and safe vie to tell?

Wherein than others many dost excell,

For how to strengthen vomit, sweat and rest

Is taught by thee as well as by the best.

Let Carping Criticks, that in corners lutke,
Blaspheme, detract and vtter what they can
Let some of them divulge me such a worke a
And I will say he quits him like a man:
If not I wish him hold his peace till then.
For sure I am that he that sault doth find,
Will come at least a bow and halfe behind.

THO. BRINGR. M.M.

Modes

Modas extrahendi papaueris succum.



Mong those powerfull guistes to man infus'd,
What better is the knowledge of those plants,
Which for two thousand yeares were only vs'd:
As meate and sustinance to humaine Saints
For neither flesh, nor fish, the Highest grants:
Till cataclismed world so weake was growne,
That fruit and hearbs could not suffice alone.

And yet we find in basest plants that grew

('Mongst those accompted weeds of witlesse men)

Such strange effects that farre surpasse we know:

The sence and reason of the learned'st pen,

(More is the blindnesse of our nature then:)

Witnesse the Poppie whereby Greeke and Turke

By planting profit, and do wonders worke.

T. B. M. M.



OPIOLOGIA.

CHAPTER. I.

The opinion of Ancient Physitions, concerning the naturall proprietie and vertues of Opium.

PIVM (as ancient Physicions testissie and moderne confirme) is a certaine iuyce or viscous liquor which one time of the yeares destilleth or issue to the tops of white or blacke

Poppie, by meanes of a little gash or incision made in the outtermost rind of them (as witnessed in his fourth booke of Simples Chap. 60.) the which liquor after due condensation is reserved and layd vp for necessary vscs, as may not only appeare by the History aforesaid, but by that of Peter Bellon hereaster recited.

Good

Good Opium (as Diescordes and other Ancient Physicions affirme) is weightie and ponderous, bitter in tast, and is quickly dissoluted in water, it is smooth and whitish and not rugged or lumpish, and being streined it doth not like waxe melt against the sun, being kindled it causeth not a blackish stame, and being quenched or put out, it alwaies retaineth its naturall smell.

They vse many times to sophisticate or mixe Opium with Glaucium, Gum, or the iuyce of wild lettice, but that which is sophisticated with Glaucium is easily discerned, for being cut into small peeces, it becommeth yellow; in like manner, if it be mixed with the iuyce of wild Lettice it becommeth more rugged and tart, and hath little or no smell at all; but if it be counterfeited with Gum, it will be bright & shyning in colour, but weake in operation.

Opium taken crude and raw, as aforesayd, to the quantitie of an Orobus or wild Fitch, appealeth all Aches or paines, helpeth digestion, stayeth all Coughes and Destillations or Rheumes, which fall from the braine into the stomack, it is excellent against all kinde of Head-ach if the temples bee anointed and chassed with the same and oyle of roses: being dropped or instilled into the eares with

the

the oyle of bitter Almonds, Mirrhe and Saffran, it healeth and recouereth Hearing, and the sooner being applied with the yolke of an egge hard rosted in the imbers: it availeth much against instammation of the eyes, and being mixed with vinegar is very good against Saint Anthonies sire, and healeth olde vicers: with saffran and womans milke it is singular in gouts, and being mixed with Sup-

posatories, it prouoketh sleepe.

Diagoras, Ætius and Mnesidemus disproue and finde fault with the viage of Opiumin the diseases afore-named, by reason of its Aupefactive qualitie, but Diescordes (affirming the lawfull vie thereof) maintaineth the contrary, and proueth their opinion to bee idle and false; seeing that the propertie of Opium is quite of another operation; yet heeingenioully else-where confesseth, that the indiscreet and superfluous vsage thereof produceth no small detriment to the patient, making him fall into a Lethargie, whereby death commonly infues; the which he further confirmeth in his fixth Booke and seuentceth Chapter of Poysons, and their remedies, where hee reckoneth vp the Symptomes which it causeth in those bodies which have eaten too much thereof.

Nicander and Actius have written of the

great annoyances that come thereby; and Gallen also in his second and third bookes De Comp. Med. describeth Opium to bee a daungerous Medicine, saying, that it mortisieth the senses, and causeth deadly Symptomes, in regard whereof hee wisheth that no man should vse it, vnlesse his Patient bee in danger of death, through the extremitie of his paine, and, hereunto assente Plinie and divers others: notwithstanding there bee no small number of moderne Physitions quite of another minde.

The cause of those dangerous effects and Symptomes, which crude Opium by its too much vie is said to procure, is attributed to its exceeding coldnesse; for most Physitions hold, that it is not vnfitly ranged among things that are cold in the fourth degree.

A small Tract of Opium, taken out of the 13
Booke and 15 Chapter of Peter Bellon
his Historie of the singularities of some
memorable things found in Greece, Asia,
and other Countries.

Man can hardly find (saith hee) any thing more worthy of observation then Opium, which they prepare now a daies in Turkie, and especially at Achara, Carachara,

Spartade, Emetelinde, and in other Cities bordeting vpon Cappadocia, Paphlagonie and Cilicia.

They fow their fields with white Poppie, as we do with corne, and are so circumspect in the sowing thereof, that every Paysant or Husbandman shall sow no more then he can procure people to gather the same in due time, for when the Poppie is growne to be headed, they cut a small hole or make incision therein, whence issueth forth certaine milkith drops which they suffer to thicken or congeale : some one of these Peasants will gather (may chance) ten pounds, another fixe, another more, or leffe, according to the number of people hee sets aworke, for it bootes nothing to sow a great deale of ground, vnlesse he can get people enough to gather it. Wee verily beleeue that vnlesse the Turkes vsed it much themselues, it would be as vnusually vended among Merchants, as other vnknowne drugges are, but it is so common among the, that there is not a Turke but buyethmore or lesse therof, for if he be worth bue an Asper in all the world, hee will bestow halfe thereof in Opium, and carry the same at all times about as well in Peace as Warre.

A certaine Iewish Merchant, of the country of Natolia, assured vs that there passed no

C 2

Jeares wherein there were not fiftie Camels laden out of Paphlagonia, Cappadocia, Galatia & Cilicia, to transport the same into Persia, India and Europe, and other parts of the Great Turkes Dominion in Africa and else where; the which we should have hardly believed if hee had not related to vs by pecce-meale (as it were) what quantitie might be made and brought from each severall Village about the Confines of Carachora, and the Villages of Paphlagonia, Cappadocia, Armenia the lesse, and Gallogrecia, hee told vs moreover that the Persians vsed it more aboundantly then the Turkes.

Wee defired one day to make an experiment, and try how much Opium a man could take at a time without any offence or hurt, and wee found that a certaine Ianifarie of our acquaintance did vie to cate thereof every daie, who tooke at one time in our presence the weight of halfe a Dragme, and meeting with him the next daie at a Mercers shop, wee caused him to weigh vs out a whole dragme, which wee gave him, and hee swallowed it vp all at once without any daunger or hurt at all, saving that for a while hee seemed like a drunken man.

To cate Opium in Turkic is no new thing,

thing, and the reason why it is vsed so amongst them, is because they persuade themselves that it maketh them more adventerous and lesse searcfull of daungers in warre, so that when the Turke assembleth or mustereth any great Armie together, they make such hauocke of their Opium, that they almost dissurnish the whole Countrie. They take it in as great souffe amongst them, and accompt it as great an iniurie when one vpbraides another with eating of Opium, as another Countriman would do if one should call him a drunkard.

A Christian-Armenian, with whom wee lodged long time, vsed many times to eate Opium in our sight, and prouing the same our selues, we found no other accident, saving that it heated our stomackes, troubled something the braine, and caused vs to sweat in our sleepe. Wee thinke that if men were disposed they might as easily plant and sow Poppie in France, Germanie, Italie, and some other places of Europe, as well as in Asia, if they would but take the paines to dresse and gather it as they should doe, for surely the Climate of Natolia is as colde as that of France. It is made in the same manner as Authors doe describe, but I am affraide if wee have anie brought ouer

ouer hither it is sophisticated & mingled, for the Merchants do questionles multiply it before they vent it abroad into the Countries, and therefore because we know some marks and tokens how to choose the best, it is not amisse to set downe the same.

The best Opium is that which is very bitter, and so hot in tast that it wil almost scorch and instance the mouth, it is in colour something yellowish or like to a Lyons skin, and being formed into a lumpe, it seemes speckled as a masse of divers colours, for in gathering the sayd Opium, the seeds are found clustered upon the Poppie-heads, which being amassed cleave together like a cake, its smell is sulsome and strong, and although it be accompted but of a cold temprature, yet it many times scaldeth the mouth.

Opium is formed into cakes in the Country of Natolia, which exceed not about four ounces or halfe a pound at the most, but the Merchants to make the greater profit by their sophistication double the aforesaid quantitie, for the subtili Venetians make the Cakes in their shops to weigh a pound at least, and this is the report of Bellon concerning Opium.

Now confidering that in his time a man could hardly get any in Christendome that

were

were good, how should we finde any now adaies either in the Apothecaties or Druggests shops which hath these tokens, or is so effectuall or pretious in its operation, letting passe the seeds or graines as the onely difference in gathering.

It is called ordinarily Opium Thebaicum, in respect of the Province of Thebes where the

best is made.

CHAP. II.

Of the assurance we have that Opium may bee vsed, and taken crude or mixed in Medicines without any prejudice or indangering the Patients life at all.



MAN shall find some Physitions now a daies who adhering too much a conscience to the opinion of olde Leeches (capitall enemies to Opium its

vie) not onely beleeve it as an article of their Creed, that what soever any Author hath said in detraction and disgrace of Opium is an vindoubted truth: To whom I answere and say, that wee ought not to submit our selves to their judgement altogether, nor to be a

CA

beleeue the opinion or saying of any Physition, whether antient or moderne otherwise then daily observation of the vse of things & our Grandame experience confirme in our vnderstanding for truth : for seeing that the ancient Physitions, as well Grecians as Arabians, how great or learned soeuer they were esteemed, yet being all but imperfect men and subject to errour, had their owne proper passions, and were full of contention and iealousie one against another, as wee are now adaies; whence it followes that wee ought not to receiue all their workes for gospell, without condition as aforesayd: for as for example Galen, Plinie, and others, put the world in feare and suspition of Opium, and contrariwise Oribasius, Diescorides and others commend it, and assure and affirme it to bee profitable and necessarie for the cure of many diseases: who then in this case can giue vs better knowledge and satisfaction of truth of these things then Experience her felse? Now shee tells vs that a man may sasely vie Opium inwardly in mens bodies, Oribasius therefore and Diescorides, haue spoken cruly, whereas the errour and abuse of others is manifest : which howsoeuer it falls out, it hinders vs nothing at all to fearch into

into these things, seeing that neither cause nor reason can prejudice or hinder the au-

thoritie of daily experience.

That the vse of Opium deserueth to be applauded of all Physitions, wee have two principall and certaine assurances; whereof the former is not onely the certification of Peter Bellon aforesaid, but of a hundred honorable personages, who have beene in Asia, and affirme that the Turkes cate thereof in great quantitie almost enery day ordinarily without any mischace or hurt to their bodies at al, which may in part be a sufficient demonstration that Opium is not a thing so venemous and daungerous to the life of man, as some

giue out and proclaime it to be.

But heere some (to small purpose) may tell mee that the Turkes may casily digest Opium, how colde soeuer in regarde of the hot Clime they live in, whereas the Christians dwelling under a colder in Europe can doe no such matter : to whom I aunswere, that if it were graunted that Opium were of such qualitie as aforesayd: yet whether a man could digest it or not, cannot bee Physicallic artributed to the temprature of the Climate, but rather to the flrong coulditution, or naturall vigour of the people; for the

the Turkes being from their very cradle more grossely brought vp and sed then the Christians are ingenerall, become not only more able bodied and stronger thereby, but also more apt and able to eate and digest divers things which the tender and nice Christians cannot judure: and that the truth is so, Let vs but consider a little the difference of naturall toughnes and strength betweene a Christian Paysant or Carle here amongst vs, and a Gentleman or Citizen; do not we see(I pray you) that the Paysant can more easily indure a purgation made of White Hellebore, Tithymalls, Euphorbium or Colocynthis (which are accompted violent and venemous Medicines) then these tender sparkes aforesayd can brooke Rheubarbe, Mechoacan, Sena, Aloes or the Damaske rose.

But why the Turkes devoure Opium on this fashion, ought rather to be imputed vnto an ordinarie custome, and common vsage among them, then to any other cause whatsoever; even as the Indians are accustomed to take Tobacco, which is a plant not onely Narcoticke and stupefactive, but of a violent and extreame vomitive quality also. Notwithstanding we see that Christians, all Europe over, by little and little have brought themselves into such a custome and habit

there-

thereunto, that they feele no alteration or presidice at all (as they thinke) by the vse thereof.

I make no question but a man might finde a number of people among Christians that if they cannot alreadie, could easily accu-Rome themselues to eate Opium as familiarly, as they take Tobacco: although they could not vse it in such quantitie, nor so often in regard it is a pure effence and extract, which Nature hath seperated from its plant: For efsentiall things are alwaies farre more effectuall then grosse bee, for confirmation whereof we neede not doubt, that if a man should separate the rosinous and sulphurous substance of Tobaccao, and bring it into such a consistence as Opium is, and afterwards giueit vnto such as vsually take Tobacco, they could not possibly indure the tenth part fo much of this as of the leaues, as hath beene alreadie practised and tried.

There be some Empericks (Iknow) which give crude Opium to their Patiens in as great or greater quantitie at a time then Discorides hath limitted, and that without any great daunger or hazard of life at all, onely correcting it a little with the powder of Caraway-seed; and in case of necessitie I my selfe would not sticke, or make any scruple to

or three graines thereof at a time my selfe; for although I neuer dideate thereof hither-to indeed, yet haue I often tasted the same, and also received great quantitie of the sulphurous vapours, both into my stomacke and head in time of the preparation thereof without any perceivance, or the least touch of any offence in the world: neuer-thelesse it is not my counsell that any Physition should vse it crude in this maner, seeing we have Art and meanes to prepare it otherwise.

The second assurance that wee have concerning the vse of Opium, is in that wee finde and see that the most expert and wisest Physitions of olde, found it good, and therefore prescribed this Medicine as a principall ingredient, and as one of the most important bases in their chiefest compositions, Alexiteries, Diaphoretickes, Anodynes, Cordialls, which naturally relist the most grieuous and violent diseases that can any waies happen to humaine bodies, for which cause they vsually call them Opiate Confections, as that of their Treacle of Andromachus, their Muhridate of Dinocrates, their Triphera magna, Aurea, Alexandrina, Philomuim romanum, Requies Nicholas, and others, which they have vsed as prinprincipall Medicines for these many hundred yeares and yet doe; for they are indeed the most pretious and necessarie compositions

their ordinarie Apothecaries haue.

The causes which moved Ancient Physitions to put Opium vnto the foresayd confections are not few, seeing that its properties are to asswage all inward paines, strengthe the passages & conduits which are open, loose, & disbanded: precipitate, disperse and confume these venemous vapours which are railed from one part to another: incrassat and thicken al fubrill corrofine & humors, by correcting their malignitie and acrimonie: stop and stay all stuxes as well Dysenterick as Menstruail: appeale and extinguish all extremities in burning Feuers: prouoke naturall rest and sleepe to Distressed and Lunaticke persons: and finally, like a Balme defend the partes from corruption, which operations and effects are required in all compositions, which are generally ordayned to resist the violence of dinerse diseases, in appealing and repelling whereof forne of these properties before named are ordinarily defired, as Quercetanus in his Pharmacopea (intreating of the vetues of Opium) affirmeth in these wordes, saying, Pauci enun sunt morbi qui non simul COM-

complacentur vel ardoribus, vel inflammationibus, vel inquietudinibus, commotionibus, languorihus, oppressionibus, vigilijs, desluxionibus vel varij
generis doloribus, capitis, pectoris, ventriculi, ventris vel cuiuscuná, alterius Patris: ad quorum
omnium Symptomatum fereciam compescendam.
Opium specificam & peculiarem quandam habet
proprietatem, qua vel vnum exhis Symptomatis
seorsim, vel plura cum malo coniuncta, Simul
cum admirabili astantium, & ipsorum agrorum
admiratione euincit ac subigit, vnde sapeumero
in eiusmodi casibus tam mirandos sanationum effectus prodere videnius Theriacam, Mithridatium, Antidotos Esdra & similes, qua Opium exciiunt, &c.

For there beevery few diseases which are not either accompained with heates, inslammations inquietude, preturbation, languishing, oppressions, watching, fluxes &c. for mitigating and repressing of which Symptomes Opium hath a specificall and a certaine peculiar proprietie &c.

And this may serve to assure vs that wee may boldly vse Opium inwardly without any prejudice to life, year ather for its better confernation being administred with judgement and discretion as all other Medicines what-

socuer ought to be.

CHAP. III.

Concerning the good and euill affects which Opium may produce in mens bodies.



Hat Opium (as aforefaid) being wisely administred to the discassed, produceth in them many good effects, and contrariwise abused exciteth di-

uers dangerous and mortallaccidents, is in no fort doubted among discreet Physitions; but touching the cause why Opium doth worke these effects in mens bodies is disputable: for most Physitions impute it to that extremitie of the fourth degree of coldnesse wherewith it is endowed, and for proofe and confirmation hereof they produce an argument drawne from the effects of its operation in this manner: Opiam (fay they) pronoketh a vigilant or watchfull man to fleepe, and incraffeth thin and subtill humours:vigilancie, then proceeding (for the most part) from a hot and drie cause with matter or without, and the diffolutionalso of the humours from the like diftemprature, Opium therefore contrarying and impugning the causes of these effects must needes bee of the qualitie

qualitie aforefayd, and for the further confirmation hereof they alledge Galen, Plinie, and others, who in like manner witnesse, that when Opium is vndiscreetly vsed, it causeth Lethargicke sleepe, privation of sense, stupefaction of members, suffocation of naturall heate, and death in the end.

But although I cannot like a cunning Logician, frame sophisticall Syllogismes, or giue such luster to my reasons, as many would doe, which take greater pleasure in the Flos of words, then in the veritie and realitie of things, notwithstanding if it be lawfull for meere Naturalists in plaine and simple termes to discourse of such things, whereof they haue sufficient experience, I may (vnder correction of those which know these things better then my selse) deliuer my opinion alfo.

Opium then is not such a colde thing as they would have it, as I can prove both by reason and experience; by reason in regard it is not onely bitter, but inflaming and excoriative, which are evident tokens of its hot qualitie and complexion; for so the wisest Physitions in the world judge of bitter things: and the light of Nature it selfe teacheth vs that none of the source elements doe corrode, inflame, or heate, but that of fire? Againc

Againe, its nature is knowne by its colour, for being of a darkish yellow, when it is dryed and powdered, it must needs be hot, as Aloes and Myrrhe, and all things of like colour be, especially if they have any bitter tast

adjoyned.

By experience wee may well approve that Opium is not cold in two respects, first that when the Turkes eate thereof, they become cheerefull, couragious and fierce in warre, secondly that when one giveth two or three graines thereof to any sick person, and cover him warme in his bed, it will make him sweate more then any other Diaphoreticke, which operations can by no meanes proceed

from any cold qualitie it hath.

But if a man should object amongst both these reasons, laying, first the Turkes being of a hot constitution, and living in a hot clime, become more faint-hearted and cowardlike then those of colder temperatures, and therefore Opium tempering that heate maketh him more strolicke and cheerefull accidentally; secondly, that if a man give but a cup-full of cold water onely to a sicke man to drinke, it will questionlesse make him sweate &c. Whereunto I answere, that if the Turkes doe acquire sorce and courage by tempering their heate with cold things, they might very

well spare that great labour and toyle they take in sowing their Poppie, and gathering their Opium, seeing that spring and riverwater might stand them in as great stead, being a cold liquor, and dispiercing it selfe into all parts of the body, as soone as it is drunke, but it is so farre short of Opium in quickening the spirits, and raysing the courage, that it worketh quite contrary effects.

And whereas they affirme that a cup of water (which is apparantly cold) will cause any sicke person to sweate, I answere, that if it cause one that is in a Feuer, or pestred with some other hot disease to sweate, as many times it doth, it proceeds not from any Diaphoreticall or sweating qualitic, inherent in it, but commeth to passe rather, per antiperi-Stasim, and accidentally, for like as water cast vpon a hot Anuile or burning stone, immediately rayseth vp vapours and sumes, cuen so doth water given to such a bodie, which after condensation, nature either expelleth by vrine or sweate, nor hath it this operation in all diseases or tempratures, whence it is manifest that water naturally cannot procure sweate but by accident onely, as is faid.

Now let vs returne to their arguments, which

which goe about to proue that Opium is cold in respect it prouoketh sleepe, thickneth the humours, and taken too liberally causeth daungerous Symptomes and doubtfull euents, which reasons (I affirme) are of no force in this behalfe, for first as Opium prouoketh sleepe to all those which are afflicted with hot diseases, so doth it also prouoke the same in all other causes without exception, yea although they bee of different qualities, as witnesseth Auicen and others, who have diligently noted the same: and as for the humours, Opium doth not onely incraffate and thicken those which are of a hot qualiz rie, but those also which are coldest of all, as that white and christalline humour which floweth and distilleth from the braine vnto the other parts, whence it appeareth that a man cannot produce such a necessarie consequence of the operation of Opium, as those men goe about to doe, for if we were tyed of necessitie to adhere and stand to the sence of the former arguments, it would consequently follow that all coldethings would procure sleepe to the diseased, where no other thing could effect the same: Item, that they onely appealed all inward griefes, incrassed euery humour, hot, cold or how subtill focuer, and in briefe had the very same

vertues that Opium before is described to haue, whereas on the contrarie part no hot things could effect the same; but experience proueth it sarre otherwise, for if Quick-siluer, the Magisterie of Lead(compared to Saturne) Salt-peter, or Allome (salts of a cold temprature) or the water de Sper: Ran, which is thought to coagulate or congeale the bloud by its extreame frigiditie, if none of these (I fay) perform those effects which Opium doth, nor Ice nor Snow themselues rationally administred in neuer so large a dose, can procure sleepe, or cease paines, but rather for the most part cause more vehement sits. Yet I will not deny that cold things may fometimes, and vpon some occasions procure rest, though not alwaies when neede is, nor so surely at any time as Opium well prepared.

And as for hot things, they are for the most part so farre from causing disquietnesse to mens bodies, or subtilizing grosse humours that quite contrary a man may finde many that will prouoke sleepe, and thicken subtill and virulent humours, rather and sooner then other of a colder qualitie, as we may plainely perceive by Mirrhe, Aloes, Storax, Olibanum, Worme wood, Betonie, Safran and such other, yea & Sulphur it self (the very sire

ofinature) doth not onely prouoke sleepe in some reasonable measure, but doth also in such wise coagulate and condense the subtill and hot humours, that it availeth much the Pthysicall in staying their defluxions, and it is a thing most manifest amongst Spagirists that Sulphur can coagulate water, wine or Aqua-vitæ in such fort that a man may be ate them to powder in a morter, and after reduce them to that naturall forme they were in before.

I am not ignorant, that a man may tell mee that things of a cold or hot nature, doe worke diuersely in bodies according to the diuersitie of the subiest they light vpon, as the fire which hardneth clay, and foftneth waxe, and so of cold things, in like manner that Opium being extreamely cold, by that extremitie worketh in bodies, where other things of an inferiour degree cannot in any wise; but neither of the two reasons reach to the deapth of our dispute, for first Opium (the subject of our discourse) worketh not in mens bodies in this or that manner by election, according to the diuersitie of their tempratures and complexions, but doth indifferently prouoke sleepe, and causeth all paines to cease of what nature or qualitie soeuer as aforesaid.

D 3 Secondly

Secondly, putting the case that Opium were the coldest thing in the world, yet that small Dose, which we commonly vse to give at a time, cannot exceed the great frigiditie of those things afore-named in their larger

Doses.

Were it not a great absurditie, to beleeue that one graine or two of Opium were colder then a dragine of Allome, prepared or crude, or one scruple of the Magisterie of Lead, or an ounce of the water of the Sperme of frogges, or two ounces of the water of Nymphea, or as an ounce or two of Quicksiluer, which some haue vsed to giue against the wormes and other maladies, all which passe through the bodie as cold as any ice, andmanifestly coole the mouth, and other conduits where they passe, which one small Dose of Opinm cannot doe, but rather contrarily heateth both mouth and stomacke; whence you may gather that these reasons, and the like, are meere palliative and stuperficiall arguments, and fine gloses to entertaine long chat, rather then to proue any coldnesse in Opium.

Now touching the Symptomes which Opium causeth being inordinately taken, Experience her selfe teacheth vs, that Aqua-vita (which is of a hot and subtill essence) being

effects, for many being drunke with Aquavita have dyed, seased as it were with Stupiditie, prination, of sense, Trembling, Lethargie; and indeed ended their lives in such manner, as if they had swallowed to much Opium, and became benummed and stiffe, as if they had di-

ed in the very yee and snow.

Wine it selfe also causeth divers Symptomes of Opium in them which abuse it, as wee may plainely see by the lamentable examples vsed in divers parts of the Papacie, where they commonly make those people drunke which are condemned to any violent death, of whom some goe singing, and some rayling thereunto, and others as dull and senselesse as bruit beasts, none of them having any vnderstanding or memorie of their iminent slaughter, and which is worse, have no true feeling of their sinnes, nor solide judgement or discretion to recommend themselves to the mercie of their Creator.

Wine (as all Authors affirme, and Experience her selfe declareth) being abused, doth cause in processe of time Phrensie, Madnesse, Rage, Furie, Stupiditie, Lethargie, Palsie and other dangerous diseases, euen as Opium doth, and is notwithstanding an hot liquor, as all

D 4 the

clude that Opium maketh not the Turkes sierce and couragious in warre, nor maketh the diseased to sleepe, nor appealeth all inward griefes of the bodie, because of its cold qualitie, or by reason of its heare (although it manifestly appeare to be hor) but in regard of his operations, which doubtlesse proceedeth from a specifical and hidden proprietie wherewith it is indowed, even as wee see in deiectorie Physicke, which purgeth neither by reason of any heate or coldnesse therein, but rather by a certaine specifical qualitie as is sayd.

Now as purgatine Medicines rightly vsed, doe not onely enacuate Natures excements, and bring the bodie to an excellent temprature, but being abused doe mightily offend and bring dissolution to the same; even so Opium well administred, endoweth the bodie with singular benefits, but abused and vntemperatly given, worketh the contrary, whence it solloweth that in the vsage of either of them, it behough the Physician to be ruled by reason and experience, walking in a good conscience, and practising his Art in the best manner to Gods glorie and his

Patients comfort.

CHAP. IIII.

Wherein is shewed the Counsell and aduise of Theophrastus Paracelsus, concerning Medicines Narcoticall or Anodynes, and in particular that of Opium.



Auing generally declared the opinion of ancient Physicians concerning the nature, vertue and vse of Opium, and the controversies which are among moderne Physitions

touching the qualitie thereof, it is not amisse to see now what Theophrastus Paracelsus (that great searcher and diverinto nature) saith in this behalfe.

This Author hath generally the vsage of Anodyne Medicines in such high esteeme and reverence, that hee recommendeth them ynto his disciples as a principall pillor of the whole bodie of Physicke, assuring them that they are the most important remedies of all othersto cure the bodies of men of the most gricuous diseases they are subject vnto: In the seventeenth booke of his Archidoxes and Chap. De Specifice anodyno, hee saith thus, that we should speake with great reverence, and regard

regard of the Anodyne or Specificall appeasor; we are moued by divers reasons, for in particular, wee haue met with some diseases, for cure whereof (finding no helpe or reliefe among our best secrets) the Specificall Anodyne not without great admiration accomplished our defire, and this fell not out casually or without reason, seeing it is the nature of Anodynes to extinguish dileases, euen as water quencheth fire. And in his first booke of Naturall things and Chapter De Sulphure Embrionato, speaking generally in praise of those things which naturally prouokesseepe, and are Anodynes, hee saith what greater sccret would a Physition desire to possesse, then that which can cause all paines to cease, and extinguish all internall heate? hauing this, doth not his skill passe that of Appollo, Machaon or Podalyrius? Let a man consider a little this sentence, and marke with good judgement the subject thereof, and hee shall finde no iesting matter of it, In his Commentaric vpon the second Aphorisme of the second Section of Hippocrates, vbi sommus delirium, &c. Paracelsus speaking in the end of that exposition, concerning the benefit of wholesome sleepe, saith that sleepe is such a great secret in Physicke, that being spoken without disgrace of other things, he

hee would gladly have any man tell him where he can in all the world find such a remedie, which can manifest such sodaine and active ease and reliefe, to the health of mans bodie as it doth.

Hence you may perceive why these Anodynes (of what kind soewer) ought to bee so well regarded, esteemed and made accompt of among all Physitions, for seeing sleepe is a Medicine farre surpassing all genmes, & Iewels in the world, hee that knowes how to apply this Somniferous secret, conveniently and in good season, ought to be held in great accompt and estimation among diseased

people.

That Theophrastus doth also commend the viage of Opium among his Anodynes, and Somniferous Medicines, it may easily appeare in the forenamed Chapter De Specisico Anod, wherein hee proposeth Opium onely without addition of other Somniserous things, to make that composition which he calleth his Anodynum Specisicum, and attributeth vnto it this excellent proprietie, saying, that it causeth not the whole body of man to sleepe, but the diseases onely. In his booke De Morbis amentium, whete he writeth of those that be Mad, Lunaticke, Phrantick, Epilepticke, &c. hee putteth the quintessence of Opium

Opium in the ranke before Aurum Potabile, Argentum Potabile, the Magisterie of Pearles, and all other pretious Medicines which bee ordained for these maladies.

Here some enuious Criticke (beside the purpose) will hit mee a blow on the blind side, saying how comes it to passe that these braue Spagiriques heale not all the patients that fall into their hands, seeing they brag of such fingular fecrets as these? of whom I demaund the cause also, why they cure not all theirs, having such grave institutions, solid grounds and principall Medicines vsed ordinarily amongst them? This is not to proue that although Chymicall Medicines worke more citò, tuto & incunde, by reason of their better preparation, and exaltation in power then other ordinary Medicines, that therefore they can surely ouercome and cure all hereditarie, inbred and incurable difeases, or such others which God for the exercise of his instice, hath inslicted and confirmed upon the bodies of men in such fort, that no Medicine nor skill in the world can cure. For.

Ni Deus affiserit, vires ég, in fuderit herbis,

Quid, rogo dyctamnus quid panacaa invent? If God helpe not, and into herbes infuse,

A working power, in vain we Medicins vie.

In his booke De morbis resolutis, In his first booke of Minerall diseases, and in divers other passages of his workes, hee maketh mention of Opium, with such great honour and respect as any auncient Physicion in commendation thereof euer did : afterwards concerning it's vsage hee meaneth not that any man should administer it simple and crude, or grossy tempered and mixed with other Medicines before the due preparation, for in his first Chapter De Sulphure Embryonato, and his first booke de Reb. nat. hee affirmeth that Opium, Mandrage, and Henbane, containe in them some maligne substance, in regard whereof no man ought to vie them (if he worke warily)before he haue reduced them into a quinteffentiall forme, which indeed hath bin the principall occasion, that the Spagiricke Physitions (putting their hands to the plough) have found the meanes to prepare Opium into fuch a pretious and profitable Medicine that in all Spagiricall and ordinary practife whatfocuer, none other can bee comparable either for speedy or wonderfull operation, for which onely Medicine all Christian Physicions and people, which know it, are eternally bound to give the founfountaine of all goodnesse, thankes, for his gratious guists inspired into men.

CHAP. V.

Of the invention or meanes how to prepare Opium well, and wherein it generally consisteth.

Auing hitherto diuersly discoursed of Opium, in demon-strating its pretious and necefarie vse in Physicke, we will Now goe about to shew that effectuall manner of preparation, which the Spagirists vse, to the end wee may more freely and safely administer the same, then the ancient Physitions did, who commonly put the fame into their Medicines vnprepared, which Quercetanus (in his Pharm. Dog. Rest. pag. 186.) treating of the composition of Treakle, mightily complayment of in these words saying, De plorandus enim error est nobilis huius, alexipharmaci compositioni in tam magna, trium scilicet unciarum dosi ed miscere tantum venemi quale Opium crudum & minus praparatum esse constat. The errour of them is greatly to be lamented,&c. Which Quercetanus auoucheth not to blame the invention of auncient Physici-

Physitions, nor the vertue of Treakle, which hath beene, and yet is daily vsed with great successe, but rather to infinuate and shew how much more warily & safely they should haue delt in the vsage of Opium, then they haue done heretofore, if they had as truely knowne the Art Spagiricke, as wee doe now adaies; how bee it wee ought notwithstanding to take these things in good part which they have reueiled vnto vs according to their experience, although the invention of the true preparation of Opium, ought by all meanes to be ascribed to Theophrastus Paracelsus, as principall and chiefe of the naturall Philosophers and Spagirifts, who have generally written of the Chymicall preparation of all things in amanner, which are vsed in Phyficke: where others on the contrary(intreating of the Philosophers-stone) haue bufied themselues to befor and foole the world, and by that meanes have rather feduced mens understandings, then produced any good fruits or workes of worth.

Now the best preparation of Opium, confisherh in three principall practices; the first in depriving, or taking from it its Oleaginous, or sulphurous substance, wherein principally consistent the evill, Narcoticall and stupefactive qualitie; the second in correct.

ning and mitigating its causticke and aduring acrimonie, wherein it is almost parallelled vnto *Tithymalls*, *Spurges* and other lactiferous corrosiues; and the third in accompanying or mixing there with some such good additaments, and surtherers, as shalbe described hereaster.

CHAP. VI.

Conteyning three manners, or waies to deprine Opium from its narroticall, stupefactine and nuisible Sulphur, which must be done before its essentiall extract can be drawne.

T is formerly said that Opium is deprined and freed from its malignitie three manner of waies, the first (as Paracelsus in his second booke De rbis amentium saith) is by taking Opium,

morbis amentium saith) is by taking Opium, and mixing therewith certaine Atomaticall things, and reducing them into a Masse with the rob or juice of Quinces, and afterwards putting them, into a Quince, whose coare is first taken out; and lastly, having covered or infoulded the same in past, bake it in an outh like bread, and being taken out reduce or beate it into powder, and insuse it

in some convenient liquor, whereby the essense or tincture thereof may be extracted, to which purpose he taketh the spirit of Vitrioll (composed against the Epilepsie) as a specificall furtherer in this case. 2000451

The second meanes, is to take Opium, and to cut it into small slices, and to put it into a cleane Frying-pan, or vpon a Lamine or broad plate of yron, and with a gentle fire euaporate away its Sulphur, which will exhale or fume away like a groffe and flinking smoake, from which smell it is not amisse to abstaine as much as may bee: some in the interim sprinkle it with a little rose Vinegar, and stirre it together with a Spatula or slice as it melteth like Aloes, and after spread it abroad vpon the fayd Lamine of yron, and folet it euapour away as long as any fume will arise, and vntill it become so drie that it may be powdred, alwaies bewaring that it burne not.

This manner of preparation is approued for good of Quercetane, and many other moderne Physitions, and I myselfe also alwaies observe the same methode when I have occasion to make any Landanum for mine owne vse.

The third way is to dissolve the crude Opium in some convenient liquor (as is sayd)

and letting it digest and boyle easily, still scumming away the froath, and vnetuous Cremor swimming alost, which indeed is its sulphurous malignitie, and reserve the rest for vse.

This manner of preparation is highly commended of Crollins in his Basilica Chymica, in the Chapter intreating of Landamum.

Of these three maners of preparing Opium before it be brought to an extract, let euery Physition make his owne choice.

CHAP. VII.

How the tincture, quintessence or (as some call it the substance of Opium) is to be extracted, wherein his manifold vertues consist, and how to deprive or take away his maligne acrimony.



HE tincture of Opium (purified from its sulphurous malignitie as before) is ordinatily extracted with Aquavita rectified, or else with

Vineger, inice of Citrons, Oranges, Quinces or other egar and tart liquors, but of all these I make continuall choice of Vinegar, for egar things

things generally haue a naturall proprietie to correct all venemous things, and to qualifie and mitigate all those which have any great Acrimonie, or any Causticke or aduring facultie, which a man cannot find that Aquavite can by any meanes doe, and this is the reason that the most sage and auncient Phyfitions have ordained that Scammonie should be corrected with the juice of Quinces, which is an egar liquor : Euphorbium, the Hellebores, Esula, and other corrosiue and venemous Medicines, are commonly corrected with Vinegar, being therewith sprinkled or totally drenched: Antimonie (which is both of a vomitiue and purgatiue facultie as modern Artists know) being extracted in distilled Vinegar, insteed of any alterative or nauseall qualitie, becommeth onely a Bezoardicke Medicine naturally prouoking sweate: Arsenicke (that great poyson) and Mes curie sub-limate (that violent corrossue) may bee so corrected by digestion with I'megar, that a man may fafely vse them in Chirurgery.

Vinegar and other sower and tart things are of such high esteeme among Physitions, that (in a maner) no man doth administer either Bezoar-stone, Vnicornes-borne, Terralemaia, Treakle, or any other preservative to any sicke person, vnlesse they be mixed with

E 3

Oxinsela

Oximel-simplex, Syrupe of Quinces, iuice of Citrons, Pomgranates, Berberies, Sorrell or some other tart liquor; the which thing they doe not without great reason, considering that egar things ingenerall comfort the stomack, resist poysons, qualific inward heates, and defend the parts from corruption; the which thing indeed Vinegar doth about all other vegetable things whatfocuer, as may plainly appeare by its safe conservation of all things from any corruption that are put therein, which neither the juice of Citrons, Oranges, Pomgranates, nor any other thing can doe, vnlesse a man couer them with oyle and keepe them close from the ayre; and for my part I have made sufficient experiment that the essence of Opium extracted with Vinegar is of greater efficacie, and more confortative then that which is drawne with Aqua-vite, which liquor notwithstanding I mesprise not in regard it is a subtill and very excellent effence feruing many Medicinall operations, yet in this particular I doein no wise approue or allow thereof, formany reasons which enery discreet Phyfition can manifestly yeeld.

The meanes then to extract the Tincture of Opium (after it is prepared and powdered as aforelayd) is to put the same into a con-

uenienz

uenient glasse bodie hauing a strait or narrow mouth, and that for every ounce of Opium you poure thereunto eight ounces of liquor at the least, be it Aqua-vitæ, Vinegar or what other things soeuer the Physition pleaseth, and being well and close luted or stopped, let it be put in B. M. or set in the Sunne, or by a furnace, or neere the fire-side where it may remaine warme in digestion for the space of thirtie or forrie daies together, for by that meanes the Opium will begin to alter & change its acrimonious churlishnessealtogether; for this maner of digestion doth much resemble the Suns operation, in concocting & ripening tart and crude things, & changing the into a sweet, pleasant & delectable tast, as nature hath manifested by the example of Figs, which at first baue such a corrafiue and causticke kind of Milkinesse in them, which (as soone as it but toucheth any part of the body) rayseth pustules and blifters thereupon; which milkinesse notwithstanding is afterward connerted by the Sunnes-heateinto a delicate and sweet inice.

Having thus accomplished the digestion of the Opium, his subtil part is easily separated from the groffe by inclination or filtring; And his effence is afterwards eafily

E 3

brought

brought into a required and due consistence by evaporation in B.M. and so may be well reserved for vse, as shalbe declared hereaster.

CHAP. VIII.

Concerning the dinersitie of those opiating compositions, which the Spagirists call Laudanums.



HE Spagirists (imitating Paracelsus, who in divers passages of his workes, term-cth Anodyne and mitigating Medicines Landanums) have ever since retained that name

of Opium so composed: which word signifyeth nothing else but a Medicine endowed with noble and singular vertues, and therefore deserueth wonderfull commendations, which moved Crollius to blazen it in this maner: Laudabile medicamentum, quod plane suo nomine respondet si Laudanum dieas.

But the preparation thereof is diverfly handled, for every Spagnist (for the most part) differreth from another, in one thing or other: For direction wherein I have principally made mention of foure principall-ones, according whereunto a man

for

for his vse may comprehend all other what-soeuer.

The first Laudanum or specificall Anodyne is that of Theophrastus Paracelsus, which he thus describeth in the seuenth booke of his Archidoxes.

Re opiy Theb. Zj. succi pom. aurant. Suc. Citon. ana. Zvj. Cinamo. garyoph. ana. Zs. Contus. perquam opt. simul omnia mixtag; ponantur in vitrum cum suo coopertorio caco: digerantur in o, vel simo per mensem, postmodu exprim. E imponant. iterum cum seq.

Re mosch. Dis Amb.gr. Disij. croci & succi corallmagist.perlar.ana. Dj. S. Comisce, postquam digestionem eorum vno mense fact. Adde quintess. auri Dj. S. qua permixt. cateris, Anodinum specificum erit ad auferendum quoscang, dolores internos & externos, vt nullum torqueatur vel arri-

piatur membrum latius.

Here you may behold Paracelsus his Specificall Anodyne, wherein hee ordeineth onely Opum as its principall base, which is the more remarkeable in regard hee doth reckon and esteeme it as a powerfull Medicine to assume and cease all griefes by its Specificall forme, which ought to consirme vs no little in our opinion concerning his qualities aforesayd.

The

The second Laudanum is that which Quercetanus appointeth in his Pharmacopæa, pag.203.

Ressent. Opy, a suo dissoluente per B.vaporosum vt supra separata, Zij. essent. croci, cum aq limo, extract. Zj. He dua essentia confundantur invicem in parvo quodam vasculo argenteo: his adde Gemmarum, Magist. Hyacinthorum, & Corallo.ana. zj. S. ter. sig: llat. vera zj. pul. Bezoard.

veri, Vnicor. Ambr.or.ana. Dij.

Hi pulveres sufficient ad bonam consistentiam Laudano inducendam: miscendo & agitando omnia continuò ad ignem lentum, donec ex materia frigefacta pilulæ formari possunt : sufficit exhibere de hoc Laudano magnitudine piperis gr. & insignes ac suspiciendos percipies hums Anodyni effectus, quod te spe tua numquam frustrabit: nam confert citra molestiam & cercbi vllam perturbationem adversus omnis generis dolores a quacung, causa subortos: contra omnes Hamorrhogias siue fluxus sanguinis in quacung, corporis parte fuerint: contra omnes defuxiones & suores ventris, dysentericos, Hepaticos, lientericos & fimiles: & ad adducendam gratum tranquillinatem in febribus ardentissimis, in quibus ipsis rationis sensus leditur, & in phrenesim ager plerum q, delabitur. After this he describeth an other, wherewhereunto hee adioyneth Henbane, and almost an hundred Bezoardick and cordiall things: which whosoeuer is curious, and desireth to know may finde them written in his sayd booke, for I am vn willing to set then downe in this place, in regard they require a long and tedious kinde of preparation, and this may serue insteed of all.

The third Laudanum is that of Oswaldus Crollius, according to his description in his Basilica Chymica.

Before Crollius describeth his Laudanum, he commendeth the vsage of all Anodynes generally in this manner. Multi sunt morbi, qui absá, Anodynis sanari non possuns: Ergo in omnium morborum curationibus, vbi dolorum comites vigilia, viriumá, resolutiones adfinerint, Anodyna intrinseca appropriata possunt administrari, vt ablatis symptomatum ipsis radicibus pernitiosorum cruciatibus, amica quies natura reddatur. Ascermards setting downe the composition of his Laudanum (which hee calleth Laudanum paracelsi) ne describeth it thus.

R Opij Theb. ziij. suc. Hyoscyam.deb.tempore collect. & in O. prius inspissat. z j. S. Spec. Diamb.& Diamosch. sideliter dispensatorum ana zij.B.mumiuæ transmarinæ select. z S., Salis Perlarum, Corallorum ana ziij. liquor. succini albi per Alcohol vini extract. Oss. de Cord. Cervi ana zj. lap. Bezoad. vnicorn. animalis vel miner. ana zj. Mosch. Ambr. ana zj.

In defectu auri potab. nullis corrosiuis coniquinati addantur oleorum anisi, carvi, aurant. nuc.

myr. caryoph_cinamo. succ. ana gut. 12.

Fi. ex his S. A. chymmassasen extranctum, è que ad necessarios vsus possint pillulæ esformari. And proceeding forward he noteth certaine observations concerning the Antepreparation of Opium and Hyosciamus and other circumstances, as also in particular the manner and way of their composition: the Dose hereof according to the Author, is from two graines to soure, and touching its vertues shalbe declared hereaster.

The fourth Laudanum is the Authors Nepenthes Aurea.

Re Essent. Opy, per spir. aceti cardiaci extract. zinij. tinctura croci more Quercetani extract. zinij. tinctura croci more Quercetani extract. zij. Lap. Bexoard. Regij seu auri puriss. more Spagirorum purpurizat. & in veram medicinam cardiacam redact. Dij. resina lig. Aloes, Ambragis. opt. ana Dj.

Let these things be well incorporated together in a small glasse vessell, and after-

ward

ward keepe the composition very close.

But because all these Medicines are both very costly, and curious to compound, and perhaps of no greater efficacie then some others which I make, and participate to my friends, I have made bould for the good of my country to set downe two, the one whereof was communicated to mee at a second hand, from the learned and eminent Physition Io. Hartmannus of Marpurge in Germanie, and the other by the no lesse worthy and my much respected friend, Maister Dr. Bonham of London, which are as followeth.

Laudanum siue philonium nostrum.

Re Opij cum spir. vini extract. Zvj. cai adde seq. tincturam vz. Re croci Zj. cinamo. nuc. myrist.garyoph. mac. torment zedoar bistort. ana z ij. s galang.angel. zz. ana. z ij. slorum cord.ana. p.i. pulver. omnia subt. & cum aq. Cinamomi q.s. Fi. extract. & misce cum supradict. opio. tunc adde Oss. de cord cervi, corall. alb. & rub. prapar. succin alb. coru. vnicor. lap. Bezoar. lig. aloes; solut perlarum ana. Dij. santal. alb. & cit. ana. Dj. fol auri pul. D ster. lem. vera gr. Xiiij. amb. grif. gr. X. mosch. gr. viij. omnia opt. pulver. & subtilist cribrat. in sine adde ol anisi gut. Xij. ol. nuc. myrist. gut. viij. ol. cinamo. gut. vj. Dosis a. gr. iij. ad v. cum corn. vnicor. & lap. Bezoar. ana.

gra. ij. & cons. ros. rub. 9 j. cum itur cubi-

Laudanum piæstantisse. D. Bohami.

Re Opy Theb. laminatum conscissi & postea exiccati zis. gum.hyosc. ziij. sem. hyosc. alb. zj. mummie Jj. garioph. Cinamo. ā. zij. rad.leuistic. cal. arom. gallan. zz. ana zj. castor. pip. nig. carpesiorum croci sinceri ana zs. labdan.belzoin. ana zij. pul.pul. & ponantur omnia in vitro angusti orisici cum spir.vini opt. q.s. ita vt quatuor digitos superemineat, ac bene claudatur ter quateruc in die agitando dum tincturam nigram obtineat, deinde tinctura esfundatur, & noui spiritus addantur donec tota virtus sit educta, tum in B.M. siat euaporatio S. A. dum ad extracti consistentiam peruenerit, siat áz Laudanum approbatum & tutissium.

Vsus huius est.

In sauis dolorum implacabilium paroxysmis vt pote colicis, podagricis, arthriticis, pleuriticis, stomachicis, Nephriticis. Itemin vigiliys, defluxionibus, hamorrhagiys & dysenteriys in expugnabilibus & prasertim in vomitu pestilenti & phrenitide summum arcanum.

Cautio,

Caurio.

Puellis tamen & senibus, quibus etiam vires vel magnitudine morbi vel doloris sauitia prostrata sunt, non confert. Quod si pulsus strenuns satis & vehemens appareat, siue persculo vei possis.

Extractio gum.hyosc.

Recort.rad byosc. in mense Mart. vel septemb. circa plenilunium collect. exiccentur in vmbra possitea purgentur & contunduntur opt. & in vast vitreo cum q. s. vini alb. artiss. includantur, tum in B. M. coq. per horas 12. vel amplius & rubicundam inuenes tincturam, quam exprimes è rad. fortiter, dein omnem bunc liquorem per siltrum transactum enaporato super carbones viuos donec tinctura remanet instar mellus, &c.

Aduert sments.

I My meaning is that Opium should bee first freed and quit from his sulphurous Malignity, by meanes of its exsicration aforesayd, and afterwards digested for the space of a moneth in distilled Vinegar, wherein good stoare of white Saunders, Balme, Redroses roses and Cinamon have beene infused, and lastly brought vnto the consistence of liquid Pitch, or somewhat thicker.

2 For Bezoar-Regall, I meane fine Gold, reduced into the forme of powder, by the Phylosophers dissoluting balsame, and so brought vnto such a true, reall, comfortable, and Bezoardick Medicine, that one graine thereof shall farre exceed six, or eight graines of the best orientall Bezoar; which (if need be) is very demonstrable.

3 That the (Saffron being pure and neate,) be infuled after *Quercetans*-maner in Limonwater, and so the tincture drawne, let the water bee enapored with an easie and gentle fire, lest the more excellent and subtill spirit

of the Saffron flie away.

4 To conclude, I put no Magistery or tincture of Pearle, Pretions-stones, Corall, nor of any other Cordiall things in my Landanum then you see, not onely because I find the foresayd tincture of Gold to bee as sufficient and availeable as all the rest, but for some other rationall considerations, which here I spare to speake of.

5 And for the Amber-grise put therein, I neuer knew any woman troubled with the suffocation of the Mother, seele any manifest nuisance, alteration or offence thereby,

of, let him but onely touch the Pill intended to be given vpon such occasion with a little oyle of Charabes or Amber.

These are the Laudanums, or Opiating compositions which I have bin contented to describe in this booke, which indeed are all very good and excellent in their operations, although they differ something one from another in composition, and diversitie of ingrediences, yet the principal base common

to them all, is meerely Opium.

The reason why I have not set downe the preparation of this Medicine in so ample and plaine a maner and forme, as euery particular Reader might desire to make himselse Master of the Mysteric, is in regard I would not wrong any prinate person, who by his great labour, cost and industrie, hath purchased and gotten a more peculiar interrest therein, as hauing sufficient understanding, knowledge and experience in the whole Art of Physick. For although I am willing to make every man, that shall read this Treatise acquainted with the vtilitie and profit which may redound and accrew by the vse of such a Medicine, yet is it not my intention for all that, to giue oceasion to many presumptuous perfons, which rashly, and without any true ground

ground other then their owne private gaine making practise in Physicke, will take in hand with a thing of so great consideration and importance as Laudanum is. And this is the reason also wherefore I doe so freely admonish and counsell enery one that loues his owne life, or the preservation of his health, more then the sparing of a sew scald pence, not to take this Medicine for any inward vseat any mans hand, but onely of such as have good knowledge therein, and will faithfully communicate the fame, not giving quid for quo, as some vnworthy Mercenaries doe, who commonly gape after their owne benefit and commodite, rather then the good and safetie of their sick patient.

Furthermore, I am not ignorant though a man may finde many Spagitists vaunting, and bragging they have this and that Laudanum, and other excellent Anodynes composed without any Opium at all, some saying they can make Laudanum with mixtion only of certaine Cordialls, others would make the world believe they have a certaine embrionated Sulphur of Vitriall, which is a most rare pretious medicine, and Somniferous Anodyne; but these are nothing but vaine oftentations, seeing that without Opium or some other things of equivalent

and semblable faculties it is impossible for any man to prepare any generall, true or certaine Anodyne; how be it I deny not, but by permixtion of certaine things differing one from another in tast, smel and qualitie, a man may compose a handsome counterfeit Laudanum, seeing that I my selfe can prepare such a Medicine of Numegs, Mace, Myrrhe, Saffron, Amber, Muske, Aqua-vita, Quintessence, of Sulphur, &c. without any Opium, the onely smell whereof will prouoke sleepe, and being administred will appease diuers grieses, yet for all that it is nothing so generall or availeable an Anodyne, that it may be compared in any fort with that prepared of Opium, or if it were a man might doubtlesse make as great scruple to take that as the other; for if Opium can indanger the body by its naturall somniferous qualitie, why should not another Aromaticall Cordiall do the same, which by art hath acquired the like facultie.

Moreover concerning the foresayd sulphurous Anodyne, although Paracelsus tells
wonders of such a one, in the seventh Chap.
of his booke De reb. natur. wherein he discourseth of divers minerall Sulphurs, it is so
(ingeniously with Crollius I confesse) that I
never saw any such medicine; for having tryed conclusions, and wrought long time vpon
Vitriols,

Vitrioll, I could neuer perceiue it had any fuch substance in it, which had like operation to that of Opium, as I have plainely manifested in my booke intituled Anatomia Vitrioli, divulged fine yeares fince; in regard wherof those are much deceived which by meanes of its precipitation with falt of Tartar, by boyling in an yron pot, or by meanes of sublimation doe separate a greenish powder from Vitriol, calling it Sulphur embryonatum Vitrioli, which being put to Vulcans Test, a man may quickly find it to be nothing but Copper, or being administred altereth the stomack, and rather prouoketh vomit, then either comfort or disposition to sleepe: it is therefore apparant that Paracelsus, inteded some other thing in this proiect then he vouchsafed to discoucr to vs.

Hence you may behold the reasons, wherfore we ought not to mis-prise, and vilipend
certaine things for vncertain, but content our
selues with the asoresayd Landanums, or such
like, with thankesgiving to the Author of all
goodnesse, not suffering our vnderstandings
to bee abused by the vaine storishes or idle
santasies of any other.

CHAP. IX.

Concerning the vertues and vse of all opiating Laudanums, aswell in general as particular.



Auing alreadie set downe the manner how to prepare Opium well, and to make excellent compositions thereof called Laudanums, it behoueth vs now to declare their vertues

and vie for the better direction and aduertisement to them which shall have occasion to vie the same.

The properties of enery Landanum, which is well prepared and correlled, as before sayd, are principally sixe.

inward paines proceeding of what cause socuer, and that at all times, and to all persons without exception of what complexion, temprature, age, or constitution of bodie socuer, onely having regard to the Dose, and other circumstances which are requisit for the Physicion to observe.

2 To prouoke those to sleepe which are
F 2 destitute

destitute thereof by reason of any corporall disease, or alteration of spirit, which things it effecteth without dulling or benumming the senses, weakning the members, constipating the bodie, or producing any cull accidents at all in them, as other Somniscrous things doe which are naturally cold, and il prepared.

3 To stop all vehement, subtill and corroding Cathurrous distillations falling from the braine vpon the lower parts, thickening them by little and little, strenthening the braine, and repressing the grosse vapors which rise from the stomacke vpwards, which are ordinarily the causes of such defluxions.

4 To stay naturally the Hamorrhagie, dysfenterie and menstruall fluxes, as also the Dyarrhaa and fluxe of the belly, proceeding fro the great distemprature of inward heate,

or some sharpe and biting humour.

5 To consummate and cease all burning Feuers and præternaturall heate, proceeding from any wound or vicer, or fro the fermentation or ripening of any cholerick humor, or

any causticke or venemous matter.

6 To roborate and strengthen the bowels and all the relaxed and feeble conduits, and those whose vertue retentine is weakened, by reason of some long sicknesse, or by the too much vse of purgative medicines.

Lauda-

Laudanum is more particularly vsed with good successe in these diseases following.

- 1 Against all maner of head-ach, as inueterate Megrims, Cephalalgia, or any other kind of excessive paine, having regard that the stomacke bee first clensed from all grosse and corrupt humours, the Dose is one small Pill to bee taken at bed-time, some two houres after supper, either in the water or syrrup of sweet Maioran, Betony, or some other Cephalick liquor, as the Physitions shall thinke good: or otherwise a man may take it in ale or broth, or swallow it dry as it is, continuing the same as long as need shall 1equire, that is vntill the paine be so tamed, that Laudanum is needlesse, which order must be observed in all other diseases, wherein it is vsed.
- 2 Against all subtill Catarrhons, Destillations which fall from the braine vnto the eyes, teeth, or eares, or vpon the inferiour parts, as the lungs, brest, stomack, &c. wherein Laudanum is vsed, as aforesaid, keeping the Patients head in the meane time neither too hot, nor too cold, nor suffering him to drink any wine, stale beere, or other strong drinke, as also to sorbeare eating of mustard, garlick, onions, all spices and other things of a hot

and drie qualitie, which further and prouoke too much the foresaid distillation. If it beconvenient to open the body you must vse no other purgative then that of Aloes, washed in rose-water, and thickned with the inice of Rheubarb, Manna, Syrrupe of Roses, or with a convenient Clister, which indeed is much better, for all other kind of purgative, dry and attractive medicines are very dangerous in such accidents.

and flatulent tingling, be it by reason of certaine wind inclosed in the braine, or of any other vapours arising from the stomack: this medicine is best taken in the water of Fennel, Sage or a little white wine going to bed as

aforesayd.

4 Against the ayrie Epilepsie (I speake vnto Naturalists) whose fits happen with great
ebullition of bloud, and afflict the Patient
with an Hæmorrhagie and great head-ach,
we vie to giue Landanum in the water of Pæonie, wild Poppy or other appropriat liquor
before or after the fit, and this must be given
once every quarter of the Moone in the morning before Sun-rise, causing the patient to
keepe a good diet, and to be let bloud in
due season and oportunity.

5 Against tooth-ach caused through any

hot

hot and subtill destillation, we vse to dissolue a little Laudanum in Vinegar, a sew drops whereof the sicke patient must take and hold in his mouth a while, and after spit it out, and so take more and more in that fashion, vntill the paine cease.

7 To those which cannot sleepe by any means, we commonly give a little Laudanum with a spoon-ful of the water of Hypericon or Balme, some twice or thrice a weeke, as long

as need shall require.

7 To those which have any great fluxe of bloud at the nose, or mouth, after due inquifition of the precedent cause, to the end Phlebotomie, Cupping-glasses, or other means for revulsion-sake may be vsed, which taking no effect, we should instantly give the patient a little Laudanum in the water of Plaintaine, bursa pastoris Tormentill, or rather (as most effectuall)in Aqua spermatis ranarum per descensum distillat. And if the bloud issue from the nose, we put a little lint therein, that is soaked in the sayd water and Laudanum mixed,and also apply some dipped therein to the fore-head, by meanes whereof the flux will immediatly stay: But if the partie hath bled much alreadie, vse no more Phlebotomie, but presently haue recourse to this remedie.

8 To those which are subject to too much F4 yomiting

vomiting and cannot brooke any meat on their stomack, by reason of some offensive matter there heaped & congealed, it is necesfary that expulsion of the aforesaid matter be first made by the fittest Emunctory, either vpward or downward, as occasion shal require; or if the vomiting proceed through the abu-dance of wind, or vapors inclosed in the bowels by reason of some obseruction in the reins (as often it falleth out) or of some other part in such case these obstructions should be opened with some good Distreticke, Diaphoretick & other convenient medicines, otherwise if the vomiting proceed from the particular debility of the stomack, fro some vicer, or any other cause then those aforenamed:In fuch case a man may administer Laudanum in the Syrrup of Quinces or Betony, reiterating the same as often as need shall require.

9 Against burning, malignant and pestilent Feuers (after convenient vse of vomits, Bezoardicks and other remedies sit to evacuate grosse humors, or purishe the bloud, if it be needfull) a man may give the Patient Landann in the water of Carduus-benedictus, Veronica, Celondine or such like, for in such cases it doth precipitate and consume the venemous wapors which arise fro the center of the body to the braine, causing madnesse, rage, phren-

fey,

fey, and divers other dangerous accidents, which by this means may be prevented, for it asswageth the extreame heat in Fevers, comforteth the body and recreateth the spirits.

10 In intermitting Feuers after due euacuation of the offending and groffe humors, by vomit or fiege appropriate, and the fubtil and thin by convenient Diaphoretickes, as also by giving respiration to the star of Microcosmick-fire by Phlebotomie, if need require, after which intentions (if the Feuer cease not) a man may bouldly administer Landanum in the water of Centory, Carduus-benedictus, Monseare, or others appropriat an houre or two before the fit, by which meanes twice or thrice vsed, I have seene many Aguish people cured when no other remedie prenailed, yet I will not affirme this to bee an infallible cure in all, for intermitting Feuers fall out to bee such many times, that the best Physitions in the world know not what to fay vnto them, seeing they mock and scorne (as it were both them and their medicines.)

ping in the bellie (hauing regard that the bodie be alwaies kept soluble by some Clyster or Laxatiue Medicine, we commonly giue Laudanum in a spoone-full of good

white-

white-wine; but the paine falling out too violent and intellerable we stay for no other remedies, but vse this at the very beginning, and the griefe being ceased, the Physician may happily proceed in his cure by remouing the offending cause, otherwise if hee shall see occasion.

12 In extreame paines and pinches which proceed from the small guts called *Iliaca paffio*, we administer *Laudanum* in the oyle of sweet Almonds, or Muscilage of Quince-seed.

Laudanum in the water of Chamomill or Mugwort, but if the paines doe particularly proceed from retention of the menstrues, then must the cause bee taken away by prouoking them with convenient medicines, neverthelesse the griefe being intollerable, Laudanum may be first vsed, for it ccaseth all paines, represent and consumeth all noysome vapours, which mount to the braine, and assisted women with privation of Sense, Strangulation, Epileptick sits, &c. without scare of any prejudice, by neglecting the cause, which the Physition may better meddle withall when the Symptomes are staied.

14 When a woman is deliuered from Child-birth, and her paines fall out afterwards to bee insupportable, causing want of

Sleepe,

Sleepe, Sounding, a burning Feuer, and great debilitie. In such a case Laudanum is found to be the most soueraigne remedie that can be, and hath no lesse vertue in the restrayning the too much essusion of bloud after birth, by giving only one small Pill as aforesaid.

In all'dangerous Fluxions of the Menfirues, wee vie to give Laudanum twice or thrice, or as need shall require, and it will doubtlesse stay them, so that the Patient vie a convenient diet and rest, and restaine from anger and other violent passions, altering and troubling the bloud, I have cured divers that have lost (in a maner) all the bloud in their bodies, by giving them onely Laudanum, and after taking a course to restore nature with convenient Viands, and to comfort the heart, cause them to take the Magisterie of Pearle, Corall, the Cordiall Elixer, commonly called the Philosophers Aurum Potabile, &c.

of the belly without bloud, having first evacuated the offending matter with Rheubarbe or other convenient medicines, according to the quality of the matter, & the part affected, we vse Laudanum with the Syrrupe of Quinces, once, twice or thrice, as need shall require, omitting in no wise expedient Phlebotomie, or any other outward meanes, whether

ther they be Vnguents, Plasters, or whatso-

17 To those which (having taken some naughty purgation) are fallen into a violent sluxe of the belly with no little danger of life (as by many examples is apparant) we give Landanum in a spoone-full of Red-wine once, twice, &c. vntill the fluxe cease.

18 In exceeding griefe in the Reines (called Nephritis) as also when the vrine destilleth by drops, scalding and corroding the vrinarie passages, much like to a strong-lee, Laudanü is given mixed with a little conscrue of Roses, or with some Syrrupe of Violets.

which are daungerously afflicted with the stone, after the giuing of a mollifying & carminative Clister, if the body be bound, and then it is best exhibited in Meath, or the Syr-

rupe of Liquirise.

by reason of some inward rupture, Laudanum is viually given in a spoone-sull of good wine, annoynting them outwardly with a little oyle of Nut-megs, and causing them in the meane time to keepe themselves very warme.

21 Against all Gouts, or paines in the ioynts, whether it bee in the Feet, Hands, Knees,

Knees, Hippes, &c. coniunct with inflammation, and when the offending matter is windie and vnconstant shifting from one place vnto another, in such cases to ease the paine, digest the matter, and thicken it so that it may bee more easily expelled by purgative meanes, or that Nature-selfe may consume it by insensible transpiration) Laudanum is certainely worthie great commendations, especially when it is given from the hand of a skilfull Physicion, that is with reason, vnderstanding and in sit time, for in such occurrences where the matter is so vagant and vncertaine, purgative Medicines doe more harme then good by sturring the humour over much, and causing inanition of the parts when the inflammation growes more wehement, and the ficke persons farre worse afflicted then before. To Arthriticall persons, in whom the offending matter is not so vagant, but constant and resident in one place, who suffer not onely great paine, but an extreame Feuer with debilitation, losse of naturalI rest and such like cases and Symptones, Laudanum is verie convenient at the instant to stay the violence, after which you may vse purgatiue medicines to take away the the cause with farre better successe then before, for if you should tamper and purge during these sits you would raise sundry others of greater danger, for such strong purgations as those which are able to exhale the offending matter from the joynts, would bee vsed when nature is quiet, rather then at such times as she is vexed, dejected & cast downe through violent paines and griefe.

ted with a burning Feuer, Inquietude, Hemorrhagia, or some other accident, whereby
the wound is incensed and in danger to gangrene: in such a case that Chyrurgian is worthie double honour, who knowes well
how to vse Laudanum, for the good successe

which vndoubtedly followes.

great paine by reason of any inucterate vicers in the legs, armes, or other parts of the body, as many times it falleth out, by giving a little Laudanum some two houres after supper, the paine will cease without faile. I had once in Smitzerland a certaine patient about 90, years of age in cure, who had two great vicers, which in 15, yeares did so torment him, that he could take no rest, night nor day, so that he was constrained to seeke about for some man to give him case; to whom having but begun

begun to administer a little Laudanum, hee immediatly recovered his natural rest, and shortly after was able to walke all the towne over, the which he could not do of long time before, so that onely by means of Laudanum hee preserved himselfe for the space of one yeare and a halfe together, at the end where-of hee died for very age, the vicers in the meane time, neate, cleane and open, and that without application of any other outward thing more then a linnen ragge dipped in the water of Spotted Persicaria, and so layd to the soare handsomely as I had directed.

24 Lastly when any person is tormented wirh any malady whatfocuer, and hauing tryed all ordinary remedies that can be deuised to take away the cause, and being not able to be holpen therby, but remain in continual torments, Dolor, Vexation & Watching, whereby the Radical moysture is sodainly exhausted, naturall heate extinguished, &c. In this case Laudanum doth merit to bee called the onely fourraigne salue for languishing people, seeing it ceaseth all their griefe strengthneth their inward parts, maintaineth naturall heate, and produceth such miracles in nature, that none can imagine, but such as have experience of the same, for I have observed many examples very remarkeable, as

that having my selfe, with good discretion and aduice administred Laudanum to some persons, when they have beene struggeling with death, and assaulted with intollerable Agonies, Paine and torments, they have had fuch comfort and ease, that presently after they haue in farre better sense recommended themselues vnto God, giuen order concerning their worldly estate, and yeelded their spirits into the hand of their Maker with quietnesse, great comfort and edification of all them that were present about them; But the contrary hath often fallen out and sill doth for want of such a Medicine, in whose Read there can be found no parrallel, as experience doth plainely declare, which ought to moue and stirre vp euery Physition, which neither knowes how to procure nor vse the same to acquit himselfe so much the more carefully of his charge before God and his neighbour, for there is no reason, particular opinion, nor any disputation ought to preuaileagainst charitie, by meanes whereof the whole vniuerse doth stand and continue, and whereupon all good Arts and Sciences are founded, so that wee halt in our dutie, when we neglect to search out and procure such things as are wholesome, good, and comfortable to ficke people, albeit they were inuented

ted and found out by Pagans or Christians, ancient or moderne, Gallen or Paracelsus or any other Author, whose opinio we hold for Oracles, we canot render our selues excusable before God the very searcher of the heart and thoughts: for experience being the great fundamentall booke of Physitions, which is daily read vnto vs by the light of nature, we should continually indevour our selves, nor only to understand but obserue, also her motions and directions, considering that (as Paracelsus saith) all the meanes and remedies which naturally cure ficknesses, are thetrue Canons and rules of Physick, which I would haue to be construed with all convenient exception, attributing vnto reason that which is agrecable, and vnto Authors the honour due vnto them.

Certaine Cautions and aduertisements for the better and more safe vse of Laudanum.

thing in the world (be it neuer so good) fit for medicine, wherein good indgement and discretion for its safe exhibition is not to be required, which indeed is the chiefest reason that mooneth mee to give further Caution and advertisement concerning the vse of Landanum.

r First although in the former passages it hath bin decreed, that this Medicine should be vied with diuers Vehicles in euery disease, yet there may happen some particular occurrence, that in one or other, the distilled waters and Syrrups aforesaid may not bee conueniently taken as well in respect of their qualities, smels and tast, as other particular properties antipathizing the ficke Patient, whereof wee haue seene diuers examples, as some that cannot induce the smell or tast of roses, others of Quinces, some louing sweet things, others not able to indure them, to some distilled waters are pleasant, to others they cause vomit, and other accidents, so that the Physicion ought to looke vnto all these things, and because such occasions may often fall out, it is best to administer Laudanum in Wine, Beere, Chicken-broath or some other Vehicle, agreeable as well to the Patients nature as his disease, whereunto great regard must be had.

2 You must not give Landanum twice in one day, vnlesse in great extremitie of paines for once will suffice, nor you ought not to exceed ordinarily the weight of three or source grains at a time, yet vnto a person of strong constitution a man may give from source to six. It is best administred at night two houres after supper,

supper, as aforesaid, vnlesse great occasion sall out otherwise, for then any time of the day must serue, according (to the old saying) necessive hath no law.

3 You must also have great regard that the body bee free from inperfluous excrements, which must be procured with some conuenient Laxatiue Medicine, mollifying Clister, or Suppositorie, but in leane and megre bodies, and such as feed very little, and such as are slender, full of heare and destitute of necessary humiditie and radicall moysture, hauing withall their veines full of blood, with such you must deale very warily, for they have more need then a man would thinke to have their heate cooled, and hume cted, rather then by purging the body, where no excrements are to dry the same more and more, for by diminishing the humours, heat must needs increase, and so will the bodie pine and consume away to nothing.

4 To Asthmaticall people, whose Brests, Lungs and other Organes are stuffed with Viscous and clammy slegme, you must take heed of giuing any Laudanum, for in such carses you must vie Medicines to dissolue and clense away the said matter, which Laudanum cannot do being a medicine of a corroborating and indifferent thickning nature.

G 2

Hydropical persons, which for the abundance of water conteined in them have much adoe to breath and dare not sleepe in their beds for seare of suffocation, yet after the watrie matter is evacuated, the Liver and other parts vnstopped with convenient medicines, and delivered from the foresaid Symptomes, then a man may be bold to give them Laudanum to Roborate the bowels, defend the body from subtill Desluxions and finish the whole cure.

6 Finally, Landaunum is not convenient for them, whose stomack is full of grosse humours which should bee euacuated with vomitory or Cathariticke medicines, nor for those which have the Small-pocks, which Symptomes should be taken away with appropriat remedies: In briefe, no man ought to vndertake the cure of any disease with Laudanum, which hath need of mitigation or helpe, either by Vomitories, Cathartickes, Diaphoretickes, Diuretickes, Alexitaries, Vulneraries, Phlebotomie, Diet, or any other appropriatremedie: And contrariwise it is idle to goe about to cure any discase with an other medicine, which of necessity must be cured with Laudanum: for euerie medicinall rule, and euerie Section of medicines haue under them

them their proper maladies for whose cure they are especially appropriated, yet not-withstanding wee are constrained many times upon occasion to mixe one thing with another, not only in regard that two or three diseases do often iump together in one body, but also for the varietic of Symptomes, and esfects that one only diseases may sometimes produce, so that one while one Medicine, another while another may be found to be most convenient, and agreeable. And this is the reason why I propose not Landanum for a universall Medicine.

C H A P. X.

Confuting three erronious objections which may be proposed against the use of Laudanum.

Ome 8. yeares since, being in consultation with certain Physicions, about a man which was troubled with a fluxe of the belly a month together, &

at that time together with the same had a continual Feuer, was deprived of naturall rest and mightily tormented with belly-ach,

G 3

number of medicines, yet he was become exceeding weake and feeble: vpon which occasion when it came to my turne to speake, I proposed Laudanum, for an excellent medicine in that case: but they vtterly dist king the same, came vpon me with these three objections following, which notwithstanding were not able to renverse or overthrow my opinion. To prevent therefore a mischiefe which may happen to some sicke persons for want of Laudanum, being denied the vse thereof vpon so slight reasons, I thought good for conclusion of this Treatise, to set downe their objections and my resutation of them in manner as solloweth.

The Obiections.

r First that Laudanum, being principally composed of Opium, and still reseyning its Somniferous propertie, might consequently suffocate naturall heate, and benum and suppesse all the senses.

2 Seeing Laudanum doth incrassate & thicken the subtill humors, it sollowed that although it did cease paine for the time, yet afterwards it made the cause of the sicknesse

malignant, fixed and incurable.

3 That

3 That it hath beene observed, that some sicke people have died some few houres after the taking of Landann, inconsideration where of we should abstaine from its vse altogether.

The Answere.

Concerning the first objection, I am of opinion, that if such men as goe about to propose any such thing, would either give place to the authority of great Physitions, or experience-felf (both which affuring vs that crude Opium, taken in small quantity, neither suffocateth naturall heate, nor dulieth the senses, as hath beene already sufficiently proued in the beginning of this discourse) they would neither blame, nor so basely esteeme of it; but suppose that a very smal Doso of crude Opium did produce such effects, must it therefore doe the same when it is depriued of the superfluity of its narcotical Sulphur, his Acrimonie corrected, and after mixed with fuch Bezoardick and Cordiall things as aforesaid? No man of judgement, or of any experience in the Mysteries of natute, can deny that Opin (the principall ingredience or Basis of Laudanum) being thus altered both in forme and substance, becometh likewise changed in its vertues and operations, and therefore can with G 4

with no reason censure so hardly thereof as when it is crude: And notwithstanding that Laudanü doth prouoke the diseased to sleepe, yet daily experience teacheth vs that it doth not suffocate naturall heate, but rather preserue it when it is about to consume, and in danger to be suddainely extinct by reason of its violent motion, extreame paines, and extraordinary watching, whereby it is as rudely handled as a lampe or burning-torch is in a mightie tempest, which causeth a greater wasting of oyle, and losse of light then it would doe if it were defended from such an accident.

2 For the second objection: Laudanumis so farre from aggrauating, impairing or making worse the causes of the disease by reason of its incrassating faculty, that quite contrary it prepareth some offending humours, and maketh them far more apt and casie to be expelled, as in the 21. passage before cocerning Gouts we have something declared; For is it not the consent and verdict of the best Physitions in the world, that the preparation of humors before purgation doth chiefly confist in two operations, that is in subtilizing and attenuating of those which are Viscouse thick and clammy, and incrassating and thickning indifferently those which are too fubsubtill, virulent, windy & vagant in the body? Now the greatest part of extreame paines and inward heates proceeding from some dissolued matter, that is either salt, sharpe or corroding, or from such as doth excoriate, inslame and alter the member affected, whereby malignant vapors arise, which passing vnto the adioyning parts, doe by consent produce sudry tormets, & many euil accidents as by experience is manisest: what better course can a man obserue, then by meanes of Laudanum to thicken and digest the sayd humors & sequestring & consuming the aforesayd vapours in such fort, that they can by no means exercise their cruelty as before? And in case of superfluity (if it be any waies requisite to be purged, a man may doe it afterwards farre more warily and safely then in the former estate: is not this represented to any mans understanding, by sundry outward vicers, which being inflamed and distilling from some subtill and corrosiue humour, cause great Pricking, Dolour and paines and oftentimes by consent a Feuer to the Pati-ent, so that the true remedie in such a case to take away such accidents is some excellent Anodyne, which may mitigate and asswage that vnnaturall heate, and suddenly ripen and indifferently thicken the offending humour

humor which was so subtill and corrosiue, which being done, al other Symptomes cease whatsoeuer; Laudanum then (not onely producing these effects by its naturall propertie, but also mundifying, resisting putrifaction, and healing, and comforting the weakened parts as it were Balsame) may by good consequence take away or extinguish the cause of many euill Symptomes, rather then impaire and make them incureable; for although it doth moderately incrassate, yet notwithstanding it doth not coagulate the bloud, not fixe the substances, which in their owne propernature are liquid in stone, nor soder or glue the parts together as Gypsum doth, for which cause onely men should blame it in such maner as before.

3 Thirdly, we will not deny, but that some sick person may chance to die soone after the receipt of Laudanum, but that Laudanum was the cause of their death, & that in regard therofits vseis vtterly to be abandoned and for-saken is the matter now in question.

First therefore it is very apparant by our former discourse, that Laudanum is not a thing of such a venemous quality, as will cause death to the receiver, for albeit the observation be true that some have died some after the taking thereof, yet that ought not

to supersede all other reasons, attestations & experience concerning the good effects, and safe vse of Laudanum, for as it is an absurd and foolish thing for a man to say, I did see certaine graines of Bezoar-Stone, Vnicornes-horne, Pearles, or such like pretions Cordials ginen to a ficke person who died not long after, ergo, that was the cause of his death, and therfore take heed of vling any luch thing hereafter: or I saw one giue a Clitter to such a sicke person who died soone after, Ergo, Clisters are dangerous remedies, and ought not to be vied, as many simple people are accustomed to argue; Euen so it is as absurd a thing to hold Laudanum in suspition, because fuch a one tooke it & after dyed, for although it doe principally and speedily cause all torments to cease, and prouoke the diseased to sleepe, yet that is no consequence that it can preserve a man from death, when by God his secret decree his houre is come, for neither that nor no other Medicine in the world can doe: sleepe and exemption from paines are necessary things, as well for found as sicke men, the one with distinction, the other without all exception; but that thefe two doe sometimes serue for the maintenance and strengthening of mans life, and other sometimes are vnnecessary, and of no vsc, this proceeds

ceeds not through any fault in themselues, but in nature which doth not receive them for her owne good and benefit, as other times the vieth to doc, which thing is lively represented vnto vs by the vse of meate, drinke and all other things called Medicines not naturall, which fometimes are good and profitable to the bodie, and sometimes quite contrary, euen as nature disposeth of them for our good, or euill, howfoeuer in themselues they are alwaics good, seeing without the no man can liue, we may easily perceive the veritichereof by the example of any man, who having watched, and travailed moderately vntill at last hee become drowsie and faint, who after a little sleepe, and repose being awakened, becommeth as lively and frolicke as at first. But if this man returne to his labour, and redouble his paines & watching in such sort, that hee surpasse the limits of his Arength, and so long vntill his vitall animall and naturall functions be vtterly disbanded and weakned, making such an exceeding alteration in his body and turning it quite vpside-downe, so that a dangerous and mortall disease insue: Now in this case, if he betake himselfe to this Medicine for rest and sleepe, thinking to finde like benefit and comfort, as before, he shalbe so farre from enjoying the

the same, that quite contrary he must needs pay the price of his life for his vaine excesse and intemperance. After the very same manner may wee iudge of such a sicke person as hath wanted sleepe beyond measure, indured intollerable paines, taken no food or nourishment, and become extreame weake and at point of death, who afterwards falling into a little sleepe of himselfe, or by meanes of a little Laudanum, or a spoone-full or two of some restauratiue liquor to comfort him; insteed of recovering his life by any of these, hee doubtlesse dies; the cause of his death notwithstanding ought not to bee imputed to the little sleepe hee had, nor to the taking of the Cordiall (feeing that sleepe and nourishment are two necessary things for the preservation of life) but rather in regard that death hauing feized vpon them, these things could not produce those good effects, which by natures intention they were ordained and appointed for. Let this suffice then to confute the third obiection aforesaid, in defence of well prepared and discreetly administred Laudanum . For if any man vsing Opium as the Turkes doe, or Henbane, Mandrage, or any other Narcociall thing so crude, raw, il-prepared or viscorrected hath or doth comit any notable error in that behalfe, it is farre from my scope or intention to defend any such abuse; my desire is rather that Physitions should beware how they deale with simple people, and lest the Art should bee flaundered, there ought to bee a fit time elected for the giuing of Landanum, that is at the first incounter of the disease, when there is good hope of cure, considering that wee must not onely have regard to purge Phlebomize, prescribe a Dyet, &c. to our Patients, but also to comfort and restore, to aduance and bring them to their naturall rest, and to cease and qualifie their torments. Moreouer wee should omit no occasion at any time, to ease and succour our neighbour, even untill the point of death, in all things wee may or can possibly, euen as wee would bee served our selves in the like case, and that with all convenient exceptions and protestation for the reason aforesayd; And this shall suffice for conclusion of this present Treatife.

Now I protest to every one that shall read this same, that I have no pretension in this discourse, to injure, or detract from those which worthily make profession of Physick, but onely desire to amplifie the knowledge

Of

of this medicine, for the benefit of such persons as are ignorant thereof, as I have before sayd in my Preface. And also to manifest the paines which I take, and the diligence I bestow to find out the properties, preparation and true vie of fuch things as are especially convenient and necessary in Physicke, and consequently to make it appeare, that those which (mooued with their owne proper passions) shall speake any thing against me, deceiue themselues, and derogate from that Noble name whence they are called Christians, thinking it no wrong to detract from anothers honour, so they may by that meanes or any other augment their owne, which I would have construed with all modest exception, intending not to touch any one mans name more than another, if their owne tongues bee not their owne accusors, wherby if they chance to manifest themselues they shall have no occasion to blame me, and therefore I commit my right to him which only knowes the hearts of men, and who administreth Iustice, Equity, Mercie and Grace,

vnto all his Creatures, to whom bee gloric for euer and euer.

Amen.

FINIS.

Faults escaped in the Printing.

In the Epistle Dedicatory Pag. 12. line 10. reade Calcining. In the Authors Preface p. 12. l.6. 1. iucunde. In the treatise p.2. l.1. 1. Dioscorides, p.11. l.12. r. nuisance p.16. l. 1. r. Complicentur, p. 19. l. 17. for amongst r. a. gainst, p.49. l.16. r. Mellis.









