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# CERTAIN VVORKES

of Chirurgie, newly compiled and  
published by Thomas Gale, Ma-  
ster in Chirurgie.



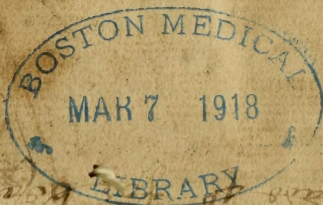
Printed at London by Rowland Hall.



14637 cl.

# The contentes.

1. An Institution of Chirurgerie. lib. i.
2. An Enchiridion containing the cure of woundes, fractures, and dislocati-  
ons. lib. iiii.
3. An excellent treatise of the wounde made with gonneshote, in whiche is confuted the grosse opinion of Jo. Wi-  
go, Brunswicke, Alfonso Ferrus, and others. lib. i.
4. An Antidotarie conteyning the prin-  
cipall and secreete medicines, vled in the art of Chirurgerie. lib. i.



*[Faint handwritten text, likely bleed-through from the reverse side of the page.]*



## The Epistle dedicatorie.

same, because they had first founde the arte to cure certaine virulent & maligne vlcers (which afterwarde according to the names of Chiron and Telyphus) were called Chironia & Telyphea vlcera. In the tyme of the Troians mortal warre, Podalirius and Machaon, being vnder Agamemnon, did merueylously profite the Souldiours in curing their woundes, taking out of Dartes and thyngs in them fired, and applyng healthful plaisters and medicines to the wounded partes. What necessitie is of Chirurgerie, & how much commoditie and profite by it ensueth, let them answer, whiche are by the benefite of this arte deliuered from payne, preserued from losse & mutilation of members, & defended from death it self: But here I holde backe my penne in further commendynge Chirurgerie, least it might iustly be answered of your Lordship to me as was to the Sophiste, who resiting a whole booke written in praise and honour of Hercules, said, who dispiseth Hercules: So in like sort, your Honour might answer, who dispiseth Chirurgerie: In dedde my good Lorde, none dispiseth it whiche are reasonable, and fewer enemies it shoulde haue, if the Professours them selues (in this our miserable tyme) were lesse greedy of money, and moore diligent to learne their arte. And although the malice of other make me heare to to holde my peace: yet if I may craue your Lordships suppoztation in so vertuous an enterpryse,

I shall



## The Epistle dedicatorie.

I shall not cease to set oute some of the partes of Chirurgerie: that thereby the yong and studious Surgians may be made the abler both to know, and also to exercise their art. And therfore I haue made a booke intituled the Institution of a Chirurgion: then I shewe them a methodicall practise to cure wounds, fractures, and dislocacions, in my booke called an Eucheridion of Chirurgerie. And for that I heare that many Surgians want knowledg of curing woundes made with gonshot (being nowe at Newhauen, vnder the right honourable L. Ambrose Earle of Warwick, your honours mosse deare brother) I for their ayde haue also compiled a treatise conteyning the particuler cure of gonshot. In which also I confute y<sup>e</sup> errors of diuers touchynge this question: whether the wounde made with gonshot is venomous: laste of all because the yonge men for want of tyme haue not iudgement sufficient, either to chuse out y<sup>e</sup> best & most conuenient medicines, or ells to compounde newe: I haue made myne Antidotarie, contayning the principall and secreete medicines v<sup>s</sup>ed in Chirurgerie. In which I doe not only set oute suche as the best wyrters maketh mencion of, and I by longe experience haue found profitable: but also I do open diuers new, and to other yet vnknowen of my selfe inuented. Beseechynge mosse humblye your Lordshyppe, to take these bookes (the first fruits of my labours) into your noble protection, and defende

The Epistle decatorie.

bothe them and me the Authour from the ma-  
lyce of busye Detractours. And I shall not onely  
haste other bookes, whiche I haue by me vnfini-  
shed, but also as my duty requireth, praye vnto  
the Almightye for your Lordshyppes longe lyfe,  
perfitte health, and daylye increase in ho-  
noure. At my pooze house in  
London, the sixtenth  
day of July.

1563.

Your honours moste  
humble and obedient  
seruaunt

Thomas Gale,  
Chirurgian



# W. Cunyngham Do-

ctor in Phisicke vnto his approued frende  
Thomas Gale, Maister in Chirurgie,  
salutations.



Hy cease you maister Gale? vvhath  
kepeth backe the publishing of  
your iiij. bookes, vvhich vwith so  
great trauaile, and perfite skyll  
you haue so happelye finished?

Doth feare of Sycophants and detracting ton-  
gues astoyne you? Or the mistrust of seuerer  
iudgemēt at the learned, kepe back your honest  
attempt? Let these be no impediments I shall  
desyre you, but banishe feare, and put from you  
mistrust. And as touching the maleuolent detra-  
ctors, it either nedeth not, or helpeth not to stād  
of thē in dread. Apes vvil euer haue apishe pro-  
perties, vwith mocking, mouving, & grinning at  
euery persō do vvhath you cā. I my self haue som-  
vvhat tasted of their curtesie, and therefore can  
better vtter their nature vnto you. They be such  
as for the more part are ignoraūt thē selues, or if  
they beare the face of learning, yet be they arro-  
gant & loiter in idlenes: & therefore to maintein  
their name, do carpe and reprehend other mens  
good labours, thinking thereby among the rude

A. iiij. multi-



multitude to get them more fame and honour. These haue not so muche hindered me vvith their serpentine tongues, as made me among the vvise and learned, of greater estimation. For although it be a common sayeng, yet is it moste true, **VIRESCIT VVLNERE VIRTVS**. But vvill you eschevve their sting and poyson? Be idle then, loyter, regarde neyther your duetie to God, nor yet to your countrey. this must of force be your shift, vvhich hovv honest it is, be you the Iudge your self. But you vvill faye peradventure, you are armed against this fort sufficiently not regarding their fors: and yet you dread the censure, and iudgement of the graue and learned. Surelye these you need least of all other to feare. For lyke as Apes can do nothing but apishely: so vvill the learned do nothing but learnedly, discretlye, and vvith great aduisement. They consider by theyr ovvne trauailles, that it is no trifling, but great paynes to vvryte in any arte or science. And vvhen they reade other mens labours, and fynde perhappes some errours, they reiect not the vvorke, they deface not the authour, but think vvith them selues **HOMINIS EST ERRARE**. And if the errours be such as are  
thought

thought not tolerable, they vwill not currisshely  
checke: but curteously admonishe, or els vvith  
theyr pen spedely amend it. Seing therfore that  
chattering Iayes may not preuayle against you:  
and that I haue ( as I suppose ) deliuered you of  
the mistrust you had in the learned : deferre no  
longer tyme , nor make no moore delays . But  
since your countrey craue it , your approued  
friends earnestly looke for it, and your duetye to  
both these require it: Kepe these bookes no len-  
ger in darknes, but let them taste of lyght. And  
as touching your request in your letters sent to  
me, to peruse & read your copies, to alter, chaūge  
and adde as I shoulde thinke good, I haue some  
vvhat satisfied your expectation herein . And  
first I see your great diligence in reading your  
authours in Chirurgerie, as Brunus , Theodori-  
cus, Rolandus, Launfrancus, Rogerus, Bartalpa-  
lia, Guido de Cauliaco V Vilhelmus Ier. Brunf-  
svvike, Vigo and other. And do also consider  
vvhat paine & great difficultie it vvas, to collect  
so perfite vvorkes, out of so imperfite authours.  
I speake it not to their dispraise , they vvere  
in the tyme of ignorauuce . But in my simple  
iudgement, if the follovvng of Galene, Aui-  
cene, Mesue, and others , of vvhome in your  
bookes

bokes you make so often mentiō had not stayed you, and your long experience conducted you, you should of force haue fallene into the huge pitte of cloudy & most grosse errors. Amonge vvhich these follovvng are not the greatest, but yet not sufferable in any case. For vvhat man is so mad knowvinge the nerues to be the cause of fealing, vvyll in vvoundes of the nerues bydde stitch the same? vvho is so bolde in great vvounds in vvhich there is fixed splentes, shot, arrowve heades, and such lyke, to geue the Pacient slepe drinckes as they call them? vvho is so rude in vvoundes vvith gonshot made thorovv a member, as to dravve an hearinge rope through the vvounde? Or vvhat ignoraunce appeareth in them all, in confounding the names of diseases and miscalling of simples? Doth not Guido the best of these authours rehearsed, cal oedema, vndimia? Erysipelas, hirisipela? scirrhus, scliros? and that vvhich I most meruayle at, that he calleth esttiomenon (vvhich is herpes exedens) mortem et dissipationem membri, and he interpreteth esttiomenon, quasi hominis hostem. Hovv farre from the matter it is, and hovv ridiculous an interpretation, let the learned iudge. I lothe to vvrite them, & repent the lost tyme in reading them



them. But these for a tast I offer, vvh whereby gentle reader thou maist the better iudge & esteeme the labours of the author our contry mā. VVho for hys countryes sake haue spared no tyme to trauaile, nor regarded his great expence. Yea & that vvhich is more, not his febled old corps vvhich is very vnapt to take so great a thing in hād. This for my part I dare bouldlye affyrme, that neuer in Englishe vvas so perfite vvorkes in Chirurgerie set oute: and I doubt vvhether in any other tounge there be in all poyntes any vvork extant in Chirurgerie vvhich vvith these may be compared. For if vve shall loke first of his institution in Chirurgerie, hovv pithylye plainely & compendiously doth he set out the hole body of the art, shovving the definitions, diuisions & also apt names of tumors against nature, vvoundes, vlcers, fractures, dislocations, and other like? Hovv diligently instructeth he the student in Chirurgery first in the theoricke and then in the practicke part? Then the student being thus trained vp & novv made apt to practise, he sendeth him to his Enchiridion in vvhich is set out the method of curing vvouūds both in the similer and instrumental parts, and also such apte medicīnes as are for thē conuenient.

He

He doth moreouer shew the cure of such accidents as do often chauce to vvoundes. Last, he doth open the curing of fractures and dislocations. Further more he hath finished a treatise of curing vvoundes made vvith gonshot, in vvhich learnedly he doth cōfute the long receiued errour that hath ben mainteined for truth, hovve that such vvoundes shuld be venomous. Hovv pleasant this argument is, & also profitable, I refer it to thy iudgemēt (gentle reader) mistrusting nothing, but vvhen you shall vvay his arguments, vvith theirs of the contrarye parte, you vvyll be vvholly of myne opinion. And yet this good Gale stayeth not here, nor is fatigate and vveried vvith these great paines: but hath also finished a golden vvorke, vvhich he calleth his Antidotarie: in vvhicke, is comprehended the treasures of Chirurgerie. There shal the Chirurgian hauing need of medicines vvhich do repell, attraete, resolue, mollifie, suppurate, mundifie, incarnate, conglutinate, cicatrize (and vvhat is els requisite to be vsed in the art) finde abundance, as vvell of those vvhich are called simple, as also of them vvhich because they stand in the mixture of diuers simples, are named compoūd.

There

There shall he also vvith smale payne, & great  
gaine receyue in one houre, that vvich in four-  
tie yeres trauaile vvith no smale expence, this  
Gale hath inuented and found out. These boo-  
kes are novv perfitley finished. He hath more-  
ouer in his hands diuers other vvorks (as I heare)  
vnfinished, as a booke intituled a compendious  
Method of healing tumours against nature: an-  
other, of the true and perfite cure of all kynde of  
vicers. Also a nevv translation of Guido de  
Cauliaco, vvith certaine briefe cōmentaries vp-  
on the same. Besides these: there be other, vvwhose  
titles I do not knowve. Therefore that these  
maye also come to thy vse, I shall require thee to  
shewe a gratefull heart, and thankfully receyue  
that, vvich he hathe vvith payne finished,  
and is freely vvithout revvarde offered. But be-  
ing delyghted vvith the argumentes of these  
bookes, I am digressed from ansvveryng the  
other part of your letter Maister Gale. You re-  
quired me, that since I vvas so earnest vvith you  
for the publishing of your bookes: that I vvould  
vvryte somevvhat in the prayse & commenda-  
tion of Chirurgerie. VVhiche thinge in myne  
opinion vvare superfluous, vvhen that there  
can be no greater prayse then is vvritten in  
your

your vvorkes. considering that through the benefit of this arte the vvoundid is made hole, the broken bones vnited, the Iointes being out of their naturall seat, reducid into their proper places, the hough and painful tumores expelled, & the virulent & maligne vlcers (vvhich doth eate and deuoure the members of man no lesse then mothes do clothes, & fire that is put to it) are vanquished and ouercom. Be not these great benefites? and such as nedeth not the cōmendatiō of other? But yet if these vvil not satisfie you, at the next setting out of other of your labours if this my vveake body may recouer strength (I) vvil to my povver satisfie your expectation. In the mean time: I bid you vvel to fare, & remēber your vvhyte heares are massengers to admonish you that you must leaue this vvorld, & repaire to the heauenly Chirurgian Christ. And therefore hast you for the time that remaineth, & finishe those vvorkes vvhich you haue in your handes.

Againe fare you vvell: and loue your Cunnyngham as you haue begonne. At my house in London the.28. of May



# An Institution

of a Chirurgian, conteynynge the sure  
Groundes and Principles of Chirurgerie most  
necessarie and mete for all those that will

attaine the arte perfectly : for whose  
cause it is compiled by Thomas  
Gale, maister in  
Chirurgerie.

Theorica pars.



PRINTED AT LON.  
don by Rouland Hall, for  
Thomas Gale.

1 5 6 3.

1563



THOMAS GALVS CHIRVRGVS  
ANGLVS ÆTATIS SVÆ 56

CAT.

# Thomas Gale Chirur-

GIAN VNTO THOSE THAT

desyre the knowvledge of Chi-

rurgerye gretinge. &c.



W<sup>h</sup>o thynge they are  
(soze to be lained, whi-  
che chiefly haue brought  
the most noble and aun-  
cient arte of Chirur-

rie to extreme decaye and ruine: one  
is that euery person good and badde,  
learned and vnlearned, Chirurgian or  
no Chirurgian, doe wythout penaltie  
and correction of lawes frelye take on  
them the practise of Chirurgerie. the  
other thynge is, that the Chirurgians  
them selues (I speake for the greater  
number) are vnworthye professours.

The fyrste we can not redresse, but la-  
ment: the second somewhat we both  
can and wyll labour to amende. For  
the greatest number of Chirurgians

I meane those that are their vnto

C.ii.

lawfully

lauffully called ) are so rude and vnskillfull in their art , because they haue no methode, no exact waie, or yet order in learnynge the grounds & principles of Chirurgery, eyther set oute of any authour whom they are able to vnderstande : or elles taughte of their maisters and tutours , or whom they should or instructed. So that they are confused in their studies, and make rather a rude chaos then a perfecte arte of Chirurgerye . For nowe it is come to thys poynte, that if they can get thys recepte, and that recepte as they terme it, they thynke they nede no futher stodye . So that the more receptes he hath, the greater Chirurgian he thinketh hym selfe to be : such ignorance now raygues, that recepts beareth the bell : theozike of Chirurgerye is quit forsaken, or not regarded. For yf you shall come to one of these greate maysters wyth their receptes, and aske hym what Chirurgery is , what ys the subiecte to Chirurgery



rurgerye , what is the ende of Chir-  
rurgerye , howe manye partes doth  
Chirurgerye consyſte on : they are  
conſtrayned to be ſilent and ſay inuain,  
or yf anye be impudent and ſpeake, he  
gyueth but a ridiculous aunſwere.  
¶ yet we wyl thynke a man not mete  
to be called an artiſte or workman,  
whiche cannot tell ( beyng required )  
what hys art is which he profeſſeth:  
although he hath neuer ſo manye  
inſtrumentes and tooles . For the art  
conſiſteth in the righte uſe of the in-  
ſtrumentes, and not onely in hauinge  
them . Whiche uſe is gotten fyrſt by  
learnynge the arte, and then by exerci-  
ſynge the ſame. And to learne the art,  
is required a Methode and Order: for  
woyth oute it, you ſhall neuer exacte-  
lye attayne the ſame . Wherefore  
we nowe accordynge to oure ſmalle  
poure and ſynple knoweledge, way-  
ynge the promyſſes, and hartelye wiſ-  
ſynge the redreſſe of the ſame : haue  
ſette oute the Theorique part of Chir-  
rurgerye

rurgye in thys presente volume con-  
teynynge the principles and sure-  
groundes of the arte, in suche order  
and methode as shalbe mooste con-  
uenient for the yonge student. And yf  
I haue not here in performed that  
whyche I desyred: yet I haue gy-  
uen occation to those that are bet-  
ter learned, to sette oute a more per-  
fytte worke of thys argumente. And  
I thoughte good to make it Dia-  
logue wyse for that it is mooste apte  
to teache and instructe by. For by  
thys meanes, all doubttes maye be  
bothe demaunded, & also aunswered  
fullye. And for because it is the  
fyrste Booke that one muste reade  
whyche wyll learne the arte, I haue  
named it the Institution of a Chi-  
rurgian, in whyche he shall see not  
onelye what hys arte is, but also  
what maner a person he muste be  
hym selfe: and what conditions are  
in hym required. further more what  
instrumentes he muste be garnished  
wyth, and howe he shall in tyme  
and

and place vse them ryghtelye to the  
profyte of the paciente ; honour of  
thys arte, and hys owne worshoppe.  
Wherefore their resteth no more , but  
that you take these my labours thāks-  
fully, and reade them diligently. Farre  
hartelye well : and forgette not to  
spende thy tyme to the profyte  
of the common weale . At  
my house in London the  
20. Daye of Māye.

1563.





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# AN INSTITUTION OF A

CHIRVRGIAN, CONTEYNING

The sure Groundes and Principles of Chi-  
surgery, by Thomas Gale. &c.

The Interloquutors.

Io. Yates, Tho. Gale. Io. Feild. Chirurgians.

John Yates.



Hoebus who chastis away the  
darke and vnconfortable night;  
castinge his goldyne beames on  
my face, woulde not sofer me to  
take anye longer slepe; but said  
awake for shame, & beholde the handy worke of  
our sister Flora, how she hath reuelled the earth  
wth mooste beautifull colours, meruay-  
louslye set in trees, plantes, herbes, and  
floures: in so muche that the old and wetheryd  
cote of wynter, is quite done away, and put out  
of remembrance. at whiche wordes of Phebus,  
my hart quickened in me, and all desire of slepe  
was estones forgotten. Wherfore I am now  
cumme into this beautiful mydolwe to recreate  
my selfe, and gather some of those pleasant  
herbes, and floures, whiche here doe growe.  
But let me see: me thinke I perceyue. ij. men  
walkinge to gether and reasonynge also very  
earnestlye. I wyll apzoche neerer vnto them,  
perchaunce they be of my acquaintaunce:  
Suerly I shoulde knowe them, I am deceyued  
of the

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## An Institution.

of the one be not my frende maister Gale, and the other maister Feilde. It is so in deade. Wherefoze I will go and salute them. God that hath brought vs together in to this place, make this daye prosperous and foztunate vnto you both.

Tho. Gale, Brother Yates the same we wishe vnto you, & you are welcome into our cōpany. Iohn Feilde. This faire and pleasant moynge, will not suffer maister Yates to kepe his bed: but leuyng the citye, he rometh the feildes, to espie oute some strange herbes, vnto hym yet vnknowen.

Iohn Yates. I muste of force confesse, that you doe hitte the nayle on the heade: but sence my happe is so foztunate, as to mete wyth you both, and that nowe in this pleasant moynge: I wolde leaue of my former determinyd purpose, and require you to enter into some talke of Chirurgerye. For sence you both ware brought vppe vnder Maister Ferris (beinge nowe Sergeant Cherurgian, vnto the Quenes Maiestie) one at whome bothe for his knowledge, & experiecc, you dyd not a lytle profite: and also that you haue had longe practise your selues: you shoulde meruaylously pleasure me, and profit other. for so may it come to passe, that it myghte be in the place of an Institution vnto those that shall here after desire the knowledge



**ledge of Chirurgerye.**

**Tho. Gale.** Your request is honest, and reasonable: and therfore not to be denyed.

**John Feild.** We ware abought the like thinge when as you saluted vs, wherfore renewyng our first talke, we will accomplishe your desire.

**John Yates,** I haue redde manye authour in Chirurgerie, and yet finde small profit by them.

**Thomas Gale.** What be the names of youre authours.

**John Yates.** Theodoricus, Brunus, Lanfrancus, Rolandus, Rogerus, Bartilpalia, Vvilhelmus, Guido, Brunsvicke, and Vigo.

**John Feilde.** What parte of Hippocrates, Galene, Auicenne, Paulus, Rhafis, Albucasis, and Haliabbas, haue you rede? theis be of greter authozitie, and of whom you shal learne sounde doctrine.

**John Yates.** Wytth theis I haue not ben much acquaynted.

**Tho. Gale.** Well, then the nexte waye is that you do put oute suche questions as you wolde haue answered, and stande in doute: and also answer to that which shalbe demaunded.

**John Yates.** right gladly, so; ther is no waye by whyche I shal so muche, and in so shoyte a tyme profit.

**John Feilde.** Truth it is, wherfore let vs beegin with

## An Institution

gin wyth out further detractynge of tyme.

Tho. Gale. When seying our talke shall wholly be the institution of a Chirurgian, it ware mete, and conuenient first to vnderstande what Chirurgery is. Wherefore answere me I pray you, what call you Chirurgie?

John Yates. Guido de Cauliaco (in his booke which he calleth his Collectorie) defineth it in this sorte. Chirurgie is a parte of terapentike helinge men by insition, vssion, & articulation.

John Feilde. Those wordes, are taken out of a booke ascribvd to Galen, beinge intituled Introductio, seu Medicus. But he should not haue called it corruptly terapentike, but therapeutike. For Therapeuticon is that part of phisicke, which curyth. this part consisteth eyther in curyng by conuenient diet: eyther by medicynes; or els by outwarde vse of the hãde. there Galen (or he that was autho; of the booke aboue said) affirmeth howe y which healyth by the hande, is a portion of the curatiue parte. this helpeth men by incisions, vssions, and reducinge the bones into their naturall seate.

Tho. Gale. Yet this is na perfect definitiõ of Chirurgerie, because the definition doth not contayne in it so muche, as to Chirurgerie is required.

John Yates. When you shall here an other definition

Definition out of Guido. He saith that Chirurgerie is sayde of this greke worde *Ciros*, which signifieth an hand: and *Gyos* that is worke, or operation: as who sholdd saye, Chirurgerie is the science of workynge by the hand: how like you this definition?

John Feilde. Moxe then the other, both for y it is no definition, but only the signification of the name: and also for that *Ciros* and *Gyos*, be no greke wordes, which shoulde shewe, that eyther Guido was no grecian, or els that his workes are corruptyd.

Tho. Gale. Truth it is, for Chirurgia, is derivid Apò tês cheiròs cai tou érgou, but both the description of Chirurgerie, & also the Etymologie & signification of the name, doth right wel shewe what Chirurgerie is; although it be no answer to our demaunde.

John Yates. When I pray you let me learne at your handes, what ys the true and essentiall definition of Chirurgerie.

Tho. Gale. Right gladly. Galene in his booke of medicinall definitions, sayth that Chirurgerie is the quicke and redy motion of steadfast handes with experience: or an artificiall action in phisicke, done by the handes: wherby is obteyned the desired scope. So that you may by theis wordes hether to aledgyd out of the introduction, and the booke of medicinall definitions,

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tions, forme a definition on his wyse. Chirurgery is the arte, whiche curyth those infirmities, & grefes of mans body, whiche are to be done by right vse, and application of the hande.

John Feilde. In this definition is to be notyd, that Chirurgery doth not cure al greifes which require helpe of the hande: but onlye suche as are curable. Also it is to be vnderstande, though in the definition is put no other wayes of curynge those grefes, but by the right vse of the hande, yet Chirurgerie hath nede both of that parte whiche curith by dyet, and of that whiche helpeth by medycine. As is moost euident & clere in great inflammations, & also in those bodyes in whiche Cacochimia (that is to say yll Iuse) is found, where the humours are defilyd and corrupted.

John Yates. When it shold seme that Chirurgery is so ioyned to the other two partes, that it can not be well seperatyd from them; although they be now two distincte artes.

Tho. Gale. Truth it is, and in the begynnyng, phisicke and Chirurgery ware both one: & one man exercised both, for so did the princes of phisicke Hippocrates and Galene.

John Yates. When I perceyue that Chirurgerie is not so base, as it is taken for: and that it is of great antiquitie, beinge the most ancient



elent parte of phisicke, and was exercisyd of Emperours, Kynges, Philosophers, and Physicians.

John Feilde. The basenes of it, and the smal estimation, comyth of the vnletterid and rude Emperikes: who takyth on them the office of a Chirurgian, whan as they knowe nothyng lesse, then what Chirurgery meaneth. but as touching the antiquitie of Chirurgery, you shal not beleaue vs, but regarde the wordes of Cornelius Celsus (whiche are wrytten in his. vij. booke) who sayth. *Hæc pars cum sit vetustissima, magis tamen ab illo parente omnis Medicinæ Hippocrate, quam à prioribus, exulta est.* This part of Phisicke (saith Celsus beinge the most auncient, yet it was moze increasyd by Hippocrates (the father of all Phisicke) then of al those that ware befoze his time. Here you maye perceyue, that it is the most auncient and eldyſt part.

Tho. Gale. The same Celsus also setteth oute certayne noble persons who daylye moze, and moze, did augment the art, soz it did flourish in AEGypte by reason that Philoxenus dyd exercise it. Also Gorgias, Sostratus, Hieron, the two Apollonij, & Hammonius of Alexander. At Rome also Tryphon and Euelpistius, and Neges ware ryght excellent in Chirurgerie:

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urgerie: and by there lerned woꝝkes, dyd cause the arte not a litle to floꝝshe. Podalirius, and Machaon (the sonnes of AEsculapius) being vvith Agamemnon, in the Troian warres, cured the woundyd Soudiours: as Homere the Grecke Poet affirmeth.

John Feild. All theis as you say ware right excellent in Chirurgery: and famous also, chesely for curing of woundes, and vlcers. In like soꝝte, was Chiron Centaurus, and Achilles, wyth diuers other.

John Yates. Seynge that I haue learned that Chirurgery is the. iij. parte therapeutike, what Chirurgery also is, of the antiquitie, & authoꝝs of the same: I wold gladly vnderstande of howe many partes it doeth consist & stande on.

Tho. Gale. It hath. ij. partes: the one called Theorike, conteynyng the speculation and knowledge, the other Practike, whiche is the manuell operation and exercise. The theorike parte, is obteyned by demonstration, and exacte knowledge of the pꝛinciples of the arte, and this, both doth inuente, and teache what is to be done, whiche way, and also by what meanes. This parte a man maye perfectlye knowe, although he neuer doeth exercise any portion of the practike. the practicke parte is founde oute and inuentyd by reason and experience, and it doeth

doeth rightly, and redelye exercise the same things, that the Theorike hath inuentyd. This parte no man can exactly obtayne, excepte that both he doeth se other whiche are skylfull in the arte to worke: and also diligently exercise it him selfe euer bearing firmly in minde, both what he haue sene of other men brought to good ende, and what he haue also done hym selfe.

John Yates. When seinge that you haue vttered vnto me holwe manye partes of Chirurgerye ther are: I pray you first beginne wpth the Theorike parte of it, and let me vnderstande exactlye what it is, and that beinge finishyd, procede to the practicke.

John Feild. To set out the theorike it wyll be profitable: but as touchyng the practicke it ware both superfluous & vayne, seying y the perfite curing of apostemes, & tumours, are set out in the booke of tumoures against nature, also the true & exacte cure of vlcers, is at large opened in another worke, whose title is a perfecte and exacte methode of curynge vlcers. Furthermoze the practise of healing wounds both in similar & instrumentall partes, also of fractures, and lustrations: you shall fynde in his Enchiridion of Chirurgerie. And as touchyng wounds made wpth the common gonpouder and pellet, you shall receyue the trew and methodicall cure,

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In a tretisse berynge name of curynge woundes made w<sup>th</sup> gonshotte, in whiche treatise is set out, and also manifestlye confuted, the grosse and sonde errours not onlye of Iohn Vigo, Alfonce Ferrius, and Hier. Brunvicke (which make the shotte venemous, and consequentlye the wounde therew<sup>th</sup> made, and so the cure to be lyke as is in venemous woundes:) but also by demōstration he ouertroweth al those, that be of that opinion. So that for the practicke parte, I do not se what is moze to be desired: excepte it ware some treatise, in whiche might be comprehended the arte of phlebotomie or lettyng of blode, and also of scarification, and boringe whiche I hope (God grauntynge hym lyfe) he w<sup>ll</sup> hereafter set out.

John Yates. There be a numbze of woorthye bookes, whiche do contayne the practise of so woorthye an arte. God graunt you longe lyfe maister Gale, to accomplishe that you haue yet behinde.

Tho. Gale. Although some perchaunce moze busie then lerned: and yet moze lerned, then discrete and modeste, and yet parhappes moze discrete & modest, then a fauour of those that trauayleth for the profit, and vtilitie of other: haue not a litle lifted by the groyne, & bent the brow, & with manifest wordes of contumelie rewarded me: yet the loue of my countrye, and desire  
to profit



to profyt those of my profession : shall euer be a sufficient spurre, to prouoke me to continue as I haue begonne , for trow it is that the Poet Vertius wryteth.

*Fœlix à tergo quem nulla Ciconia pinxit.*

Whiche maye ryghte well be englyshed, althoughe not verbatim yet in meanyng on this or lyke sozts.

O happie man that such happe hast,  
 Thy path to treade so right:  
 That no serpentyne tungue vvyll carpe,  
 Or longbild Storke eke Spite.

But returne we to that , from whence we are somewhat digressed. our talke , and communication at thys presente shall not further extende then to institute the Chirurgian in the theozicke parte of hys arte . Wherefore sence you haue learned what Chirurgerie is , wyth dyuers other apte , and nedefull thynges : it dothe behoue you to knowe the subiecte of Chirurgerye . For all Artistes and workemen haue their subiectes , and matter on whyche they doe exercise there arte . So the Mason hath the stones , and byrkes , whyche accordynge to hys arte , he helweth , squareth , cutteth , & ppropotioneth . In lyke sozte dothe

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the Carpenter wyth Woode , and Tymber and the Smyth wyth yron . All whyche be accompted subiectes to these artes . And yf the Mason Carpenter and Smythe , be so curious and dilygent, in knowyng , chosyng , and consyderynge of stoncs , tymber , and yron , whyche be thynges of no great balour oꝛ estimation : howe muche moze then behoueth it the Chirurgian to knowe what the subiecte is on whyche he must exercise hys arte?

John Yates. You haue ryghtly sayd, and by these your wordes I gather , that the subiecte to the arte of Chirurgie , is that whyche is to Physike : I meane mans bodye beyng apt aswell to sycknes and infyrmities , as also to health.

John Feild. You haue ryghtly aunswered , but thys is not sufficient to aunswere that mans bodye is that stone , tymber , yrone and matter whereon the Chirurgian muste exercise hys arte : excepte you also doe knowe the partes of mans bodye , there situation, nature , and office . as of bones , cartilagies ligamentcs , Perues , baynes, arteries , muscles , fleshe , and skynne . For I thynke no man is so rude but doth consider , that wythoute the perfect knowledge of these, how easely he shall fall into intollozable errours , especiallye in phlebotomye , in fractures , and lura-  
tions

tions, and where as occasion is offered to make incision.

John Yates. The more I here you two speake of Chirurgery, the further me thynke I fynde my selfe from the knowledge thereof. And so much the rather, that by your wordes I gather howe that the subiecte and matter of Chirurgerye (beynge the bodye of man) cannot be sully knowen, wythout the exercise of the Anotomye. Wherefore I cannot a lytle meruayle at some, who beynge Chirurgicalians in name, doe not onlye neglecte thys knowledge of Anotomye: but also Inuieth those that doe therein trauayle.

Tho Gale. Wel let such go wyth there willfull blindnes, & obstinate ignozance, and let vs nowwe consider what the ende of Chirurgery is.

John Feilde. I suppose that maister Yates knoweth that the ende or intention of Chirurgery, is to heale all suche curable infirmities, as are to be cured by the office and dewe administration of the hande.

John Yates. I render to you both hartly thanks, for that by your talke I have learned what Chirurgery is, the antiquitie of it, & noble authours that did professe it, of howe manye parts it doth consistte on, also what is the subiect or matter on whych the Chirurgicalian doth exercise his art, and what is the ende or final inten-

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tion of Chirurgerye: nowe I wyl further desyre you to shewe me the waye to procede in lernynge and obteyning thys noble and famous arte.

Thomas Gale. Befoze we set oute the waye howe to attayne the knowlege of Chirurgerie, it is conuenient to shewe what manner a man a Chirurgian shoulde be whome we shoulde instructe in this arte. For manifest it is, that all men are not to be admitted vnto thys mysterie.

John Feild: Truthe it is for accorpyng to the prouerbe. The diuell made a souter a thypman. signifying here by that nature repugning all thynge is in vayne. Howe vnapt and vnfyte thynke you, is a swyne to be taughte to hunte: suerly as vnapt, as a hounde is apte & fyte: but in the admission of one to learne our arte, is to be noted the gyftes of nature, & also education from hys infancye. For yf men exercising artes of lesse estimation and pryce, doe with diligent care chose suche as are fyte for their facultye & arte: howe much moze oughte he Chirurgian so to doe?

Tho. Gale. It is suerly so and the gyftes of nature required in hym that shoulde be a Chirurgian Cornelius Celsus doth name to be these. He must be a yonge man, hauyng a sure  
and



& stedfast hand, boyde of trimblyng, and that he  
 hath the vse of the lefte hande, as well as of the  
 ryghte, a sharpe and quicke sighte, one  
 boyde of all feare, wythoute soly the pittie: so  
 that he be no moued anye thynge by the  
 clamor and noyse of the patient. but minding  
 to cure hym, whom he taketh in hande, he  
 shall neyther haste moze then is meete, or yet  
 make lesse incision then is requisite. Hippocra-  
 tes in a hooke intituled Lex Hippocrates, spea-  
 keth of hym that shall learne Physycke in thys  
 sorte, Quisquis enim medicam scientiam  
 verè sibi comparare volit, hijs Ducibus, voti  
 sui compos fiet. Natura, Eruditione, Loco  
 studiis apto, Institutione à pueritia, Industria  
 & tempore. Primò nanquè omnium, natura  
 est opus. Hac etenim repugnante vrita fiunt  
 omnia. at si ad optima viam natura demōstret,  
 artis eruditio facilè eueniet: quam quidem  
 prudentia sibi comparet oportet, ita vt ab  
 ipsa pueritia institutio accedat, atque hoc in  
 loco disciplinis quidem conuenienti. Pre-  
 terea operam sedulò nauare oportet: camquè  
 ad longum certè tempus, quo ipsa iam insita  
 disciplina, foeliciter satis, & cum profectu  
 fructus suos ferat. Who so ener (sayth Hip-  
 pocrates) wyll learne the arte of Physycke,  
 folowynge

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folowynge these guides he shal haue hys desire. Nature, learnynge, an apte place for stodye, good byngynge vppen from the chylthoode, diligence, and tyme. For fyrst of all nature is to be looked for. For nature repugnynge, all thynges are frustrat. But yf that nature be inclyned vnto the best thynges, the knowledg of the arte wyll easely folowe, whyche it behoueth to get throughte prudence, so that from the chylthoode he be well trayned vppen, and that in a place apt for stodye, further moze he muste bestowe greate dilygence, and that for a longe tyme, so that learnynge ( beyng nowe grafted in hym ) maye happelye, and that wyth increase bynge forthe her frutes. And Hippocrates resembleth the stodye of Physycke vnto agriculture or tyllage. For ( saythe he ) what consyderation is of those thynges whyche the earth byngeth out, the lyke in all poyntes is of the knowledg of Physycke. For our nature is as it ware the feilde, the disciplynes of teachers, are like the seades: also the institution and byngynge vppen from the chylthoode, is resembled to the castynge of seade into the grounde in dewe and conuenient tyme, the place in whyche he must learne, is as it were the apte gyuynge nourishment to suche thyngs, as sprynge oute of the grounde. The industrie & dilygence bestowed in the art, is lyke the tyllage

tyllage of the plowman, and lasse of all, tyme  
dothe strengthen these , and suffereth them  
perfectlye to be nourished . And of thys tyme  
speaketh also the poet.

Afsiduo illifu durum cauat Vndula Saxum.

The vvatry droppes , so moyft and Softe  
Doth pearse harde Stones vvith falling ofte.

John Yates. If thys shoulde be obserued a-  
monge phisicians , I doe not doubt but their  
shoulde be moze famous men among vs , and  
fewer rude and bussardlye Emperickes ; but  
thys toucheth nothing the Chirurgian.

John Feilde. As muche as the Phisician,  
foz doe you not remember , that Hippocrates  
comprehended Chirurgiye vnder Phisicke  
beynge one portion of the curatiue parte?

Tho. Gale. Also as touchynge education  
Hippocrates in hys booke called De Medico.  
would haue a Chirurgian folow the warres,  
Foz he speakyng of the other partes of Phy-  
sicke saythe . Nexte is the Chirurgerye of  
woundes receyued in the warres , and extrac-  
tion of dartes and thynges in them fyred. Foz  
seloome cyuill and instestine diuisions chaunce  
in all tymes , yet in externe and outwarde  
warres , these chaunce molte commonlye.

Wherfoze

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Wherefore he that wyl vse thys Chirurgery, it behoueth hym to frequent the warres, and solowe outwarde armyes, and hostes of men. For so shall he be exercised for that necessitie and vse.

John Feilde. In dede so dyd Podalirius, Machaon, and Achilles, wyth other moze of whom mention is made.

John Yates. Yea but many Chirurgians wyl not occupye themselues in learnyng those partes of whyche they haue daylye exercise. Suche lesse then couit to solowe the warres, they haue not suche a burnynge zeale vnto their arte.

Thomas Gale. The moze pitye, not for their cause, but for the common weales.

John Yates. If all these pointes are required in him that shoulde be a Chirurgian (as I must confesse they are) howe happeneth it, that their are an infinite number of Chirurgians in name, whyche haue scarce one of these fornamed, gyftes. And yf they haue any, it is boldnes, for that wanteth not in them, they are as bould, as blynde bayerd.

John Feilde. Yea but where Celsus praiseth bouldnes in a Chirurgian, he meaneth the vertue called fortitude, whiche where as necessitie doth require, is not moued wyth the



the feares , countenaunce , and clamour e<sup>r</sup>ther of the pacient or of the standers by : but myndyngc the health of the sycke , according to arte maketh incision , and doth suche lyke thynges.

Thomas Gale. And to aunswer you, why their are suche a sorte of rude Emperickes yea Hostiers, Taylours, fletchers, Minstrales, Sou<sup>r</sup>ters, Fogelers, wiches, baudes, and to conclude (an infinite number whyche hertofore were p<sup>r</sup>ohibited the exercise of thys arte) suche as other wyse cannot get anye luyngc : is for that Chirurgerie is nowe , as it was in the tyme of Hippocrates . Who sayth that other artes are not exercised wythout lawes , and penalties : but Chirurgerye is free for all persons , the more is the pitye , when as so muche hurte and damage doz daylye spryng , through the abuse of so noble an arte. so that I am more then halfe perswaded, that Chirurgerye wyll hardlye , or neuer gather strength agayne, and florithe : excepte the p<sup>r</sup>ynce hauinge compassion of pooze deplozated Chirurgerye, both by vertue of lawes d<sup>r</sup>ive awaye from her , theis here sozenamed enemyes.

John Yates. But yet I doe meruayle at those , whyche are as it were Chirurgicalians by profession , knowyngc them selues boydc of a number of the poyntes required in a Chirurgicalian

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gian, that for loue to their contrye, and conscience sake: they wil not yet at the leasse chose suche seruantes, as had some of the fornamed vertues. Whyche yf they dyd, their were yet some hope that Chirurgirie shoulde hereafter flozyshe.

John Feilde. Their aunswere is, that when the skey fall we shall haue larkes. They thynke that they shoulde not haue seruantes to serue in that vocation. For few say they, that haue well brough vp there sonne, will put hym to the arte, because it is accounted so beggerly, and vile. Wher as in deade if for a season they woulde take the more paynes them selues, & admitte none, but such as shuld be somewhat meet, there wolde be a nombze glade to studeye the art, because it woulde come to estimation, and be a worshipfull luyngge to the professor. But shall I shewe you what I thynke is the chese cause; science hath no greater enymie, then Ignorance, and also the pro- uerbe is trew, like wil alway to the like, and hereof comith it, that suche carpenter suche chippes, suche maister suche man.

John Yates. Yet me thynketh that one maye be a good Chirurgian, though he haue not all the pointes reconyd of Hippocrates and Celsus. As one myght thynke hymselfe ryght happye, though he neuer dyd attayne to Ari-  
stoteles

Stoteles summum bonum, or Plato his Idæa.  
 Tho. Gale. It is one thing to say a good  
 Chirurgian, and an other to saye an excellent  
 Chirurgian. But let that passe, I woulde we  
 had good Chirurgians. And because the des-  
 criptions of Hippocrates and Celsus (touching  
 what maner a man a Chirurgian should be)  
 semeth somewhat to straitte to you: I will  
 shewe you what conditions Guido requyrezeth  
 in hym. Not so; that I do ppreferre the autho-  
 ritie of Guido, befoze suche fathers and parents  
 of Chirurgiery, as both Hippocrates and Cel-  
 sus ware, but because perhappes *Crassa crassis  
 conueniunt magis.* Guido requyrezeth. iij.  
 thinges in hym that is or shoulde be a Chirur-  
 gian. Firste that he shoulde be lettered,  
 secondly that he shold be expert, thyrdlie that  
 he be ingenious, and last that he be vertuous  
 and well maneryd. Theis woordes you shall  
 finde in his Collectorie.

John Feild. And as touchyng theis. iij.  
 pointes note first wher Guido sayth he muste  
 be lettered, he doth meane he shoulde be lerned,  
 and that cheselye in suche doctrine as is in his  
 art requisite. That is at the lest, that he can  
 wright, red, and vnderstande the mynde of  
 latyne authour. If he had knowledge in geo-  
 metric so; makynge his incision, so; curyng  
 fracturus,

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fractures, and luxations, and also in curinge malignant vlcers: knowynge what figure woulde mooste speedely vnite, and Joyne the lippes of the vlcere: it ware very commendable. Naturall Philosophie is a goodlye ornatyre to the Chirurgian, for it showeth hym what resulteth whan as there is diuers and sondry simples mixed to gether: but I will go to the second pointe, he must be experte, that is he muste be garnished wyth muche and longe experience, whiche is excogitated be firme and certayne reasons, and by them also confirmed, otherwise he is to be accompted rude, and an Empericke, if he hath not reason annexed and ioyned to his experience. Thirdly sayth Guido. He must be ingenious, vnto whiche there are fyue thynges principally required. Fyrst is the redye and good conceyvinge: then a firme and sure memozye, nexte a sounde and ryght iudgement, after a easely callynge thynges to mynde whych he haue harde or sene, and laste a lyuely and sharpe redynes in findinge and inuentynge remedies. The manners whych Guido woulde haue in a Chirurgian are reconed of Hippocrates and Celsus, whiche bryefely I wyll numbze: they muste be bolde and wyth out feare in suche cures as are with out peryll, and wheras necessitye requirerh, Also in cures that be doubtful, not to be  
to raiſe



to raise and haste, to be gentle and courtious  
 towarde the sicke pacient, to be frendlye and lo-  
 uing, towarde those of hys profession. Also  
 wyse and circumspecte in Prognostications, last  
 of all, he muste be chaste and temperate of  
 body, mercifull towarde the poore, and not to  
 greedy of mony, and this is sufficient touchynge  
 the description of hym, that muste be admitted  
 in Chirurgerye. Nowe let vs talke of the in-  
 strumentes wherewith a Chirurgyan ought to  
 be garnished.

John Yates.            That is well sayde and of  
 those instrumentes I wold gladly haue vnder-  
 standynge.

Tho. Gale.            And so you shal, & for the suerer  
 and sounder doctrine, you must note that instru-  
 ments are said two maner of wayes. for eyther  
 they are medicinal, or els instrumentes of metal:  
 as Iron, leade, tynne, copper, siluer, & golde, &  
 medicinal instrumentes are medicines, as potions,  
 emplastres, cataplasmes, cerotes, vnguentes,  
 oyles, Balmes, trochise, waters, & suche other.  
 but principally as touching vnguentes the Chi-  
 rurgian (after Guido his minde) ought alwaies  
 to haue in redines, v. sundry vnguentes aun-  
 swering to five intentions curatiue of Chirur-  
 gic, that is to say: for to suppurate and matu-  
 rate, he must haue Basilicon, to mundifie and  
 cleanse

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clense , Apostolicon . To incarnate and cause  
fleshe to growe , he shall prepare Vnguentum  
Aurum . To conglutinate wyth , he shall  
use Vnguentum Album , And where as any  
accidence chaunce , as dolour and payne , he  
shall occupye Vnguentum Dialtheum . But  
I shall not nede to make any longer processe of  
medicinall instrumentes , when as I haue as  
I suppose abundantlye shewed in my Antido-  
tarye not onely all the principall intentions cu-  
ratiue required in Chirurgiye : but also haue  
set oute medicinall instrumentes both symple  
and compounde , required in thys arte : as also  
their compositions vse and vertues. Their are  
also set oute proper medicynes , dicated and  
apted to the seuerall partes of mans bodye as  
heade, bzeast, stomacke , longes , lyuer , splene,  
kydnes, bladder, and suche lyke, as is proued of  
Galen in hys woꝝke intituled *Secundū locos*  
Althoughe manye be of the contrarye opinion.  
And amonge the restes I wyll showe you a no-  
table histoꝝye , I thynke to manye knowen , as  
well Phisitians and Chirurgians , as other  
woꝝhipfull and honest . It fortunēd that in  
London. 1562. that there was a fraye made, and  
the one was thurstēd thꝝough the bzeast vnder  
the pappe , and out vnder the lefte shouldeꝝ  
blade so that of foꝝce the longes were pēsed  
thꝝough

through. There were diuers Physicians called vnto the woundyd pacient, and they all affirmed constantly death to folowe. I also beinge called vnto the same pacient, did also affirme that death woulde folowe, excepte he receyued a certain potion of whiche I had experience in the like case in the warres, in England, France, Scotland, and other places: and he in dede receyued it, and so the longes were preserued from putrifaction and the congelyd blod was expellyd oute, the wounde clenysd, and finally bythe arte of Chirurgirie he was restozed to his perfecte helth.

John Yates. That man do I right well know, his name is Henry Smith a water man, he was hurte at quene hiue, and he is yet liuyng and in good helth.

John Feilde. Well then, let vs speake of metallyne instrumentes. of whiche some of them are generall: so called, for that they do generally serue in all woundes, and vlcers: and there are particuler instrumentes, seruyng to seuerall vses or partes of the bodye. Yet haue I hard that diuers affirme howe that in woundes generallye there nedyth no other instrumentes then an incision knife, to dilate and enlarge the wounde. and so wpyth the fingers to take out the thynges fixed, whether it be pellyt, splente, arrowe head, or what els so euer it be:

C. i. but

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but the errors of theis are so grosse as requir-  
reth no answer, seinge that throughe suche  
kinds of incisions, it happeneth the greate  
baynes, and arteries to be cut, and so greate  
flur of bloode to folowe, (beside the doullour, and  
payne whiche foloweth and many tymes losse,  
and mutilation of the membe) as is in no case  
sollozable.

Tho. Gale. Truth it is, but touchynge  
general instrumentes, those which are in most  
use and ought to be had in redynes of the Chi-  
rurgian are theis: incision sheares, an incision  
knyfe, a flewme, a lance, whose pictures you  
maye here set oute, and all this serue to cut and  
enlarge a wounde: a cauterizin Iron to cau-  
terize with, and stanch flure of bloode: a payze  
of pliers or nippers, to take of plastes, sple-  
geants and thinges fixed in the wounde, a probe  
to serche the wounde with. a crockyd hoke: a  
needle and a quill to sewe and stiche with.

John Yates. And what be the instru-  
mentes whiche are called proper?

John Feilde. Proper instrumentes are  
theis whose figures also folowe. as a trappan,  
seruyng to the heade whan as the scul or cra-  
nium is fracturyd, speculum oris, and specu-  
lum matricis, also gossipium, seruyng for luxa-  
tions and fractured bones. a sryngie masculine  
and



and also semyne setons for the necke, aluicatorie and longe needles of woode. to drawe through the wounde. also gasebilles, crowebilles, & diuers other described & set out of Albucasis, Celsus, Tagaltnis, and others.

Tho. Gale. Theis instrumentes be of meruapulous vse, and wyth out whiche the Chirurgian can nether perfectlye, nother wythout greate greife and peril do that is required, and amonge the rest in my iudgement the trappen is most necessarie, and of an excellent inuention in hurtes of the head. For wyth out it wher cranium is fractured, bressed, or els anye of the inwarde panicles depressed, you shall litle preuayle. I my selfe haue vsed it wyth great profit diuers tymes, and especiallye ons in Cambridge shyre, whiche I woulde declare vnto you, but that I shoulde be somewhat tedious.

Iohn Feilde. Pothynge lesse, but rather pleasant. for by utterynge of thynges done, great profit may inslowe, and we haue decreed to spende this daye in the talke of Chirurgirye wherfore we desire you declare that historie and we wyll geue diligent eare.

Tho. Gale. Right gladlye. Anno. 1559. a seruant of onc maister Mrothes, ridynge to the feildes and ledynge a ponge horse in a halter

C.ij.

tyed

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tyed fast abought the arme of the seruant: the horse beyuge wyld, and not broken, starkinge ayde vnhorsed thy man, and dyewe hym by the arme a bought a great scilde so long, that what wyth strikynge, what wyth drawynge, halynge and pullynge, being wored he stode still, vntyll company came and losed the halter, and toke by the man halfe deade, and conuayed hym vnto his maisters house. Chirurgicalians ware sent for, who syndynge. the seruant spechlesse, and wythout remembraunce of any on whome he sawe: they not perceyuyng the cause hereof them selues, nether yet could be shewed of the patient the place affected, departed and left hym as incurable. Maister Wroths sent for me, and I seinge hym spechlesse, and without remembraunce, coniectured the hinder parte of the heade to be hurte, and smittyn of the horse, whiche I was more certayne of, whan sclyng that parte I founde it softe. Wherefore I takynge of the heer, dyd made fyrste incision and after that set a trappan on his heade, and boored Cranium through, and toke oute the peace of bone, which done: ther yssued out muche blod, blacke in colour, and drawynge to putrifaction out of the contused and broken baynes. the nexte daye folowynge, the seruant spaeke and came agayne to his perfecte remembraunce, and I vsyng thynges in this cure as arte requyred,

red, God restozed the man in my handes to his perfecte helth. I coulde also shewe you other examples wher the like chaunces haue happened, and the Chirurgians eyther not knowynge, or wilfulye neglectynge this profitable instrument, haue brought the patients to there laste ende. so happened it to a seruaunt of maister Wagetes in sylpotte lane. 1538. and diuers other, whome for breuitie I do let passe,

Io. Yates.

This was a worthy cure, and this is a noble instrument, but the Chirurgians whiche neglecte thuse of this or the like instrumentes, are of the opinion of that the rude Emperike Smith was, who in a foliſhe boke of his published, did inuay against Chirurgians whiche trapened the heade in any grieſe of the same, and semeth to him selfe as it ware an other Thessalus to ouer throughe the famous authers, and Inuentours of this instrument. whan (in the iudgement of the lerned) he was no moze to them comparable, then the light of a sparke of fire, is equall to the mooste radiant and shyning beames of beautifull Phoebus.

Io. Feilde.

This nowe spoken of instrumentes (whiche a Chirurgian muste haue in redines) shall suffice, nowe let vs shewe the methode and way howe the person beinge fitte to be admitted to Chirurgrye, maye lerne the arte, lesse that confusedlye he lerne that firste,

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Whiche

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whiche sholde be last, and so set the earthe before the horse, to his no small hyndraunce.

Tho. Gale. And for this ther is to be followed and obserued two preceptes: firste, that we procede from thynges comon, vnto those whiche are particuler, or from thynges vniuersall, vnto more particuler. as first to knowe an inflammation, then howe many kyndes of inflammations there are. the seconde precepte is, that we begynne at thynges knowen and so procede vnto those whiche are lesse knowen, as firste in the curation of woundes, we muste begynne wyth a simple wounde: whiche done, we shall procede to the curation of compounde woundes, so in lyke maner in bleers, firste to knowe and cure a simple bleer, and then to take in hande compounde bleers, begynnynge wyth those that are lesse compound, and haue smallest accidents: and so to procede vnto those that are more compound, & haue most & greatest accidents ioyned wyth them. the like is also to be obserued in other arts, & sciēties, as in iudgyng of colozs, first to knowe whight & blacke, then other colozs which are not so manifest according as they com & spring of y mixture of theis. y. now knowynge & considering theis two preceptes, it is necessary for the right vse of his instruments medicinall, & metalline: to cōsider two thynges, that is to say, thynges called accordinge to natur and thynges against nature.

Io. Yates.

I pray you



What are those which are called accordynge to nature: & how many be they in nombre?

John Feilde. Guido numbzeth those thinges whiche are called accordynge to nature to be. vj. that is to say, helth, the cause of helthe, the effect of helth, strength, custome, & cōplexion. and helth is defined to be an effecte according to nature, apte to perfoyme the actiōs of the same.

Io. Yates. And what doe this. vj. thynges accordynge to nature, teache and sholwe me?

Tho. Gale. Because the Chirurgicalian is nature's freinde, & minister: theis sholwe you that you muste conserue & kepe them by ther like, & also to expel ther contraries, which wold distroy and ouertholwe them †

Io. Yates. And wherof do theis. vj. thinges spring, & by what thynges shall I conserue the: for although you say vnto me, y they are conserued & kept by ther like, yet is it not sufficient to my vnderstandinge, except you two sholwe me what they are.

Io. Feilde. I wyll tell you, theis. vj. thinges which are secundum naturam, spring of, vj. natural thinges entring the cōposition of mans body. that is to say. iij. Elements, fire ayer, water, yearth. cōplexions, as hote, cold, moyst, & drie. iij. humors, blod, coler, fleume & melācholic, mēbzes of mā's body. vertues, animal, vital, & natural, with ther operatiōs, & spirits. of theis. 7. natural springeth helth & y other reherced which are accordig to nature

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The conseruation of helth dothe consist in the right vse of.viij. thynges named in latyn res non naturales. lyke as in the abuse of them, the decay of helth and byedyng of sycknes and infirmities feloweth.

Tho. Gale. It is right so, and theis sixe are called, ayer: meate and drynke: motion and quiet: slepe and wachyng: repletion and inanition: and the perturbations or affections of the mynde.

John Yates. I trust I am sufficiently taught how to vse my instrumentes accoording to the indication taken of the thynges which are accoording to nature: nowe I pray you let me vnderstande what those thynges are whiche are agaynst nature, howe manye they are in numbre, and what indication is to be taken of them: for the further vse of my instrumentes.

John Feild. Those whiche are agaynst nature, are so called: because they are contrary to the same, and doe further destroy and ouercume nature, and are vtter enemyes to helth, and theis are.iiij. in nombze: sycknes, the cause of skynes, and the accident. the cause of sycknes, is that effects contrarye to nature, whyche goeth before the sycknes, and prouoketh the same, and ther are accounted of Galen, and the Grecians whome I folowe) two causes of  
sycknes

sycknes. the one beinge outwarde, called pro-  
 catarctike, or cause primatiue: the other is with  
 in vs, and is named the cause antecedent, or  
 precedent, or cause interne. sicknes also is defy-  
 ned of Galen to be an affecte againste nature:  
 of whyche the action of nature is firste hurte,  
 & bitiated. and the same Galen doth also make  
 ij. kindes of sicknes generallye, accoꝝdyng to  
 the partes of mans bodye in whyche they are,  
 as in the similer partes, sycknes is called intem-  
 perature, whiche is eyther hotte, colde, moyst,  
 or drye: or els hotte and moyst, hotte and drye:  
 cold and moyst: cold and drye: and yf it be in the  
 instrumentall partes, the sycknes is namyd, yll  
 constitution or confoꝝmation: but yf sycknes  
 happen bothe to similer and instrumentall  
 partes, then it hath to name, solution or diui-  
 sion of cōtinuitie. Also the accident is one effect  
 against nature in lyke soꝝte as the cause of sick-  
 nes and sycknes it selfe is: but it differet from  
 them in this, that like as the cause goethe be-  
 foze sycknes and prouoketh it: so doth the acci-  
 dent folowe sycknes, lyke as the shadowe doth  
 the man. nowe this woꝝde accident, is taken  
 generally, of whiche we wyll nothyng speake,  
 and it is vnderstande moze straytlye, or pro-  
 perlye, so is accidente. three wayes diuided. soꝝ  
 eyther the action is hurte and quite abolished,  
 as blyndelnes in the eye; or els diminished, as  
 diminishede

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diminisse of syght , or els the actions is corrupted as the syght decayed , and for the indication whiche is taken of theis three thynges agaynste nature : note theis twoo greate, (and of all men allowed) conclusions. Contraria sunt contrariorum remedia. also, similia conseruantur similibus. lyke as thynges whyche are accoꝝdyng to nature , are conserued and kepte by ther lyke : so also thynges contarye, are reinedies for ther contraries, and therfoze theis iij. thynges agaynste nature, sheweth you that they are to be expelled and put away by there contraries. as for example , solution of continuities beinge sycknes bothe of similar and instrumentall partes sheweth that he muste be put awaye by his contrarye, that is vniton and Joyninge agayne , also heat is put awaye by coldnes : coldnes by heate : drynes by moistnes, and moistnes by drynes : and so in like sorte in other sycknesses the indication is taken of the contrarietie. doe you nowe vnderstand this? John Yates. Right well, so that nowe I doe perceyue that the right vse of my instrumentes medicinall, and metalline, is takyng of thynges accoꝝdyng to nature , whyche sheweth the conseruation by lyke and agreable medicynes : and of thynges agaynste nature, whyche teacheth me to applye thynges contrarye



frary wher by I may take awaye all that which is againſte nature. but yf you wilbe ſo good as to ſet oute (though it be in breaſe wordes compendiouſlye) thoſe thynges agaynſte nature, whyche ſalleth vnder the handes of the Chirurgicalian, as you haue made playne to me thoſe thynges whyche are accoꝝdyng to nature: I ſhoulde thynke my ſelfe ſo muche bounde, as hardly I ſhalbe able to recõpence. for althoughe I knowe that thynges contrary to nature, are to be remoued by there contraries, yet if I haue not the exacte knowledge what theſe thinges are, I ſhall very hardly be able to applye and vſe there contraries.

Tho. Gale, It is ſuerlye ſo, for howe muche wyde you are in knowledge of the ſycknes: ſo farre wyde ſhall you alſo be in ſyndyng out apte and conuenient remedies, and thoſe perticuler greſes, or affectes againſte nature whyche are ſubiecte to Chirurgicalie (as Galen witneſſeth in the. 14. booke 13. chapter of his therapeutike methode) are for the moſte part reduced to. 6. Titles or chapters. that is to wete tumours againſte nature, woundes, blcers, fractures, and luxations, there be other thinges beſides theis which require the vſe of the hand: but theis rehearſyd perfectly knownen, thother wilbe eaſy to attayne vnto.

John

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John Yates. Then I praye you begynne fyrst wyth tumours, and those beyng fynished procede to the rest.

John Feilde. Fyrst it behoueth you to knowe that thys woorde tumour ( called in Greeke onchos) is not that whych Auicenne, and the Arrabians name Apostema, and the Latinistes call Abcessus. For tumour is a generall name to all apostemes, and tumours, where as thys woorde aposteme stretcheth no further but onely where as phlegmone is toyned into matter, & thzee other tumours called Atheroma, steatoma, & meliceris, so that this woord aposteme, is not so large and generall a name, as tumour is: and therfore abused of Guido, and other, where they call all tumours agaynste nature, by the name of apostemes.

John Yates. Why fyr, be not all tumours agaynst nature?

Tho. Gale. No for sothe, for then it had bene for hym superfluous to haue added these wordes, agaynst nature. And Galen in his booke De tumoribus præter naturam, maketh thzee kyndes of tumoures. One that is secundum naturam, accoꝝdyng to nature: as the byanes, muscules, and other empyencies of mans boꝝye. The seconde is called aboue nature: when  
as

as these fozenamed partes are increased more then their naturall forme , and fygure:but yet in suche sorte that the partes can doe theyꝝ officies. The laste kynde of tumour is called tumour agaynst nature. Because thy hurte the action of the parte whers it infesteth.

John Yates. I doe nowe cal to remembrance Master doctour Cunyngham who made also the same diuision of tumours .1563. when he red the booke of Galen of tumours agaynst nature to the Chirurgians of London in the hall, but I pray you let me learne what a tumour agaynst nature is?

Tho. Gale. Out of the same booke of Galen, you may gather thys desynition. A tumour agaynst nature, is an augmentation , or swel-lynge, excedyng the natural fygure of the same and hurteth the action of the same. But Auicenne saith that an aposteme ( soꝛ so calleth he a tumoꝛ) is a sicknes cōpound of thze kind of infirmities, that is to say of intemperatures , of yl cōstitutioꝛ, & solutiōs of cōtinuity: these words you shall finde in the first booke of his Canon.

John Yates. How many kind of tumours are there.

Io. Feild. Guido & other wyters of his time make iiii. kindes of tumoꝛs: Apostema, Pustula, & Exitura. Apostema he calleth a great tumoꝛ

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In whych the matter (whereof it springeth) doth offende rather in quantitie, then qualittie. pustula he doth make a lesser tumour, in whych the matter dothe hurte by qualittie, rather then quantittie. And thys tumour tharabians call Bothor. the threid, whiche Guido nameth Exitura: is that whiche the Grecians doe properly cal Apostema, & the latinistes: Abscessus. Thomas Gale.

But the Grecians doe make differences of tumours, accordynge to the substance wherof they doe spring. so that there be but two kyndes of tumours generally. that is to say. humoralis, springyng of humours, and flatuosus commynge of wyndye spirites: this Guido termeth Apostema ventosum.

John Yates. And howe many differences is ther of tumours whych do spring of humours?  
Tho. Gale. Two, simple, and compounde.

John Yates. Howe many simple be ther?

John Feild. There be also. y. hote & colde

John Yates. Why are theis tumours called simple and compounde?

Thomas Gale. They are called simple, whan as they springe of one sincere humour, with out the mixture of other. and they are called compounde, whan the tumour cometh of two



or moze humoꝝs.

John Yates. **Wherfoze are the tumoꝝs called hotte, or colde?**

Tho. Gale. **They are called hotte, because they sprynge of hote humoꝝs: and named colde by the lyke reason, because thy are ingendꝝd of cold humoꝝs.**

John Yates. **How many hotte tumoꝝs be ther, and how many colde?**

John Feild. **Diuers, and sendꝝe, as you shall perceyue by the processe of our talke. but the most famous are foure: sprynge of the fty. humoꝝs simple, wyth out the myxture of other of theis two &c.**

John Yates. **Whiche be thay.**

John Feilde. **One comyth of blode, and is called Phlegmone, in Englishe, inflammation: an other sprynge of coller, and is called Erysipelas, or S. Anthonies sꝝer: and theis be hote tumoꝝs. an other cometh of fleume, and is named Oedema: the foꝝth is ingendꝝd of melancholie, and hath to name Scirrhus. This two tumoꝝs, are colde, all other simple tumoꝝs are aptly reduced to theis. fty.**

John Yates. **And what be the compound tumoꝝs?**

Tho. Gale. **They be diuers and varieth ther names accoꝝdꝝge to the mixture of humoꝝs.**

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mors. and the humors are mixyd, equally, or in-  
equally, if they be myxed equally: then the tu-  
mour is called Phlegmone and Erysipelas. but  
yf they be inequallye mixyd, then the tumor,  
taketh name of the humor whiche surmount-  
teth, as blod surmounting choller, in a tumor:  
it is called Phlegmon Erisipelatodes, if fleume  
be myxed with blode in stede of coller in forme  
as is aforesayd: then the tumor is named phleg-  
mone Oedematodes, and if blode myxed with  
melancholy surmounte it is called Phlegmone  
scirrhodes. so in lyke case there are. iij. tumors  
whiche take names of the humors myxed with  
colloz, coller hauynge the dominion as whan  
blod is wyth colloz they call the tumor Erysipe-  
las Phlegmonosum. If fleume, Erysipelas Oe-  
dematosum, and if melancholike then the tu-  
mor hath to name Erysipelas scirrhosum in lyke  
maner, fleume hauing dominion in the moisture  
wyth any of the other thzee humors, the tumor  
is firste called Oedema, and then yf coller be  
mixyd wyth it they adde this worde Erysipela-  
tosum. If blode the tumor is called Oedema  
Phlegmonosum, and yf melancholie, then is it  
namyd Oedema scirrhosum, and to conclude,  
the lyke is to be sayde of melancholie whan as  
any of the other. iij. are mixed wyth as scirrhus  
Plegma-

Phlegmonofus, scirrhus Eryfipelatofus, and Scirrhus Oedematofus: blod, coller or fleume beinge vnequallye mixyd wyth melancoiye.

John Yates. **W**hat profit inſueth to the Chirurgian by knowynge the mixtur of theis humoꝝ, in tumoꝝ againſt nature?

John Feilde. **G**reate profite, for by knowyng the true mixture, he is taught therafter accordingly to vary his medicines. for like as a ſimple tumour hath a ſimple cure & is curyd by his contrarie: ſo a compounde tumour hath a compounde cure & is curyd by his contrarie. as for the moze plainer vnderſtandyng, if y<sup>e</sup> tumour be mixyd of fleume and melancholie equal<sup>ly</sup>: then ſhal you equally mixe ſuche medicynes together, as are conuenientlye vſed in Oedema and Scirrhus, But if fleume, and melancholie be inequally mixyd: and the greater portion is fleume, then in the compoſition you muſt in lyke maner put the greter portion of ſuche medicynes as you vſe in Oedema, and the leſſer of ſuche as are applyed in Scirrhus. and this rule, and pꝛecepte is to be diligently obſerued in all compounde ſycknes, and for becauſe the mixture of theis tumoꝝ, is ſo neceſſarie for a Chirurgian, as you maye righte well perceyue by that whiche is nowe ſpoken: beholde this table which ſhoweth you all the mixture and names

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of tumors against nature. **W**hich soz the great profit wolde be commytted to **H**emoyze, of him that wil haue the **M**ethode of curyng cōpounde tumors against nature.

**I**ohn Yates. **Y**ou promysed to showe the tumors which are refered to the .iiij. principall simple tumors, **P**hlegmone Erisipelas, oedema: and scirrhus.

**I**ohn Feild. **A**nd that we promised, we will perfozme, first uttering ther names: & that being done, we wil show you ther definitions. **A**nd we wil begin w<sup>th</sup> sanguine tumors, which are refered to **P**hlegmone: & then procede to the reste. **T**here are refered to phlegmone: **P**hygethlon, **B**ubo, **P**hyma, **D**othiennes, **A**nthrax, **g**argareon, **P**aristhmia, **a**neurisma, **G**angrēna, & **S**phacelus.

**I**ohn Yates. **W**hat is **P**hlegmone?

**T**ho. Gale. **G**alen affirmith phlegmone (oz as we cal it in **E**nglish, an inflāmatō) to come of the flux of blode by the greater vaines, & arteries, buto those which are lesser: & frō them into those vaines which are lest of all (which because they are no greater then heres, are) called capillares. **T**hese vaines beinge fylled w<sup>th</sup> this continual flux of blod, part yssuith out be y<sup>e</sup> mouthes of the vaines: & part by y<sup>e</sup> cotes of y<sup>e</sup> same, whereby the boide spaces are filled, inflamed, disten-

**D**ED



ded & stretched out. And this tumoz galen calleth the inequall intemperature of the muscle. And note, that there are two kindes of inflammations. One which is called vera inflammatio, & this springeth of good and naturall blode. The other is named Non vera, coming of yll and vni- naturall bloode, and this is common to all inflammations.

John Yates. What cal you Phygethlon?

Tho. Gale. That which Celsus nameth Panus and this tumour is an inflammation of the glandilous partes in the necke armpites and grine, which yf they be indurated after this inflammation, ther cometh tumozs which is named Choerades in latine strumas and Guido nameth them scrofulas and then this tumoz is numbred amonge flegmatike tumours. And is wyth vs vsually called the kings euyl: because the kings and Queenes of England (by a diuine and peculiar gyfte of God) doe cure suche as are molested wyth this infirmitie, whan as no arte of Chirurgerye can take place. And thys differeth muche from that syknes whych the Latynesttes name Regium morbum.

John Yates. Wherefoze is it called in Greeke Choeras?

John Feilde. Cyther of Stones appearing  
F. ij. by

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by the Seas, or els of Swyne whiche are often bered wyth this tumoz.

John Yates. As touchyng Bubo, Guido calleth it a flegmaticke aposteme, wherfoze I wyll let that passe vntyll we come to the reasonyng of the same,

Tho. Gale. You seame to accuse vs of errour, or ignoraunce whan as we shoulde numbze flegmaticke apostemes as you cal them amonges sanguine tumours. But I wyll this affirme boldlye that Guido eyther meaneth some other tumoz whiche he so calleth: or els he repugneth manifestly wyth Galens authozitie, for Galen maketh Bubo a simple inflammation of the glanteious partes in that flankes.

John Yates. I doe not accuse you but rather thowe you Guido his mynde: which seing that it doth not agree wyth Galenes I muste gyue place and alwaye preferre Galen before Guido. Wherfoze I pray you procede with the other inflammations and thowe me what the tumoz is whiche the Grekes call Phyma.

To. Feilde. This tumoz is a pushe which wyll presently as yt ware come to suppuration, and it is called Phyma by similitude it hath with puffes or murthermes spryngyng oute of the yearth, and ther be two kyndes of theis tumours, one comyng of heate, an other of coulde  
but

but we in this place do nombre onely the hote tumoz amonge inflammations.

John Yates. Dothienes soloweth nexte in order.

Tho. Gale. Dothienes in Greke, is called of Auicenne, Aldemurenul, of Celsus furunculus, with vs a felone or cattles heare, & is a sharpe swollynge wyth inflammation chancing in the fingers with dolour & toz meth to matter spedelye, and theis often haue a feuer ioyned with them.

John Yates. What is Anthrax?

Io. Feild. That same which we cal Carbunculus. and is an vlcerosus tumoz springyng of grosse melancholycke bloude putrified. This tumoz soloweth greate inflammations, and ther are two kindes of carbuncles. the one moze fentle and benigne: the other pestilential, and moztall, and the carbuncle is both wyth pustles and also without.

John Yates. Guido maketh difference betwixte anthrax and carbunculus.

Tho. Gale. Ther is no difference at all, but that anthrax is a greke worde & Carbunculus a Latyne. For Guidoes difference wher he maketh anthrax a malignant tumoz, is no other thing then the pestilential carbuncle. but his di-  
 rtuation of the name is moze ridiculous where

F. ij. he saith

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he saith that Anthrax is said of Antra, whyche he saith signifieth the harte, but in what tungne Antra is vsed foꝝ the hart that he left vnwrittē. sure I am, that it is neyther latyne, Greke, noꝝ arabicke woꝝde.

Io. Yates. **W**el then I am here in satisfiēd touchynge the Carbuncle, what desygne you Gargareon to be?

John Feild. Gargareon called in latyne Columella is an inflammation of vuyla, like as Paristhmia oꝝ tonsille are inflammations of the kernelles situated in the beginning of y<sup>e</sup> iaues. Guido & other of his sect call them Amygdalas.

John Yates. Anecurisma is nexte.

Tho. Gale. **T**his tumoure is no other thyng, then a dilatation oꝝ rather relaxation of the arteries, wheroby the bloode and spirites are disperfed makynge a softe tumour whych beyng pressed, with the syngers semeth to banish away: but the syngers taken agayne away, the tumour cometh to his wonted bygnes againe.

John Yates. **I**f you doe in like soꝝt set out what Gangrena & sphacelus are then you haue finishēd all suche tumoures as are referred to flegmone.

John Feilde. **G**alen in hys second booke whych he wꝝotte to his frende Glauco desygne



gangrenam to be a mortification of the member vnconformed, springing of greate inflammations. And Sphacelus called of diuers wyters Aschachilos, and of the latineſtes Syderatio is the exacte and conformed mortification of the member.

John Yates,           Then by your wordes I gather that bothe Gangrena and Sphacelus followe after greate inflammations: and that they two differ in this, that Gangrena is as it were in growing and increasing euer moze and moze towarde mortification of the member: and sphacelus is whan as Gangrena ceaseth to corrupte further the member, and that is nowe perfectly mortified and deade voyde of all naturall heate, blode, spirites, and feeling.

Tho. Gale.           You haue rightly sayde.

John Yates.           Then sayng we haue thus ended suche sanguine tumoures as are referred to Phlegmone, I praye you in lyke maner procede in the colozicke tumours whyche are of like affinite with Erysipelas?

Tho. Gale.           Wee wyl so doe . Unto Erysipelas are referryd Herpes, Phlyctene, Epinyctides and Hydroa . But fyrſte wee wyl define what Erysipelas is, and then procede to the reste.

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John Yates. I thanke you that you will accomplishe my request and desire.

John Feilde. Erysipelas beyng of much affinitie with Phlegmone, called also of the Latines *ignis sacer*, of vs *wylde fyre* or *Saincte Anthonies fyre*, is a fluxe of collic staying aboute the skynne nothyng molesting the fleshe. And it differeth from Phlegmone fyste that there is no pulsatiue dolour in it, then that in the inflammation of bloode the colour is alwaye redde: in Erysipelas the colour is yelowyshe pale: laste that Phlegmone ys an affecte of the muscules: and Erysipelas is onely of the skynne and thys is to be vnderstande of *Verum Erysipelas*.

John Yates. Is there any moze then one kynde of Erysipelas?

Tho. Gale. Haue you forgottē that which was befoze rehearsed of compounde tumours? And that there was Erysipelas Phlegmonosum, Oedematosum, and scirrhosum? These be comprehended in dede vnder the name of compounde collozicke tumours or Erysipelas illegittimum.

John Yates. So then you make two kinds of Erysipelas *verum*: and also *illegittimum*.

John Feild. It is ryghte so. And that  
which

Whyche is illegittimat or not ryghte Eryfipela<sup>s</sup> is also diuided into two kyndes. The one comyng of the groser and thicker sencere collic and is named Eryfipelas wyth vlceration and the other is collic harynge other humoures mixed with it as I saide before.

John Yates. Seynge then that I vnderstande what Eryfipelas is, and howe manye kyndes also there are of them: I praye you let me vnderstand what herpes, is so; that foloweth nexte in order.

John Feilde. Herpes is that tumour and affection of the skynne whyche Hippocrates so dothe name of corrodynge and deuourynge the skynne; so; herpo is that whiche is called in latyne Serpo whereof commeth hérpys quasi serpens. And there is two kyndes of herpes, one called herpes Estiomenos, so called because it eateth and deuoureth: the other is named Cenchros in latyne miliaris so; that the tumour is like Millit seade.

John Yates. Guido dothe speake of Estiomenus in this wyse. Estiomenus est mors et dissipatio membri: et propter hoc dicitur Estiomenus, quasi hominis hostis, cum putrefactione & mollificatione membri.

Tho. Gale. Where Guido sayth that Estiomenus

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Estiomenus is the death and dissipation of the member and soz that is called Estiomenus as who shoulde save the enemye of man, comynge with putrefaction and mollification: I do litle in my Judgement alove hym, first that he leaueth the princes of Phisicke Hippocrates Galene and Paulus, and soloweth those of smale lernynge and authoritie: and then that he will seame to interprete that tungue in whiche he had small knowledge. soz wher ded he ever red amonge the Grecians that the tumour Estiomenus was confoundyd with Sphacelus, which in dede is the mortification of the membze, and agayn wher lerned he the deriuatiõ of Estiomenus to be hominis hostis. But this maye yet seame tolozable in Guido, whan that Auicenne gyuyng occasion of error to other, comprehendynge both kyndes of herpes, vnder the name of formica, doeth also mooste absurdlye comprehend myrmecias (that is to saye formicas and is a kynde of wartes) vnder the name of herpes and so confoundeth bothe to gether. but this shall suffice touchynge herpes.

John Yates.

Then let me lerne what

Phlyctenæ are,

John Feilde,

Actius in his, xij. booke

and



and .63. chapter sayth that they are pustules compynge of sharpe coller; lyke to the blestes whiche cometh of scaldynge water, and, byng no behement dolour or payne, whiche beinge broken ther floweth oute a yeloushe humour, continuyng into the thirde or sometyme fourth daye.

John Yates. And what doth theis kinde of pustules differ from those whiche are called Epiniſtides?

Tho. Gale. Very much. For epinyctides be the mooste yll and malignant kynde of pustules. be swarte, and leady in coloure wyth greate and behement inflammation abought them, and theis beinge opened ther is founde a stympe exulceration in them. this tumour is neuer greater then a beane; and is called Epinyctis because comonlye they sprynge in the nyght season, and then mooste molesteth the pacient. The Arabians call this tumour *essare*, or *sairs*. and Plynie nameth it *Pustula lyuens*.

John Yates. There yet remaineth those tumours whiche the Grecians doe call *Hidroa* and the Latinistes *Sudamina*.

John Feild. Auicene nameth them *planta noctis* and Rasis *Alhasaphum*, Theis are certayne colericke pustules

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pustule coming of muche and abundant sweete  
whiche through the sharpnes therof doe craspe-  
rate and vlcerate the ikyne: and thus haue you  
lerned the most famous and notable collozicke  
tumors wherfoze we wyll nowe conuerte oure  
talke to suche as are phlegmatike.

John Yates. You do meane suche as are  
referryd to Oedema do you not?

Tho. Gale. Yes verely and they be called  
by their names. Atheroma, Steatoma, Melice-  
ris, Hydrocele, Ascites, Leucophlegmatia, cha-  
ras, Bronchocele, and Hydrocephalon: and as  
touchynge Oedema it is thus desygned. Oedema  
is a tumour softe, lose, and with out dolour or  
grese, springynge of sleume. and it is deuyded  
into Oedema that is a deseace, and into that  
whiche is symptoma or accident. of this Galen  
maketh mention in the. xiiij. boke. iij. chap. of  
his therapeutike methode. the trew Oedema  
is that whiche folysly the Barbarous Cirur-  
gians call vndimia.

John Yates. I remembre Guido nameth  
it both vndimia and also ydemea, and cimia:  
but let that passe. I pray you set out those thre  
famous apostemes flegmatike whiche you call  
Atheroma, Steatoma, and meliciris.

John Feilde. This aposteme called in  
Latyne

**Latine** abscessus and of Haliabbas, Sela, of Auicenne Nodi, haue diuers names after that thynge whiche is in euery of them conteyned. For **Atheroma** whiche is a tumour of like colour on all partes and with out payne and dolour, conteyneth in the neruous coates a thyme humour and lyke a pulstesse in substance. and somtyme there is founde in it heres, skales like bones, & hard thynge as they were stones. and **Steatoma** that is to saye adipinus nodus, or a fattye knote or a tumour, is an augmentation of fatnes againste nature gathered in some parte of the bodye. **Meliceris** or **Nodus mellæus**, is a rounde tumour harde and boyde of grese in whiche the neruous coates do conteyne an humour lyke in substance to honye. and all theis thj. effectes are first small and lytle. and so by lytle and litle augmente and ware. and are conteyned wyth in there severall sylmes or coates.

John Yates.      What desygne you hydrocele to be?

Tho. Gale.      **Hydrocele** is that whiche in Latine is called hernia aquosa or humoralis, and is a tumour springynge of a watrye humour gathered in the purse of the testicles.

John Yates.      And what is ascites?

John Feilde.      It is one kynde of the dropsie. and this tumour is when that a serose humour  
is a

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is conteyned betwixt the inwarde coate of abdomen and the intestines. This coate is called peritonæum.

John Yates. Leucophlegmatia soloweth next.

John Feild. It is also named Anasarca and hypostarca and is an inequall tumour going through the hole body. this may in my conceyte be aptlye termed an vniuersall œdema of all the bodye, as touchynge cherades we haue spoken amonge sanguine tumours.

John Yates. There yet remayneth two tumours Bronchocele, and hydrocephalon.

Thomas Gale. Bronchocele is a tumour in the throte called also Bocium, & it is a greate and rounde swellynge of the necke betwixt the skynne and aspera arteria, in whiche is conteyned some tyme, fleshe, some time like hony, fatnes, or a pulstesse. and sometyme sayth Celsus ther are founde hears mixyd with bones also Hydrocephalon is a watry tumour ingendred for the moze part in the heades of children, or els it come of grosse blode collected in anye parte of the heade, ther be. iij. kyndes of this tumour. one whan the humoz is betwixt pia mater and the bzaine. the seconde whan the humoz is collected betwixte the coates and the bones:  
the. iij.



the. It is betwixt pericranium & the bone, the last is betwixt the skynne & the bone. & thus we haue set out the most notable kindes of flegmatike tumours.

John Yates.                    Seinge that you haue synghed thre kyndes of tumours sanguine coloricke and flegmatike, nowe I pray you let vspeke of melancholicke in like sorte.

John Feilde.                    Unto Scirrhus are referred. Cancer, Elephantiasis, Satirasmus Psora lepra, Enchimoma, melasma, varices, sarcoccele, Polypus Verruce, acrochordines, myrmecia, & suche lyke. and firste we will take oure begynnyng with Scirrhus, you shal note that ther are recomyd of Galen. ij. kyndes of Scirrhus. one that is exquisite. the other not exquisite. The exquisite Scirrhus is desyned to be an harde tumour against nature, with out dolour or selyng and is incurable. The second kynde of Scirrhus is also a tumour against nature harde, but not al together insensible and therfore curable. although it be not wyth out difficultie.

John Yates.                    Nowe seying I haue lerned what Scirrhus is and also howe manye they are, I praye you procede to Cancer.

Tho.

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Tho. Gale. **Cancer** called of the grecians Carcinoma, and Carcinos, is an unequal tumour against nature, horrible to beholde, of swartish colour and with great payne. It is called cancer of fygure and similitude it hath wyth the sea crabbe. for like as in that, the feete are on bothe sydes of it : so in this tumour the vaines beyng fylled wyth a grosse melancholike humour, they are swolne and discended like as it were the fet of a crabbe or this tumour maye otherwyse be called cancer because it dothe so inseberablye cleave to the place where as it once is fyrmely fyred, and there be twoo kyndes of Cancer. one that is wyth vlceration and is called Cancer Vlceratus, an other that is withoute vlceration and is named Cancer Occultus.

John Yates. **What is Elephantiasis.**

John Feilde. **It is an vniuersall Cancer of the body, and is that which the latter wryters of the Arabians name Lepra, & S. Lazarus sycknes :** it taketh name of the beaste called an Elephant because of the greatnes of the affected length and roughnes of the skynne . It is also named Leontiasis because of the lose & rugose tumour of the skynne. This sycknes is terrible, contagious and in the number of those infirmities placed wythch are contagious.

Tho. Gale. **And when thys tumour is but**

yet in the begynninge. it is not called Elephantiasis but Satyriasmis, takynge that appellation of the satyres whome the Poetes describ'd to be deformed and monstrous.

John Yates. Seynge that Elephantiasis is not lepra Grecorum, I pray you; shewe me the difference.

John Feilde, Galen in his booke of definitions doth define it in this sorte. lepra is mutation of the skynne into an habite against nature, wyth asperitie and ychyng, dolour and scales and occupieth diuers partes of the body. and there is no smal affinitie betwixte lepra and scabies: both being affections of the skynne, both springynge of melanckolicke Iuse. and they differ in figure. for lepra occupieth and deuoureth depely the skynne in rounde figure, and casteth scales like fishe: and scabies called also psora infestyth rather the vpper parte of the skynne and is diuersly figured.

John Yates. Enchymoma foloweth next, and melasma.

Tho. Gale. Galen in his booke de tumoribus præter naturam. 10. cap. saith that they are tumours happenyng to olde men throughe the contusion of the vaynes: wherby the bloode flowe out of the coates of the vaynes. of theis some be blacke, some betwixte blacke and redde

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In colour. & they come of small & light occasions  
John Yates. The next tumours are va-

rices in greke called Cirfous which I take to be  
þ swelling of the baines through to great flure  
of grose & melancholike blod. And I haue most  
comonly sene them in the shankes and testicles.  
John Feilde. And those be the proper

places for this tumour: lyke as the two tumours  
nexte folowynge sarcocele and Polypus haue  
ther peculier partes which they doe infest, as  
sarcocele is a fleshye tumour growynge in the  
testicles, and is called in Latine hernia carnofa:  
the other is a fleshyebranche springynge in the  
nostrilles, and letteth the operation of the  
same. and it taketh name of a fleshe called Po-  
lypus. for lyke as that fishe hath many legges,  
so also hath this tumour manye rootes wherby  
it cleueth and groweth to the nostrilles.

Tho. Gale. It is right so, and verruca  
whiche is nexte in order, is a certayne tumour  
apperinge in the vppermost parte of the skynne  
it is named with vs a warte, of this sozte be  
acrochordones, and myrmecia. Acrochordon  
is a rounde warte hangyng as it ware by a  
threde and therof taketh name. and is called in  
Latyne verruca pensilis. and myrmecia is also  
a kynde of wartes whyche groweth deper and  
is hard and fixed to the skynne, narowe aboue,  
and



and brode beneth, prouokynge dolour and paine  
and is blacke in colour. and thus haue we fi-  
nished and declared vnto you all the notable tu-  
mours whiche are referred to the. iij. simple  
Phlegmone, Erysipelas, Oedema, and Scirrhus.

John Yates. **¶** Yet amonge all theis **I**  
here you make no mention of morbus, whiche  
**I** thyncke is to be numbred amonge tumours  
against nature?

John Feild. **I** do not well vnderstande  
your meanyng, for manye a tumour is called  
morbus. for morbus is a Latine worde, and all  
sycknes and infirmities be called morbi.

Iohn Yates. **¶** Ya but **I** meane that scabbe  
whiche the common Chirurgians calleth the  
morbus, and the morbus cause, and the better  
lerned nameth it morbus gallici

Tho. Gale. **I**t is a great thyng to be  
frayned by in ignoraunce or Barbarous doc-  
trine at the first, for euer after do what you can  
they will haue some tast therof, as right excel-  
lently the Poet e Horatius said.

Quo semel imbuta recens seruabit odorem.

Testa diu &c.

Whiche is as muche in effecte to be vttered  
in our vsuall language as

G.ij.

Vwith

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**V**With vvhath thou first filste thy vessell.

Of the same longe time it vvyll smell.

And this may right well be verifed wyth those of our tyme; one rude Emperike called it the morbus and a numbze foloweth hym in his folly, and an other because he wolde seme connyngcr then the rest, wyth as muche ignozance nameth it morbus Gallici bzekynge the olde Physicians head, and yet wil not, or can not gyue hym a plaster. But if you will vse that vsuall name you might haue named is morbus Gallicus, or Lues venerea, and so haue obserued congruittie in spekyng. but as touchyng the names of that contagious infirmitie, which is vsuallly named morbus gallicus: in my opinion they all doe nothyng expresse the nature of the sycknes. and lyke as the authoꝝ, whiche wryght of it varieth in the names: so do they both in knowyng the disseece, and cure of the same.

John Yates.      **W**hat then shall I properly call it?

John Feild.      **T**hat same that Maister Doctor Cunyngham hath inuented a similitudine cum chameleonte bestiola. **W**hat is he calleth it Chameleontiasis. the reasons hereof, the definition, cause, signes, prognostications, & newe kynde of curation, he hath expressed in a booke

booke therof wytten, whiche I trust he wyll hereafter publishe.

John Yates. And dothe he not numbre chameleontiasis amonge tumours against nature?

Tho. Gale. Nothyng lesse, for he accompteth all those tumours, swellyng, knottes, blcers, and suche like infesting the body of man; but as accidents, and no parte of the infirmitie, neyther laboureth he so muche in theis as in expellyng the sickness whiche byngeth forth theis accidentes. for theis are to be remoued with out difficultie or great trauayle.

John Yates. I iudge his newe inuented way of curation to be extreme and dangerous to the pacient, for both the fumes, vnguents, and strayte order of diet with the wood, are wel knowen to be dangerous, and yet many tymes doeth not that whiche they promise. but yet yf his way be perfite it is the more to be likyd and he woorthy prayse,

John Feild. His waye is voyde of danger, easie to the pacient, exacte also and perfite.

John Yates. Seinge then that Chamæleontiasis vulgarlye termed morbus gallicus is not to be numbred amonge tumours against nature I pray you procede to the other parte of your diuision, for I remembre that you sayde

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ther ware. iij. kyndes of tumours, the firste you called humoralis because it doth sprynge of humours. the second ventosus, for that it is ingendryd of spirites. The third you termyd. tumour varius, because they haue mixyd causis. somtyme of humours and spirites myxyd, and somtyme of other causes. Ther for I pray you now let me lerne how many tumours are referyd to ventosus tumour.

Tho. Gale,                    The most famous are two.  
Tympanites and priapismus.

John Yates.                    What is tympanites?

*microscopio*  
Tho. Gale.                    That whiche Hippocrates nameth a dyve dropfic. and is a tumour sprynge of wyndye spirites, collected betwixt peritoneum and the intestines. and if you smite the body of the patient verid wyth this tumour it will gyue forth a sounde lyke to the tympanie and hereof it firste toke name.

John Yates.                    And what tumour is that whiche is callyd Priapismus?

John Feilde,                    Priapismus is a tumour of the yarde, wherby it is desseyd out in length and bryeth throught vaporous spirites fylling the nerue called neruus cauernosus constituens colis substantiam.

John Yates.                    There yet remayneth to  
speke



to speke of those tumours which you terme tumores varios.

Tho. Gale. Ther doe so as you saye. and theis be the notablest of those tumours. vitiligo, exanthemata, parotides, mentagra, Epiplocele, Enteroccele, Enteroëpiplocele, Bubonoccele, exomphalos, Arthritis, podagra. Chiragra.

John Yates. What call you vitiligo.

John Feild. If you will generallye take it, it signifyeth a foulnes and staynyng of the skynne, coming of the yl disposition of the parte, whiche can not make good assimulation of the nourishment. and ther be two kyndes of this tumour, the one named in greke Leuca of the Arabians Albaras, and in Latine vitiligo alba whiche is a mutation of the skynne in to more whightnes. the other is named alphas, and of Auicenne morphca, and we vsuallye cal it the morphew, and ther are two kyndes of morphew, the one whight called of Celsus Leuca Alphas, the other blacke. and he termeth it mela. and alphas, is deriuyd of this Greke verbe Alphenein, whiche signifyeth to alter or change. and so doth the morphew alter & change the colour of the skynne.

John Yates. And what tumours are those whiche the grekes do cal exanthemata?

G.iiij.

Tho.

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The Gale. They be pustules and tumours breaking out of the skinne, bringing with them feuers and manye other accidentes. And there are two sortes of them: one hygher springing of thinne and cholorique bloode, the other broader and cometh of melancholike and grosse blode. the fyrrst kynde we call the small pockes, in Latine Morbilli, the other the measselles, & Variolę in Latyne.

John Yates.

Parotides folowethe nexte in order.

Io. Feilde.

Parotides be inflammations whych happen to the karnelles that are behynd the eares. And they springe sometime of sincere bloode, sometyme of Scume, sometyme of chol-ler, and sometyme of melancholie. And herein note the prouidence of nature. For he hath made the rare and lose partes called karnelles to be as emunctories for the noble partes. As the karnelles behynde the eares, serue to the brayne. Under the armpittes seruyng to the spirituall members. And the karnelles in the gynes doth receyue the superfluities that cometh from the liuer, whan as it doth exonerate and purge it selfe, and this is mooste manifest in pestilentiall constitutions in whyche theys noble members thurst and expell the venome to there purgien places.

John

John Yates. As for Mentagra you neede not to speake of, for I knowe ryght well, it is no other thynge then Morbus gallicus, or Chameleontiasis, as the booke bearynge the name of Mentagra doth testifyc.

Tho. Gale. And yet bothe you and the authour of that booke doe herein mysse the quisthynge, as suer as you make your selfe of thys. For thys tumour whych Plinius calleth Mentagra, & impetigo in Greeke Leichin sprange first amōg the Italians in the time of Tiberius and is a defoꝛmitie of the skynne beginnyng for the moze parte at the chynne and wyll spedelye turne into leprye and casse of skales lyke fythe. And Galen wytnesse in the v. boke & v. Chap. Secundum loca. That impetigo wyl turne into Lepꝛam. Therefore what difference is betwixt Mentagra and Chameleontiasis it is easely conceyued, the one hauing Causam occultam as I may terme it, and the other manifestam.

John Yates. And what Judge you epiplocele to be.

John Feild. I wyl not onelye speake of that, but also of thother kindes of hernia, which soloweth nexte. And fyꝛste you must note that epiplocele is a Greeke woꝛde compounde of epepleon

## An Institution

epiploon whiche the latines call Omentum and we name it the caule, and cele which signifieth ramex or hernia. So that epiplocele is a tumour comyng whan as omentum falleth in to the purse of the testicles. And by the lyke reason Enteroccele taketh name, when as the intestines falleth into the foresayde place. And Enteroepiplocele foloweth whan as bothe Omentum and the intestines fall in scrotum, or purse of the testicles. Furthermoze Bubonoccele is a tumour called in latyne inguinis ramex and happeth whan as Peritonæum is ruptured or wounded by the flankes. Exomphalos is a tumour pertainyng to the ouertwart muscules of abdomen, which being relaxed ther foloweth a stertryng or emynency of the navel.

Tho. Gale. By by other Pates doth the redierly conceyue the differences of these kynde of Hernia, for that he hath a peculer waye of curyng some of them, especiallye of Enteroccele or Hernia intestinalis, as Guido tearmeth it wherefoze we wyl no lenger stande in vttering the differences of them, but procede to arthritus Podagra & Chiragra. For I thynke the days wyl scarslye suffyce to declare, that whyche yet remayneth, and therefore as touchyng Arthritis you shall note and consider that it  
is a



## of a Chirurgian.

is a tumour commyng of the fluxe of humours into the Joyntes; and is named in Latyne morbus articularis . And so is thys tumour common to all the Joyntes of the bodge except it be the handes and the feete.

John Feilde.           Pea soz yf thys fluxe happeneth to the handes, it is named Chiragra. And yf to the feete, then it is called properly of the place, Podagra.

John Yates.           Theys dyseases of the Joyntes be greuous and paynefull, haue they no other cause but the flux of humours?

Tho. Gale.           The fluxe of humours is but the interne oꝛ antecedente cause, whyche commeth of the pꝛimatyue , but it is no part of our myndes to sette out eyther the causes sygnes, oꝛ curation, of tumours, seyng that wee haue done that in oure booke of the methodicall cure of tumours agaynst nature.

John Yates.           Seyng that you haue nowe spoken of all the notable and famous tumours agaynst nature , I praye you turne your talke to woundes, whyche Auicenne and those that folow him calleth Plaga.

John Feilde.           Besoze we enter further herein to sette oute the differences of woundes , it is conuenente to knowe what a  
wounde

## An Institution

Wounde is. and the mosse parte of wryters doe agree that a wounde is the solution of continuitie newly made in the partes of the bodye without putrifaction or matter.

Tho. Gale.        Yea for whan as putrefaction or matter both folowe, then it leuyth the name of a wounde and is called an vlcer.

John Yates.        And maye a wounde degenerate into an vlcer?

Tho. Gale.        Yea for sothe, and so dothe mooste partes of woundes especiallye if they be greate and in suche partes as may not be cured wyth balmes.

John Yates.        And howe many differences be ther of woundes?

John Feild.        Many, but the chiefe & pyncepal and that also are necessarie, are numbred to be thzee, and we wyll shewe you wherof the differences sprynge.

John Yates.        Doe you so.

Thomas Gale.        Guido and other famous wryters of his tyme, taketh the difference of woundes of thzee thynges. The firste is taken of the nature of the parte, in which the wounde is made. The seconde difference spryngeth of the substance or essence of the solution of continuitie. The thirde difference spryngeth of the difference of the diuision, or solution of continuitie.

John

John Yates. And howe are the woundes called. those difference cometh of the nature of the parte in whiche that wounde is.

John Feild. It is called a wounde in the similar parte, and a wounde in the instrumentall parte.

John Yates. When to knowe theis woundes exactly it doth behoue to knowe theis partes of the body whyche you called similar, and instrumentall.

Tho. Gale. It doeth right so. and it is called a similar parte because it is simple and may be deuided in to like partes. and that also whiche is required to the constitution of the organicke or instrumentall partes. Suche partes of the bodye are fleshe, fatnes, arterye bayne nerue, tendon, ligament, bone, and such like, & those be named instrumentall partes, whiche are made of theis simple or similar partes. And the instrumentall partes are the heade, eye, nose, tongue, harte, lyuer, longues, armes, feets, and a greate numbze of suche lyke, and euery of theis partes haue ther severall vse and office, as moze largelye appeareth in the booke of Galen intituled de vsu p rtium.

John Yates. And howe manye sondze woundes are ther in the similar partes.

John Feild. Ther be thzee, whiche are taken

## An Institution

taken of the substance of the simpler partes. For it maye be in the simpler parte whyche is softe as woundes made in the fleshe, and fattenes, or elles in the harde symiler parte, as woundes in the bones, or fynally it maye happen to the meane simpler parte, whyche is neyther harde nor yet softe, suche be those woundes in the baynes arteries nerays tendons & ligamentes. John Yates. And what difference is there of the woundes in the organike or instrumentall partes?

Tho. Gale, There is a threefoulde difference of those woundes accoꝝdyng to the parte affected. For eyther the wonnde is made in the principall partes, as in the harte, lyuer, or byane: or els in those partes whych serue theis principall partes, as woundes in Aspera arteria, the throte, and bladder. Or it is in the organike partes which are not seruisable, to anye of the principall, as woundes happenynge in the nose, eye, eare, hand, foote, and such like.

John Yates. When there be syre differences of woundes taken of the nature of the parte, thzee in the simpler, and thzee lyke wyse in the instrumentall partes. Nowe lette me vnderstande the difference of woundes taken of the essence of the solution of continuitie.

John Feilde. There is a twosoulde difference

rance



rence. for eyther it is a simple wounde, or elles it is a compounde wounde.

John Yates. **W**hat is a simple wounde?

John Feilde. A simple wounde is solution of continuitie, newlye made beyng made of accidentes or other affectes wyth it complicated and ioyned.

John Yates. **A**nd what is a compounde wounde?

Tho. Gale. **T**he contrarye to a simple wounde. For it is solution of continuitie havinge one or more affectes and accidentes complicated and ioyned with it.

John Yates. **Y**ou haue nowe showed two kyndes of woundes the one taken of the nature of the wounded parte, the other of the essence of the solution of continuitie, there yet remaineth to set oute, such as springe of the proper difference of solution of continuitie.

Tho. Gale. **W**here doth so as you saye. And the proper differences are taken of twoo thynges. What is to weete of the quantity and of the figure?

John Yates. **A**nd howe be the woundes named, whyche haue there difference of quantitye.

Tho. Gale. **T**hey are called by these names, a great or litle wounde; a long or shorte wounde

## An institution.

**wounde** : a bꝛode oꝛ narrowe wounde , a deepe oꝛ shalowe wounde ; and an equall oꝛ els an inequall wounde.

**John Yates.** And how be those woundes named whiche are taken of the figure of the wounde?

**John Feilde.** They be thus termed. a right wounde an obliquike oꝛ croked wounde, and a retoꝛte wounde. There are besides theis three pꝛincipall differences of woundes ; other woundes , althoughe they be not pꝛoper . as a wounde disrupted oꝛ bꝛoken, a wounde whiche is cutte, a wounde partlye bꝛoken , and partlye cutte; also, a wounde in the begynnyng, middes oꝛ ende of a muscle , and suche like , but theis differences alreedye numbꝛed shall suffice , as touchynge the Institution of a Chirurgian in this parte.

**John Yates.** I suppose no lesse , but what vtillitie springeth by knowing theis differences of woundes?

**Tho. Gale.** Right great , foꝛ you shall not rightlye and methodicallye cure them, excepte you knowe ther differences. Foꝛ of them is taken the pꝛognostications , the intentions curatiue, the inuention of medicines, and manner of curation. foꝛ you wyll not a like pꝛogno-  
sticate lyfe & death to the patientes , of a simple  
and

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# AN EXCELLENT TABLE DECLARING the differences of vvoundes.

<p>The principal difference of vvoundes are taken of thre things: that is to lay.</p>	<p>1. of the nature of the parte in vvhiche the vvounde is made: as in.</p>	<p>Similar part, of vvhich ther are iij. differences. for it is ether in</p>	1. Soft parte as in	{ fleshe fatnes.	}		
			2. Harde partie. as in	{ bones Ioyntes vaynes	}		
			3. Neither softe, nor harde, as in	{ Arteries Neruyes. tendons ligamentes.	}		
	<p>2. of the essence of solution of contjnitie.</p>	<p>Instrumental part. so is it eyther in the</p>	<p>1. Principal parte. as in the</p>	1. Principal parte. as in the	{ Harte liuer brayne.	}	
				<p>Simple vvonde.</p>	2. Seruing the principal partes as in	{ Aspera arteria throthe Bladder	}
					<p>Compounde</p>	3. Not seruing the principal partes.	{ Nose Eye. Hande Fotte. &c.
		<p>Quantitie and the vvounde is called.</p>	<p>a great or litle a long or short a brode or narrowv. a deape or sholovv.</p>	<p>Vvounde.</p>		}	
							<p>Figure as</p>
		a croked or oblique	a retorte	}			

Place this table after .48. leauc. of the Institution of a Chirurgian.

Microscopic  
plants

algae  
fungi  
bacteria

plants  
animals

minerals  
water

plants  
animals

algae  
fungi  
bacteria

plants  
animals

minerals  
water

plants  
animals

algae  
fungi  
bacteria

plants  
animals

minerals  
water

plants  
animals

algae  
fungi  
bacteria

plants  
animals

minerals  
water

and wounde made in the fleshe, and of a greate wounde made in the ventricules of the bryayne.

John Yates. That is verely so, for the one is with out perill and danger, and the other cuer mortall and deadlye. Althoughe Galen affirmeth that his maister Pelops yet beyuge a lyue) he saue a younge man wounded in one of the former ventricles of the braine, and that he was restozed to helthe.

John Feild. In dede those woundes for the moze parte are deadlye. and wher as Galen in his. viij. booke de vsu partium, reheriseth that hystorie, he maketh it miraculons, and that the yonge man came to helth, rather by the goodnes of God then helpe of art. But let vs restozne from whense we are digressed. A grene and shalow wounde voyde of accidentes, haue not the same curatiue intentions, that a deape and holowe wounde hath, with whiche is also annexed inflammation, flux, dolour, and payne.

John Yates. That is moze clearer then sonne at myd day, as the sayng goeth.

Tho. Gale. And touchinge the inuention of medicynes howe saue you, wyll you inuent like for woundes in the nerues and ligamentes, that you wyll for those in the fleshe: or in woundes of the bryayne, that you wyll in woundes of the handes?

H. i.

John

## An Institution.

John Yates. No verelye, nor I thynke none so rude that will so offende.

John Feilde. I pray God ther be not. but to the right vse of medicines taken of y<sup>e</sup> difference of woundes, wolde you in a wounde in whiche is inflammation, and deperdition and lesse of fleshe, aplye incarnatiues to cease inflammation or contrarpe wyse?

John Yates. What ware a pointe of extreme demency and madnes.

Tho. Gale. Well then this last vtilitie springing of the difference of woundes sheweth you howe to aply your medicynes, and whan also, whiche must be first, and whiche nexte.

John Yates. No man can that denye. Wherefore seinge, that we haue passed ouer the differences of woundes, it foloweth nexte in order that we doe procede to blcers.

John Feilde. And that you may the better vnderstande those thynges whiche hereafter shall folowe, it is requisite to lerne firste what an blcer is.

John Yates. Then I praye you define what an blcer is.

John Feild. An blcer is defnyed to be the solution of vnitie in the fleshye partes, hauyng more dispositions lettynge and hindzinge the adglutination of the same, of whiche cometh  
matter

matter, and other lyke fylthines.

Tho. Gale. You may also bryeflye define it, folowynge Auicenn, in this maner. an vlcer is the solution of continuittie made in the fleshe, conteynyng matter and pus.

John Yates. And whereof are vlcers ingendred?

Tho. Gale. They spring of woundes yf handled, of pustules, and apostumes comynge to vlceration.

John Yates. And doeth vlcers spring of woundes?

John Feild. They doe: for whan as a wounde doeth ons conteyne matter, it is no moze called a wounde, but an vlcer.

John Yates. How many kynde of vlcers be they?

Thomas Gale. Ther be two kyndes, a simple vlcer, and a compound.

John Yates. And what is a simple vlcer?

Tho. Gale. A simple vlcer is a solution of continuittie, wyth matter, boyde of accidents and complication wyth other affectes. and here you must note accoꝝdyng to our supposition, that whan I saye a simple vlcer, I meane not one simple infirmitie or sycknes: for I am not ignorant that euery vlcer doth consist of intemperatnes, solution of continuittie, and som-



## An Institution

tyne also of yll composition. And therfore whan I speke of a simple vlcere, I meane that whiche is opposite or contrary to that vlcere, whiche is complicated with many affectes.

John Yates. Then by youre wordes I gather, that a compounde vlcere is solution of continuitie in the fleshe hauynge matter, and diuers affectes with it ioyned. Nowe I praye you let me vnderstande howe many differencis there be of vlcers.

John Feilde, The most notable vlcers are.vj.in numbze.

John Yates. Whiche be they?

John Feilde. Their names in Latine be theis vlcus saniosum, virulentum, sordidum, cauermosum, putridum & corrodens. And we must by circunlocution make them playne vnto you, for the defecte of apte wordes in our language.

John Yates. And can theis haue no other names?

Tho. Gale. Yes forsoth.

John Yates. Howe many wayes?

Tho. Gale. Fyue principall wayes.

John Yates. Whiche are they?

Tho. Gale. Firste an vlcere may be named of humours, nexte of sanies or matter, then

then of accidentes, after of the sycknes, last, of similitude with some lyuinge thyng.

John Yates. **Whiche waye name you vlcers of humours?**

John Feild. **Those whiche sprynge of blode are called sanguine, of choller, cholozicke, of fleume flegmaticke, and of melancholie, melancholicke,**

John Yates. **And howe are they called whiche come of sanies oz matter.**

Tho. Gale. **You muste note that vlcers be named of sanies, foure sundry wayes.**

John Yates. **Howe so?**

Tho. Gale. **Because sanies is called by foure names,**

John Yates. **Whiche be they?**

Tho. Gale. **Sanies, pus, sozdicies, and virulentia, and hereof cometh that of sanies, the vlcer is named a sanious vlcer, of pus, a purulent vlcer, of sozdicies, a felthie vlcer, and of virulentia, the vlcer is named a virulent vlcer.**

John Yates. **Befoze you procede further here in, I praye you define me what sanies oz matter is.**

John Feild. **Sanies is a nozishment corrupte, whiche nature coulde not digeste, and note that ther is twoo kyndes of sanies, good and laudable, and also yll and nought.**

John Yates. What call you good matter  
oz sanies?

John Feild. It is called good whan as  
it is whight in colour, lyght and equall,  
woyde of stincke and horrible smell, and is also  
digested.

John Yates. And what define you yll  
matter oz sanies?

John Feilde. It is that whiche is contra-  
ry to the good. A corrupte nourishment in which  
the substance is inequall, indigested, yll smel-  
linge, and diuersly discolored.

John Yates. What is that you call pus,  
of whiche the vlcer is named purulent.

Tho. Gale. It is yll matter oz sanies co-  
mynge of nourishment and superfluites of the  
weke membre, whiche tendeth to corruption,  
throughe the naturall heate altered into an un-  
naturall state.

John Yates. I praye you let me learne  
what virus is.

Tho. Gale. It is subtile and thinne  
Sharpe sanies, ingendred of thinne watry hu-  
mours, whiche throughe the aboundaunce, the  
heate can not digest and overcome.

John Yates. Ther yet remayneth to  
speke of that kynde of sanies whiche you called  
sozdities.

John Feilde. It is grosse matter ingendred of the grosnes of humours.

John Yates. Well, now we retorne againe to the names and appellations of vlcers. Howe I praye you are vlcers called after accidentes, whiche the grekes cal Symptomata?

Tho. Gale. It is called of corrosion a corrodynge vlcer, in greke Phagedenicum, of putrifaction vlcus putridum, of dolour and payne, it is called vlcus dolorosum.

John Yates. And how is the vlcer called of sycknes.

John Feild. It is called in this maner of cancer a cancerous vlcer, so in like maner of fistula the vlcers is called fistulosum or vlcer fistulate.

John Yates. Seeing you are come to that talke of a fistula in knowledge of which, & also exacte curation you are not a litle commended; I pray you define what a fistula is.

John Feilde. It is an holow and depe vlcer hauynge a straight orifice. and the halownes of the same is harde, out of which many tymes floweth matter, & the fistula hath manye denominations accorvdyng to the place in which it is, so; whan it happeneth only in y<sup>e</sup> fleshe, it is  
 V. liij. called

## An Institution

called fistula carnofa, in the vaines venofa, in the arteries: arteriofa: in the neruys oz fenowes neruofa, in the cartilagies cartilaginofa in the mufcules mufculofa, in the bones offea, and alfo of teares and droppis whiche it putteth fourth, it is namyd fistula lachrimalis. fo in Ano it is called fistula Ani.

John Yates. Well nowe turne we againe to the laft parte of the deuffion and showe me howe vicers are called of fimilitude.

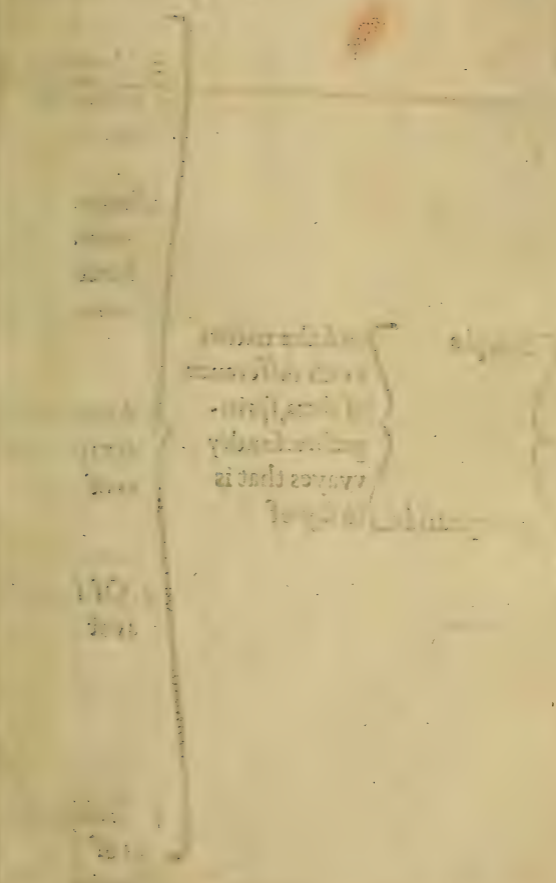
Tho. Gale. I will, the ante oz phifhmere in Latine formica crepeth and maketh holes. and of like fozte, the vicer whiche crepith and maketh manye holes in mans bodye, is hereof termed formicofu vlcus. and alfo of the hollow caues of the grounde called cauernæ; the hollow vicer is named cauernofum: and fo in like fozte of other thinges, fo: of the fimilitude the vicer taketh name.

John Yates. I here you not make anye mention of thofe famous and notable vicers called Teliphea and Chironia vlcera. neyther can they be comprehended vnder any of the. vij. principal kyndes of vicers.

Tho. Gale. Yes fo:foth, but Galen whō I folow, accompteth thofe differences of Teliphea and Chironia vlcera, fuperfluous, and be  
comprehen



# Map A

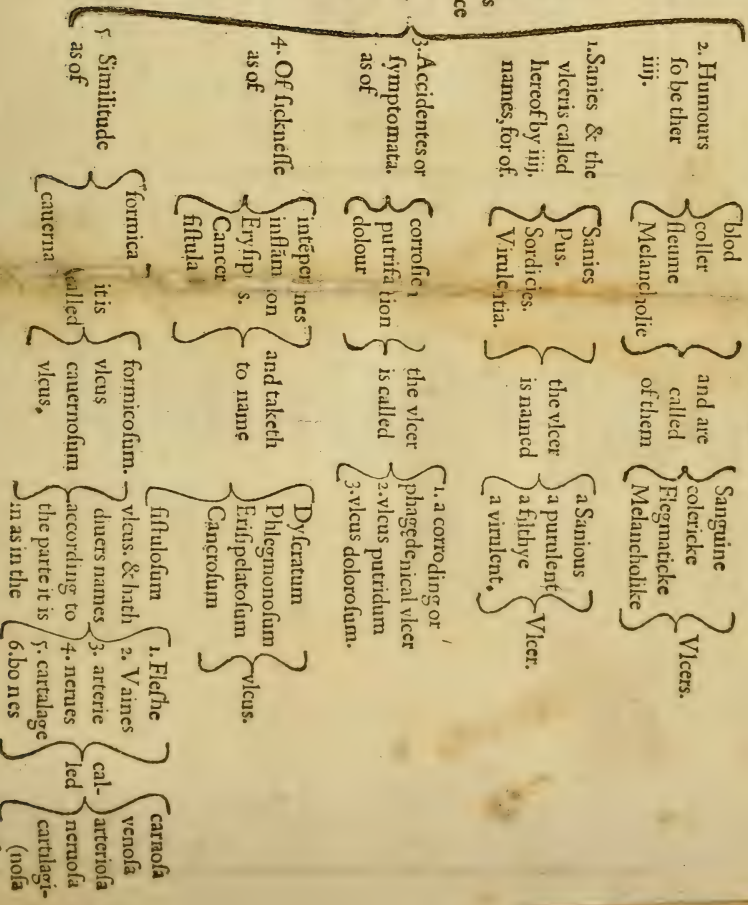




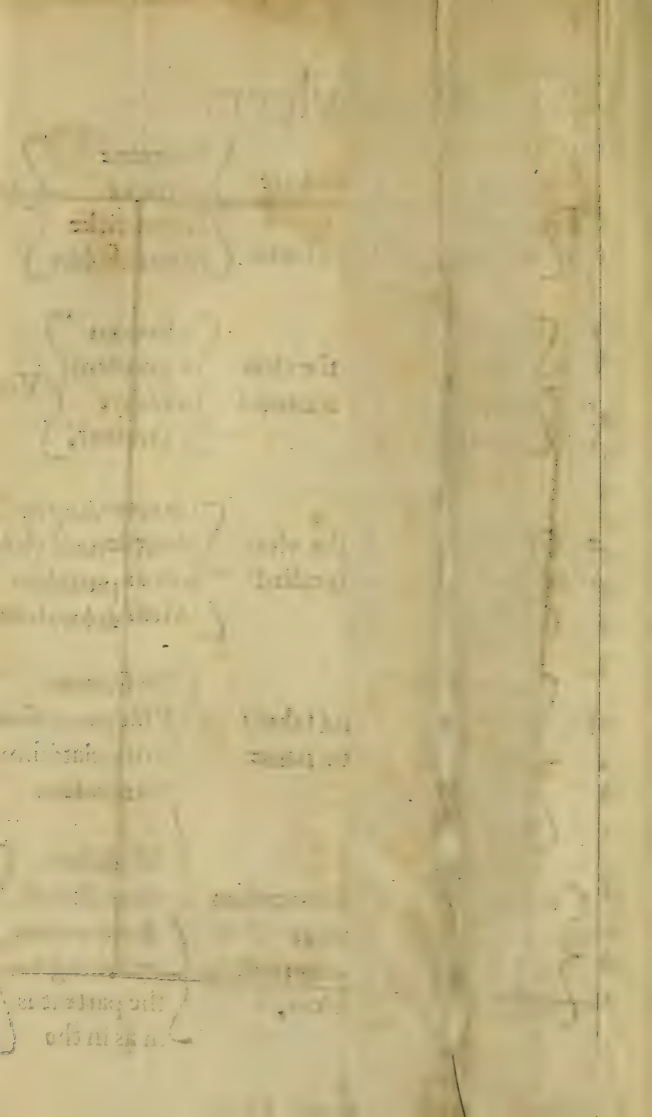
# A profitable Table of Vicers.

Every vicer is either.

Simple } and the names  
with difference  
of their, spring-  
geth. v. sondry  
ways that is  
compounde } to say of



Place this table in the Institution. fol. 41.



comprehendeth them vnder the name of phagedenicum, or corrodens vlcus. Therfoze we may aptly place them among corrodyng vlcers, whiche is the fyrte kynd of the notable vlcres befoze reherfed.

John Yates. And be all theis kyndes of vlcers of like facultie in curyng?

John Feild. No verely, for ther be some whiche are easelie cured, & other also whiche will hardlye or not with out great difficultie receiue curation.

John Yates. Whiche be those that wylly easelye be cured.?

John Feild. Such vlcers as happen in persons of good complexion, whose bodies are nourished with good blode, & haue no abundance of superfluous moistnes. for Auicene saith that in bodies of the beste complexion, the vlcers are moze spedely healed.

John Yates. Whiche vlcers are harde to be cured.?

Tho. Gale. All those vlcers whiche followeth after any sycknes.

John Yates. Therfoze shold those vlcers be so rebellious, and hard to receyue curation.?

Tho. Gale. Bycause nature doeth exonerat & vnburthen her selfe of the dregges and reliquies of yll, and vicious humours.

John



## An institution

John Yates. Are ther no other vlcers;  
but theis that be harde to cure?

John Feilde. Yes, and suche be all vlcers  
whiche happen to persons hauyng acciden-  
taly there bodyes most or dize.

John Yates. Gyue me an example of those  
bodies whiche accidentally are moyst.

Ihon Feilde. You nede no other example  
to set befoze youre eyes, then persons hauynge  
dzyppies, and women with childe. Where vlcers  
happen in such bodyes they, wil not cicatrize be-  
cause of aboundance of superfluous moysture.

John Yates. I thynke it so. But if that the  
greate moystnes, do let the vlcer to be cured: the  
in bodies that be dize, it soloweth the vlcers to  
be easelye healed. Howe happeneth it, therfoze  
that you affirme vlcers in dize bodyes to be  
harde of curation?

John Feild. And yet in theyse my wordes  
I do not committe anye errour. For I speake  
not simplye of all dize bodies; but of those that  
ware dize accidentally, suche be the bodyes of  
them that haue heticke feuers, and marasmus,  
In theis the vlcers, so; defecte of good bloode  
can not consolidate; but with greate diffi-  
cultye.

Tho. Gale. And you haue also the lyke  
example in olde men whose vlcers wyl hardly  
receyue

receyue cure for the defecte of good blood, they beinge not able, for the imbecillitie of naturall heate) to concocte and digest, ther meate.

John Yates. When by your wordes I do fynde; that in thzee sortes of people the vlcers will not wyth out difficultie be cured, that is to say in those, where vlcers soloweth greate sickness, and in bodyes whiche are accidentally moist, and those also whiche are likewise drie. Now before we fynishe oure talke of vlcers, I woulde learne of you what putrifaction, corrosion, and digestion is. the knowletge of theis is ryght profitable in vlcers.

John Ecilde. It is so, and note that, putrifaction accorดยnge to oure Authoꝝs Chirurgians, is defined to be a transmutation of the hole substance of the bodye or parte of the same, springynge of outwarde and vnnaturall heate: whiche beinge contrarype and deadlye enemy, to naturall heate, doeth corrupte, and destroye the same.

Tho. Gale. And corrosion is a consumption of the fleshe whiche cometh through sharpe humours, whiche resolueth consumeth & dryeth the substance of the noꝝished part: which being resolved the substance of the fleshe is diminished and vlceraed.

John Yates. Theis two, putrifaction and corrosion seameth to be as you say, although.

want

## An institution

want of naturall Philosophie I can not here in iudge, but it behoueth the lerner alwayes to beleue and credit the teacher; but what is digestion?

John Feild. Digestion is taken in two wayes, one waye it is taken for an orderly distribution of the worke of naturall heate made for the augmentation and nourishment of the partes. The other waye it is a disposition of naturall heate ordayned to the preperation of humours wherby the humours are made redie to be thrust oute by the vertue expulsive. and this last awaye is that whiche the Chirurgicalians ought to consider.

John Yates. Now you haue thus finished tumors against nature, woundes, and blcers, it is tyme to intreate of fractures. Wherefore I praye you let vnderstande what a fracture it.

Tho. Gale. A fracture called in Greeke Catagma is a solution of continuitie made in the bone. But the later grecians as Actius and Paulus nameth a fracture, the diuision of the bone or els rupturynge or bzeakyng of the same or any solution of the bone violentlye comyng of any outwarde cause.

John Feild. Pet Guido de Caulico and other of hys tyme desyneth a fracture to be solution of continuitie of the bone not comming of euery

of every cause, but onely when as it commeth of contusion, and thys difference he putteth, for that sayth he a bone broken and a bone cut may be knowen a sonder. For because a cut bone is not to be properly named a fracture, but rather a wounde in the bone.

John Yates. There is no greate repugnantie amonge them neyther let vs be curious aboute wordes, so the thyng whereof we in-  
treate maye be euident and plaine. Wherefore I praye you shewe me nowe how many kindes there be of fractures.

Tho. Gale, There be twoo kyndes of fractures. a simple fracture, and a compound.

John Yates. What is a simple fracture?

John Feilde. A simple fracture is solution or diuision of continuitie made in the bone without any other affecte ioyned with it.

John Yates, What is a compounde fracture?

John Feilde. It is also a solution of vnity made in the bone hauyng one or moze affectes to it connected and ioyned.

John Yates. How manye differences be there of fractures?

Tho. Gale. You must note that lyke as there be simple and compounde fractures, so in lyke maner there be differences of fractures  
both

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both symple and compounde. Wherefoze lette me knowe of whych fracture you woulde knowe the difference.

John Yates. I woulde ryght gladly vnderstand all the differences, although for want of knowledge I can not orderlye demaunde of you. Wherefoze, I praye you fyrst to begynne with the differencies of symple fractures, and then to the compounde.

Thomas Gale. That we wyll gladly, and fyrste it behoueth you to consider that there be manye and diuers kyndes of symple fractures. For some fractures are ouerthwart and diuides the bone in sonder and they are thzee, Caucedon Raphanidon, Sicyedon, that is to say the bones are broken like vnto the similitude of stalkes of herbes, radish, or cucumers. There are besides theis fissures or ryftes made in the bone longwyle called in Greeke Schidacidon. Also there is an other kynde of symple fractures whan as the bone is broken into manye small and lyttle peeces, and this is named Alphitidon. Theis be the principall differences of simple fractures.

John Yates. And what are the differences of compounde fractures?

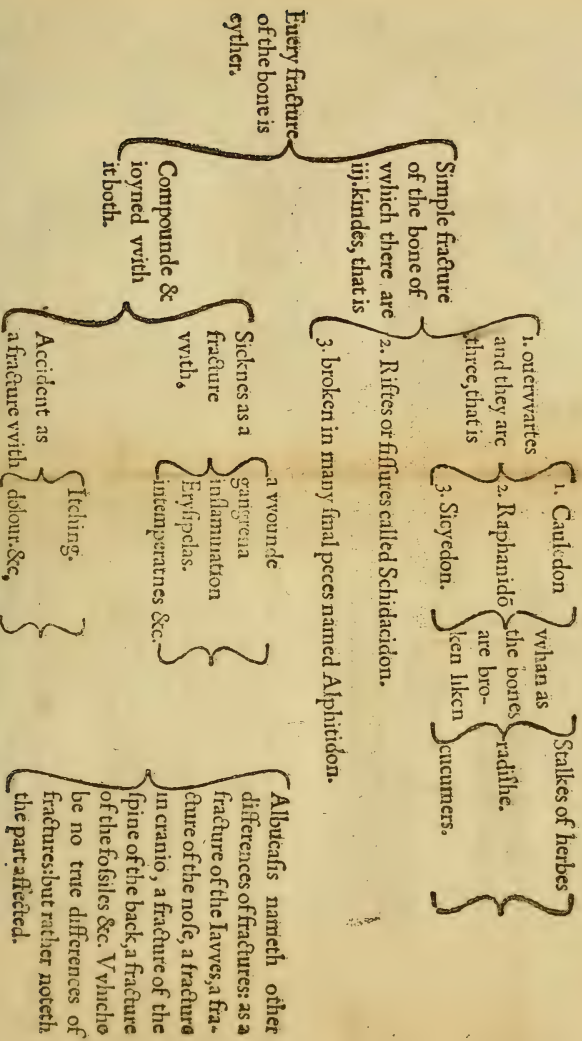
John Feilde. The chiefe and notable being accompanied with sycknes and accidents are theis. a fracture with a wounde, a fracture hauinge







# A table conteyning the differences of fractured bones



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hauinge w<sup>th</sup> hym ioyned gangrena, a fracture w<sup>th</sup> inflammation, a fracture w<sup>th</sup> dolour and payne, a fracture w<sup>th</sup> cōtusion, a fracture w<sup>th</sup> callus to muche increased and growne, a fracture w<sup>th</sup> to muche dryenes, and also hardnes of callus, and a fracture w<sup>th</sup> superfluous moisture of callus, and suche like.

John Yates. Are ther no other kyndes of fractures besides theis two simple and compounde?

Tho. Gale. There be no other proper kyndes, for of necessitie, it must be eyther simple or compounde, and Galen maketh but two kyndes of simple fractures, a fracture made secundum longitudinem, and a fracture made per transuersum. But Cornelius Celsus addeth the thirde difference to it: his wordes are theis lib. 8. cap. 7. omne os, modò rectum, vt lignum in longitudinem finditur, modò frangitur transuersum, interdum obliquum, &c. Whiche is as muche to saye, as euery bonè is fractured eyther in length as woode cleauen, eyther it is broken ouertwharte, and some tyme it is fractured oblique or crokid.

John Yates. Albucasis nameth other kindes as fracture in cranio, a fracture in the Falues, a fracture in the nose, a fracture of the spine of the backe, a fracture of the scullies, & so of other bones.

John



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so of other bones.

John Feild. He doth right so as you say, but in my opinion theis be no differences of fractures: but rather noteth the parte affected

Tho. Gale. What is mosse manyfest and hercof we haue spoken in oure Enchiridion of Chirurgery, moze at large, where we set oute the differences of fractures, and the exacte manner of curinge them. But becaase you may the suerer beare theis differences of fractures seuerer in memozye, behoulde this table which setteth out all the diuisions of them, and if you take paynes to comitte them to memozye, then you haue in effect the whole theoricke of solution of continuitie, made in the harder partes of mans bodye.

John Yates. I thanke you syz, and I will not omit the greate profit, whiche wyll folowe for the present payne. For the gaine wyll remayne, whan at the payne shalbe quite forgotten. Nowe for the tyme of the daye whiche yet remaigneth: finishe lurations, and what els you thynke conuenient, for the institution of a Chirurgian.

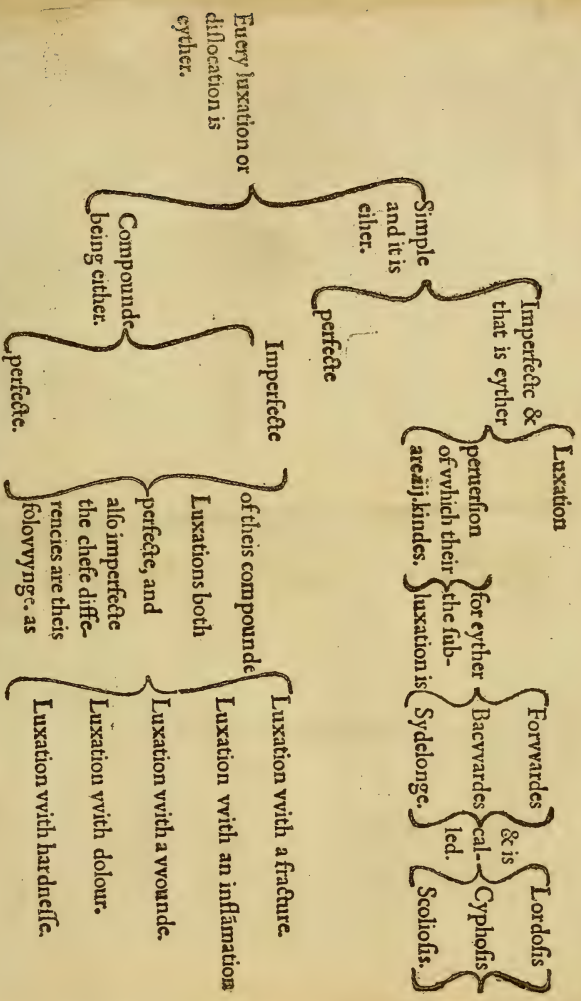
John Feilde. We wyll accomplishe your requeste, and first note that a luxation or dislocation (which the grecians also call exarthrema) is a displacynge of the ioynte, and mouyng of it  
out of

# Holden T.A.





# A Table of Luxations and dislocations.



Place this Table in the Institution of a Chirurgian. fol. 45.

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out of this natural seate into an other place un-  
accustomed wherby the voluntaris motion of  
the same is hindzed.

Tho. Gale. And this luration is eyther  
perfite as whan the bones are quite diuided, and  
put a sondze, or els it is an imperfecte luration,  
whan the Joint is but only wraisted, and not al-  
together dislocated, this the Grecians call pa-  
rarthrema.

John Yates. Howe many kyndes of lura-  
tions are ther?

John Feilde. There be twoo kyndes of  
lurations, a simple luration with whiche there  
is no other affecte soynd : and a compounde lu-  
ration hauynge one or moze effectes to it con-  
nected and complicated.

John Yates. What effectes be those whi-  
che are soynd with compounde lurations, or  
rather to speake properlye, what effectes doe  
make the luration compounde?

Tho. Gale. The most comon are theis,  
a luration with a fracture, a luration wyth  
Plegbmone, a luration with a wounde, a lura-  
tion with dolour, a luration with hardnes, a lu-  
ration with fluxe, and so in lyke sorte you maye  
numbze other effectes, as they are with the lu-  
ration connected.

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John Yates. You haue nowe fynished your talke touchynge the definitions and differences of tumours against nature, woundes, vlcers, fractures and last of luxations. & among the rest you make thzee of them, to be solutions of continuittie, that is to say, woundes, vlcers and fractures: I praye you aunswere me, be ther no moze kyndes of solution of continuittie then theis?

John Feild. Ther is no solution of continuittie: but is comprehended vnder one of theis thzee. as you maye perceyue by the differences of solution of vnitie, set out in the. iij. booke of Galens therapeutike methode.

John Yates. I praye you reberse these differencies.

John Feild. Ther is a solution of continuittie, left in the fleshye parte after a wounde called Thrauma. Ther is a solution called Helcos, wher as ther is an vlcer in the fleshe, there is solution of vnitie in the bone named catagma. also spasma is a solution of continuittie in the nerue by conuulsion or distension, Apospasma is lyke wyse in the lygaments. Rhegma is a rupture of the fleshe. There is also a solution of continuittie called contusion, in Grecke, Thlasma, and is properlye in the vesselles.

Theis

These are the principall kyndes of solution. But now we seinge we haue plainly made discourse of all suche syknes, as fall vnder that portion of the that curatine parte, which is called Chirurgie, whereby you are taught to apply contrarie remedies, for the expellynge of the soynamed greses: It is requisite to vnderstande the operations, whiche a Chirurgian muste vse in obteynnge his desired scope: I meane in restorynge helth to his patient.

John Yates. I praye you then let me lerne what those operations are.

John Feild. They in numbze thre. First to diuide or separate the continuitie. secondly, to vnite and ioyne together, that is diuided and seperated. and lasse of all to take awaye that is superfluous.

Tho. Gale. And we diuide the continuitie, by makynge incision, letynge of blood, and scarification: where as neade requireth. as also we vnite and ioyne together, that is denuded whan as we consolidate and conglutinate woundes, whan as we heale factured bones causynge callus to growe out the fracture, & whan we repose and put bones luxated and dislocated into the natyue and wounded seate. Last of all we doe take awaye, that whiche is

I. y. super

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superfluous when as we take away tumours  
against the nature, as ganglia, Cancers, nodos,  
strumas, and wartes called achrocordonas, also  
takynge the water oute of the bodies of those  
whiche haue a dropsie: or takynge away the sixte  
finger or to a of the hande or fote.

John Yates. All this I wyll kepe well in  
memoyre.

John Feild. The Chirurgian must also  
in theis his operations obserue sixe thynges  
p̄ncipally. First, that he doeth it safelye, and  
that wythout hurte and damage to the pacient.  
secondly, that he do not detracte tyme or let slepe  
good occasions offered in woꝝkyng, but with  
suche spede as arte wyll suffer, let hym finishe  
his cure. Therdly, that he woꝝke iently, cour-  
tyously, and wyth so lytle payne the pacient, as  
conueniently you may, and not roughly, but  
cherly, rudlye, and wythoute a comblenes.  
Forthly, that he, be as free from crafte and de-  
repte in all his woꝝkynges, as the Call is from  
the Weast. Fiftly, that he taketh no cure in  
the hande for lucre or gaynes sake only, but ra-  
ther for an honest and competent rewarde, with  
a godly affection, to doe his diligence. Laste of  
all, that he maketh no warrantysse of suche sick-  
nes, as are incurable, as to cure a Cancer not  
bicerate, or elephantiasis confirmyd: but cir-  
cumspectly



cumspectlye to consider what the effecte is, and promyse no moze then arte can perfozme: and you shall doe theis thynges muche the better, (yea wyth oute theis, you can not any thyng profit your pacient) yf you vnderstande the maner, and eracte wayes of stichynge woundes, of makynge tentes, splanes, stuphes, bolsters, and conuenient rollynge, wherfoze if the day will therto suffise, we wyll declare and make playne theis thynges vnto you, and so finishe our talke of the institution of a Chirurgian.

John Yates. I praye you let no tyme be herein lost, for lothe I ware to departe without the knowledge of them, and for that you first made mention of stichynge, I praye you first begynne wyth it.

Tho. Gale. Then you must well marke and diligently consyder, that ther are thre kyndes and maners of stichynge takynge names of ther effectes. The firste is called conglutinatiue or incarnatiue, the seconde is named compressiue, the thyrde is reseruatiue of theis, we wyll orderlye intreate, and first touchynge incarnatiue stichynge, note that the vse of it is in all grene and freshe woundes made in the fleshe, whose lypes or sydes can not be conserued and kepte to gether, onlye wyth rollinge and ligature,

Iohu



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John Yates. And maye not this kynde of Sticheynge be vsed also in olde woundes?

Tho. Gale. Yf you wyl vse it in olde woundes whose lippes are harde and thicke it behoueth you firste to make scarification of skyrne abought, and so let blood flowe oute, and then you may vse it. and note that ther are v. sund; y kyndes of Sticheynge incarnatiue.

John Yates. Whiche are they?

Tho. Gale. I wyl set them out vnto you.

The first kynde is done wyth an euen stronge and softe threid of sylke, makyng the first stiche in the myddes of the wounde, then the seconde stiche in the mydde space betwyrte the firste stiche and the one ende of the wounde, and the threide stiche shalbe lyke the seconde in the other syde of the wounde. And so euer betwyrte two stiches in the myddes, take an other vntyll the sydes of the wounde be aptlye and decentlye toynded together. And you must also take hede, that your stiches be not to thicke or thynne set. For yf they be to thicke, you shall as Celsus saythe, prouoke dolour and payne, and cause inflammation, and if they be to thynne and rare, then it can not conseyne the sydes of the wound to gether.

The seconde kynde of incarnatiue Sticheynge is vsed

is vsed in greate woundes of the theis and  
 Shoulders: and is in this maner, Joyne the  
 sydes of the woundes together, and marke  
 howe many stiches it requireth, and for euery  
 stiche you muste pꝛouise a nedle and a thzeid,  
 and put a nedle in the myddes of the wounde,  
 and wynde the thzeid rounde about the  
 nedle many and sondꝝ tymes, and the nedle  
 remayne styll in the wounde, vntyll the  
 consolidation of the same. You must in lyke  
 sorte doe wyth the other stiches, whyche  
 are to be made, accoꝝdyng to the quantitie  
 of the wounde. The theird kynde of incar-  
 native stichynge, is done wyth quylles oꝝ rol-  
 les made of stupes in the bygnes, and forme  
 of quilles, bringe wythed, and made euen  
 and smothe. And this waye of stichynge is  
 thus, You shall drawe the sydes of the wounde  
 to gether, puttynge your nedle and thzeid  
 throughe bothe sydes of the wounde, and a-  
 gayne put the nedle backe agayne throughe  
 the same hole, and so leaue a loupe of the thzeid  
 behinde, into whyche you shall put the one  
 ende of the quyle, then drawe strapte  
 bothe endes of the wounde to gether, and  
 fasten them to the other ende of the quyle,  
 and cut of the thzeide, and let the quyl-  
 les so remayne vntyll the wounde be  
 perfectly

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perfectlye healed. The fourth kynde is done by hookes, greate or lytle, accordyng to the bygnes of the wounde, & the hokes must be crooked and bowed at both endes. You shall faste an hoke on the one syde of the wounde, and drawe the other ende towarde thother syde, in whiche you shall fasten the other hooke. This kynde requyret no violence, but only serueth wheras the wounde wyl easelye come to gether.

The fyfte and laste kynde of stichyng is wyth clothes threcoznozed being of suche bygnes, as maye suffice for the hurte membre. Whiche kynde of stichyng is very conuenient in those woundes where as we wyl not haue the cicatrice to be seame, as in the face. and theis clothes muste be wette in some viscouse, and glutinous lymment and laye them to on eyther syde of the wounde, and whan they be dyled, you shall make youre stiches in the clothe conuenientlye, and aptlye, and so ioyne the sydes of the wounde together, and theis be the fyne kyndes of incarnatiue stichyng.

John Yates. Ther be twoo thynges touchyng theis stichynges that I muste require of you. The one is what maner a needle we muste vse in oure stichyng: the other wyth what thynges we shall make oure lymment whiche must be extended on the lymyng cloth bled in the fyfte kynde of incarnatiue stiching.

John

John Feilde. The needle muste be longe and smale, beinge thysquare, the eye holowed in, that the threid maye the easelyer folowe. to the whiche needle ther muste be a quille made holowe, called in latyne canulla, this serueth to holde the sydes of the wounde to gether stedfastlye whill you make your stichynges. as touching the matter wherof you shall make your liniment, it consisteth one myrthe, franckensence, sanguinis draconis, mastick, sarcacolle, pitch, myllouste, al theis, or parte of them, must be myxed wyth the whight of an egge, and so extended on the clothes.

John Yates. This I vnderstande ryght well: wherfoze procede to the seconde kynde of stichyng wyche you call compressiue.

Tho. Gale. That stichyng whiche we call compressiue vled to stave and stanche greate fluxe of blode, is in thys sozte. foulded in the sydes of the woundes, as the skynners vse in sowynge ther skynnes; and stich the, mouer castyng them. and we vse this also in woundes of the intestines, and panicles wounded. But this kynde of stichyng, in my opinion is not so good and safe, for that if one stiche bzeake all the other are losoned.

John Yates. When I praye you procede to the thyrde kynde of stichyng, called reseruatyue.

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tiue.

John Feilde.

This lasse kynde serueth onely to kepe the sydes of the wounde to gether vntyl it be made hole. and is in lyke foyme, as other comon stichynges, sauynge that the sides are not so strait vntwaine to gether, as in other woundes. and is right good in woundes ruptured and foyme, and whereas thynges are afterwarde to be taken out, and whan as the wounde must be purged, and this shall suffice touchynge the knowledge of stichyng. ther be other inuentions and wayes of stichyng, which are to be lerned rather be seinge the connyng Chirurgical woꝝke, then by many lynes set out in bookes.

John Yates.

Then I praye you procede to lymyentes and tentes.

John Feild.

Tentes, and lymyentes to be profitable, no man sene in Chirurgerie douteth. but at thys present, it shalbe sufficient to shewe whan, howe, and to what endes, they be vsed: and also of what matter they are made, and of ther diuers foymes.

John Yates.

I praye you vnto howe many endes doth it serue?

John Feild.

Vnto .viij. sondyꝝ vses.

John Yates.

Whiche are they?

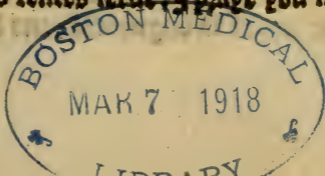
John Feild.

Firste we vse tentes to enlarge



large and ampliate a wounde, or to mundifye the same, and wheras matter and sanies is to be taken oute of deape woundes. Secondlye we are constrained to vse tentes in profounde and deape woundes, whiche of necessitie requyre a newe regendynge of fleshe. Thirdlye in woundes whyche through the ayre are altered, and therfoze are made sylthy and sanious, and require mundification. Forthlye we muste vse them in contused woundes. Fyftlye the vse of them is ryghte profitable in woundes, that hath inflammation or are any tumour agaynst nature ioyned wpth them. Sextly, in woundes whiche come of bytynge. For suche woundes are not spedelye to be conglutinated: but rather kepte open. for that (yf we beleue Cornelius Celsus) all bytynge dothe participate of venome; and therfoze that must be drawen oute, and not kepte in throughe to haue cicatrizinge of the wounde. Seuenthy, we occupye tentes and lnyementes in those woundes, in curynge of whyche we muste handle the bones. Last of all, we vse tentes in olde woundes whyche are digenerated into the nature of blcers.

John Yates. Seynge you haue shewed to what endes tentes serue: I praye you sette out



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out the matter and substance wherof they doe consiste.

Tho. Gale. For the better vnderstan-  
dyng hereof it behoueth to consider, for what  
cause and intention they are made, for some  
tyme they be vsed to cleanse and purge the  
wounde, and then they are made of softe and  
olde lynnynge clothe, some tyme they are vsed  
to kepe the wounde open and wyde, and then  
they are made of stupes cleane & well kempte,  
or els of cotton woll. And for that cause also  
ther are tentes made of siluer or copper, beinge  
made holowe, and put into the wounde, as for  
examples sake, in woundes of the nose, wherby  
he maye both aptly drawe in the ayer, and also  
the wounde be purged of suche fylthynges as  
groweth. Further more whan as we wyl am-  
pliate, and enlarge a wounde, than we make  
tentes of spongies, or the roote of the gentian.  
for theis suckynge the moysture in the wounde  
do therewith swell and waxe bigger, wherby  
the wounde is enlarged. And as touchynge the  
forme and figure of tentes, they are made long,  
shorte, bygge, and litle, accoording as necessitie  
require but. yet this is generall, that all tentes  
be made bygge at the one ende, and lesser euer  
towards the other: lesse that they might slippe  
into deape woundes. and theis tentes are som-  
tyme dipped in vnguentes, and somtyme put  
into

into the wounde or vlcer dye, accoꝝdyng as occasion is offred, and this shall suffice, touching tentes, ther vse, soꝝme, and matter on whiche they are made.

John Yates.      **Boulsters** foloweth nexte.

John Feilde,      **Boulsters** called puluilli or plumacioli, are muche profitable and necessarie in woundes: soꝝ they compresse the membꝛe diuided, and noꝝthe, and conserue naturall heate, and keape the membꝛe from the wayte and payne of the rollers, and in the olde tyme they vled to sowe betwyrte two cleane and whight lynnynge clothes, fethers, and so made bolsters, whiche they vled as is also sayde, But soꝝ because they ware compelled estsones, & often to alter ther boulsters, beyng eueried thꝛoughe continuall makynge newe, they inuented to make boulsters of stepes, made with flaxe, somtyme they make theis bolsters of woll or cotton fynly carded, and nowe it is in comon vse to make boulsters of fyne and softe lynnynge clothes thꝛise or moꝝe tinner dabled, as necessi-tye requireth, also manye do make and oꝝdayne boulsters of spongies, of theis boulsters some be applyed wette, and some be vled drye, and there be soꝝ the moꝝe parte. vij. kyndes of bolsters.

John Yates.

**Whiche** are they?

The.

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Tho. Gale. Retentive, conglutina-  
tive, expulsive, restrictive, confortative & con-  
servative. Theis take theis names of ther vse  
and office, for those bolsters whiche be reten-  
tive serue in wounds, for to stanche blod, being  
but lytle and smale, and layd on a stupe or  
splegiant mixyd with the whight of an egge,  
and some restrictive medicine. The congluti-  
natiue bolster serueth to kepe the sydes of  
greate woundes to gether, after that they be  
stitched, and the forme of theis bolsters accor-  
dyng to Auicenne is threcoynard, and so adap-  
ted to the member that one of the corners of ey-  
ther bolster lay on the wounde. The expul-  
sive bolster is ordayned to put out matter or  
sanies in blcers and woundes, whiche be depe  
and holowe, and theis be made eyther of lyn-  
nyng clothe, or els of spongies. The restri-  
ctiue bolster is made of lynnyng clothes du-  
bled two or thre fouldes dypte in wyne or vin-  
eger, or other decoction, and so wronge out  
and layde on eyther syde the wounded parte,  
and this doeth restrayne the flure of humours  
flowynge to the parte, and kepeth backe in-  
flammation and other accidents, whiche  
myght infest and grese the weake membre,  
and the vse of theis bolsters is ryght pro-  
fitable in fractured bones or luxations. The  
confortative bolsters serue to confort and  
strengthen



strengthen the weake membze and are diuersly made, some of fyne lynnynge clothes in whyche is sewed fethers, and this is made lyke a twilte, and serueth for the armes or legges to keape them warme, and naxithe natural heate. There be also some made of tow, whiche are accustomedly vsed in wounds of the heade. Other are made of spongies, dipped in some hotte liqvoze, or oyle, and after wronge oute and applyed to the ioyntes and coulede partes: the conseruatiue bolster serueth in luxations, to kepe the membze reduced to his natural forme, in the same state. as the shouder bone being reduced to his wounted seate, we laye a bolster vnder the arme, or as they commonly say in the arme pitte, and theis be the mooste notable and vsuall kyndes of boulters vsed in the arte of chirurgie.

John Yates. If you in lyke maner make playne vnto me the maner of ligature and rollinges, I shal thynke my selfe satisfied for this present.

John Feild. We will fulfil you request, and firste folowynge Auicenne in his fourth fen. of his fourth booke, we make. iij. sondry sorts of ligature or rolling, that is to say incarnatiue, expulsive, and retentive. the incarnatiue or rather conglutinatiue, is vsed in grene wounds, or fractures. And the roller muste be rolled



## An institution.

rolled bype one both endes of the same, and the begynnyng of the ligature muste be on the contrarye, or opposite parte of the wounded place, wyndynge the one parte of the roller, towarde the hyegher parte of the membre, the other towarde the lower parte. The bzeath of the roller muste be suche, as may couer all the wounde, besides some partes of the sounde fleshe. the roller muste be drawen strayter bypon the wounde, then in the other partes, but yet not so straitte, as may cause dolour or payne, inflammation and flure of humors, and let the endes of the roller be stiched and locked, and not tyed on a knot. The seconde sorte of rollinge, called expulsive, is properly used in olde and holowe vlcers: and this doeth expell the matter, and filthines gathered in the botome of the vlcer vnto the mouthe and orifice of the same. This is wyth a roller begynnyng at the lower parte of the affected membre, and so makynge the ligature straighte, and so procede to the vpper parte of the membre, makynge your rolling lesser, vntyll you come to the orifice of the vlcer.

John Yates. We not offended I praye you, though I seame to bzeake of your talke, and or you procede further, let me vnderstande what you call the hyer parte of a membre.

John Feild. I call wyth Galen the hyer parte

parte of a member that which is most neare the  
lyuer or hearte.

John Yates,                    When I pray you retourne  
to your former talke.

John Feilde.                There yet remaineth to  
speake of the thirde kinde of ligature, whiche is  
called retentive, and this onely dothe serue to  
kepe on medicines on the wounde, vlcere, or part  
affected, and in apostemes and other yll disposi-  
tions, and this is done with one onely roller be-  
ginninge firste on the parte affected, and so pro-  
ceede according to vse, fastning the roller wyth sti-  
chynge, and this kynde of ligature must be done  
softly, sently not to hard or straight but without  
doloure or payne, and must be losed whan ne-  
cessitie doth require. & if that it fortunyth the ro-  
ller to cleave faste to the medicine or member, take  
it not away with violence, but wette it so longe  
with wyne made warme vntill it will of the one  
accoorde lose and be taken away without gricfe  
or payne, and note, that your roller be made of  
fine and soft lynnynge clothes, not to muche  
woyne, and vnable to holde, let it be also of that  
length and bzeath, that the parte affected doeth  
require. as for example rollers, for the thigh  
must be. 6. fyngers in latitude. for the arme  
three fingers brode, for the finger the roller  
being a finger brode shall suffice, as touching  
the longitude or lengthe of the roller, it is to be

As, J.

made

## An Institution.

made as necessitie require, & occasion is offered.

Tho. Gale.

¶ Wel then, seinge that we have ended this talke of stichyng, tentes, boulters, stipes, and rolynges, we wyll here conclude for this present. for behoulde the sonne dyaweth farre west, and the tyme wyll scarce suffice for oure iourne homewarde, and what you heare doc want, you shall fynde in other of my woꝝkes. but in our goinge towarde the Citie, let me heare what you haue boꝝne alwaye of this dayes talke.

John Yates.

¶ I wil repete in byese woꝝdes so much as I can remember.

1     Firste whan as I met you in the morning, being in talke of Chirurgirye you shewed me what it was and gaue me therof diuers Definitions.

2     Secondlye you proued it to be the thirde parte therapeutike and shewed the antiquitie and worthynes of the same wyth certayne noble princes and capitaines who exercised Chirurgirye.

3     Then you saide that Chirurgirye did consist of two partes, the one being called

called the theoryke, the other the practise.

4 After that you declared what was subiectum Chirurgiæ the thyng on whiche the Chirurgian doth exercise hys arte and also what was the ende of Chirurgie.

5 Further you sete out what maner a person he should be that muste learne the arte of Chirurgie, and what conditions are in hym required, and what the cause was that there is so manye rude Emperikes and vnskylful professors of Chirurgie.

6 Consequently you did make men-  
tyon of the chiefe and mooste necessarye instrumentes where with a Chirurgian oughte to be furnyshed, bothe metalline and medicinall with there proper office and vse.

7 Then you sete out the methode & way to be obserued in learning the art  
L.ii. of Chi-

of Chirurgiye and of the righte vse of  
instrumentes both metallyne and me-  
dicinall.

8 Nexte folowyth such syckenes as  
fal vnder the hands of the Chirurgian  
that is to say, tumors againste nature,  
woundes, vlcers, fractures, and luxati-  
ons wyth the Definitions Diuisions  
Differences, and diuers names of euery  
of them.

9 After these thynges finyshed, you  
set oute certayne kyndes of solution of  
continutye taken out of Galen.

10 Also you sete out the operations  
of the Chirurgian, which are required  
in curing the fornamed grefes & what  
thynges are herein to be obseruyd or  
fled.

11 Finallye you set oute the arte and  
maner of styching, tentes, plumacyes,  
stupes, bouldsters, and rollynges: wyth  
there differencis, substaunce, sygure vse  
and



and comodytie. theys seme to be the  
argumentes of this Daies talke except  
I be Deceyuid.

Thomas Gale. They be so indeede, and  
now beholde, we be come to the Citie. Where-  
foze we wyll now leaue of talke here, and you  
both shall this night take parte of suche cheare  
as God hath sent me, and let vs recreate oure  
spirites, and be merve I pray you.

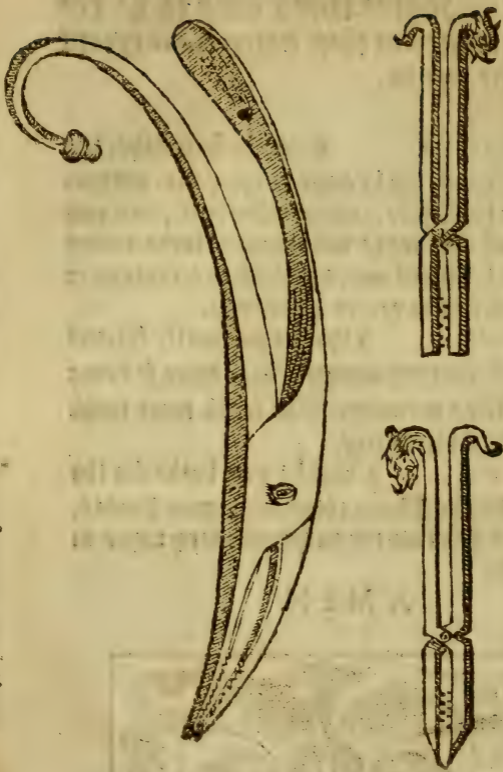
John Feilde. I thanke you hartly syz, and  
I reioyse that my brother Yates haue so firme  
and persite a memozye, God sende moze suche  
to folowe Chirurgirye.

John Yates. I thynke you bothe for the  
great benefice I haue receyued at your handes.  
and God graunte me to spende many dayes in  
this sorte.

A M E N.

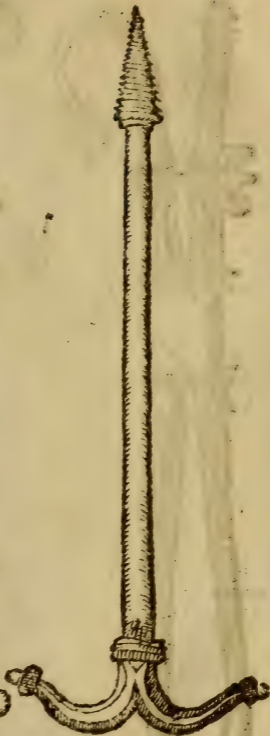
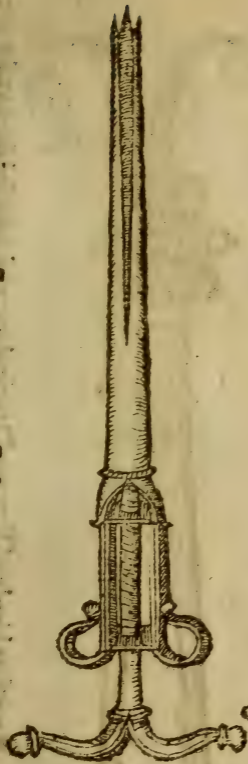


The .j. k. l. of forceps called alio Rosicam Corninum, or Serpentinum.

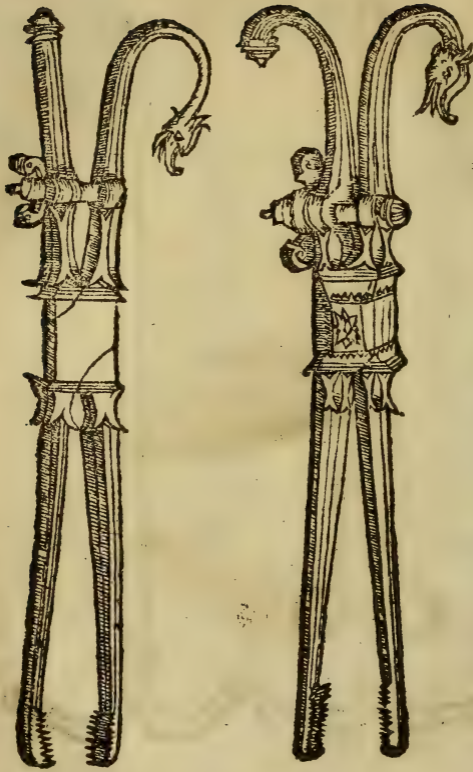


The first kyndes of instrumentes whiche are called forceps, seruyng  
to take out thying fyzed in woundes.

*Terebra interna* seruyng to take out things fixed in woundes.

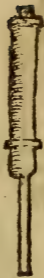


*Terebra directa*, seruyng to enlarge bones when things are therein fixed.



**An other kinde of Forceps Denticulata: and are vsed for to take out  
Shoite pelletes, arrowve heades, and other things fixid in vvoundes.**

For *ex* excisoria, or incision sheares, to enlarge a wounde vwith.



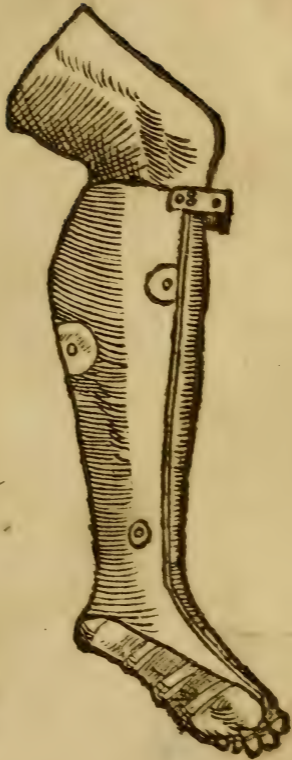
Syrigies to make Iniections into woundes.

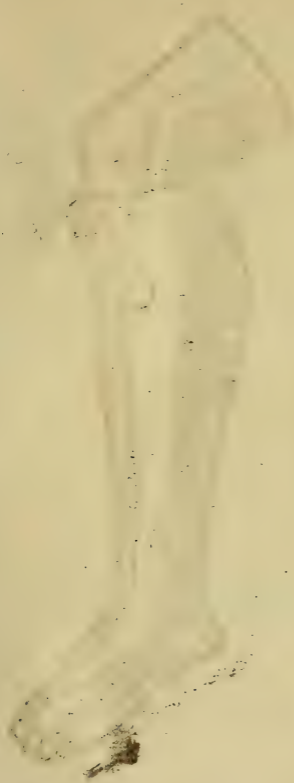


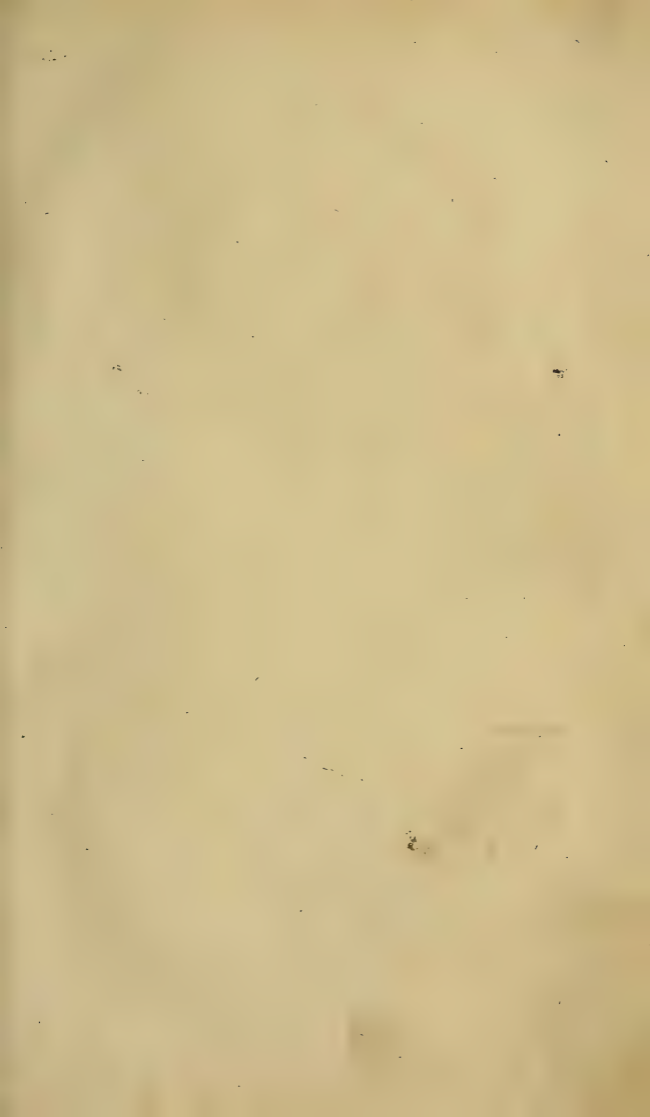
Trepans, or a trepan to bore holes in crania when necessary required.



Gossopium, scruiyng to laye the fractured legge in, broken with a gonneshot. &c.



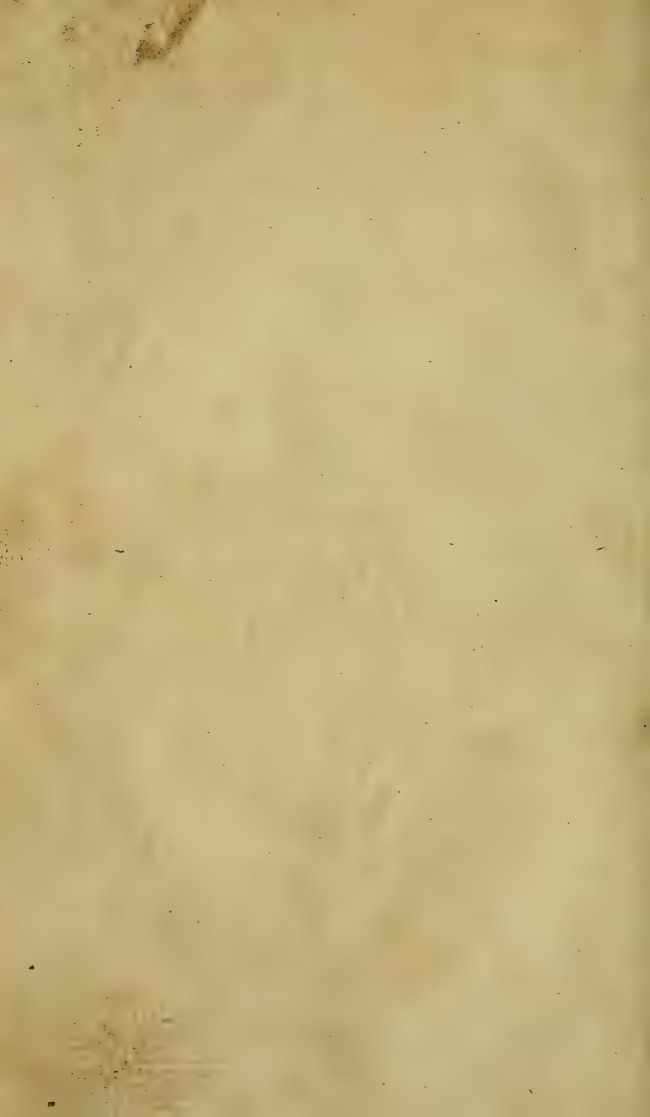












# An Enchiridion

of Chirurgie , conteyning the exacte and  
perfect cure of woundes, fractures,  
and dislocations , newly compiled and  
published by Thomas Gale, Maister in  
Chirurgie.



PRINTED AT LON.

don by Rouland Hall, for  
Thomas Gale.

1563.



# Richarde Ferris Sear-

geant Chirurgian vnto the Queenes most  
excellent Maiestie, vnto his louing frende  
maister Gale sendeth  
greeting.



**T**VO thynges there be at  
this present vvhiche moueth  
me to addresse my letters to  
you maister Gale, of vvhich the  
one is the auncient and famous  
art of Chirurgerie, vvhich vvas in tymes past  
not an art of it selfe, but one portion of the cu-  
ratiue part of Phisicke, called Therapeutice:  
the other is my natiue countrey. These tvvo  
by your labours and paynes: I truste shall re-  
ceyue no smale profite and gaine, and these  
make me to vvryte my letters gratulatorie vn-  
to you. First that the art of Chirurgerie, vvho  
being novv so decayed, vvwhose fame so obscu-  
red, her beauty eclipsed & vutilitie of it dimini-  
shed, shal by you be somevvhat brought to her  
vvonted & pristinat state. For it is in far vvorse  
case novve in this our furious and raging sea-  
son (in vvhich good artes are contemned, or els  
lytle esteemed and had in price) then it vvas in  
the tyme of Mantuan the Poet, vvho ex-

A. ij.

clameth



lameth in this vvyse.

*Fama quidom manet, vtilitas antiqua recessit.*

The Poet speaketh of Phisicke generally vwaying the excellēcie of it, & the great vtilitie that hath come to mankynde by it in the olde tyme, as the vvorkes and volumes of the Greke vvryters, do testifie and beare vvitnessse: and conferring further theyr testimonies vvith the poore fruites of it that did spring in his tyme, as one lamenting the decay of so noble a science, and great gifte of God to mankynde, sayde in effecte.

*Her noble fame yet styll remayne,*

*But few doth health by her attayne.*

He speaketh it in the vvaye of comparation, that there did not so many by the benefite of Phisick receyue their health as did in the olde tyme. But I leaue Phisicke, and vvill speake of Chirurgerie both our professions. Surely I dare boldly affirme that if Mantuan vvere nowe liuing and did beholde the state of Chirurgerie, he vvould not say that her fame did yet remain, but rather that nother fame nor yet great vse remained: I had almost sayde that it vvas knovven but only by name. And vvhat be the causes that she is broughte to this miserable estate? If I shall saye that vvchich I knowv there  
be

be two principall enemies . The one is the Chirurgical himselfe , vvhich neither knoweth nor yet laboureth to learne his arte , but being inflamed vvith the loue of turpe lucrū , rudely and blyndely exerciseth his arte . The other enimie is the Patient vvho hath need of Chirurgeries ayde . For he vvill haue in lyke estimation, a Cobler, a Ioyner, a Minstraile, a vvoman, yea a Horseleache, that he vvill an expert Chirurgical, yea and reppard them as vvell , if it be not better. The remedies for one of these mischiefes you haue, I hope, in tyme prouided. I meane in setting out your Enchiridion . For there shall those that in deed are licensed to exercise Chirurgerie, finde no smale portiō of this art compendioussly and faythfully gathered together. VVherefore leauing other their authours in vvhich many errorrs are hidden, I doe exhort them that bothe for the fame of Chirurgerie, vvhich they ought to their vttermoste to maintaine : and also for their ovvne gain and profite they vvill not only read this Enchiridion : but read and read it againe, not leauing vntill they be made vvell acquaynted vvith the same. And if any places do remaine obscure and darke : they yet haue you the author to resort vnto , vvho vvill as gladly I am

sure open the meaning of them, as he hath  
yvillingly for their gaine and profite compi-  
led the same. As for the other enemy I mean  
the sick patients, it doeth not muche force, for  
they are enemies chiefly to them selues, vwhen  
as they fall into the handes of suche rude and  
bussardly clouters. And although the patients  
being maimed and brought in perill of death  
by such, do exclaime against Chirurgerie and  
Chirurgians; yet if the Chirurgians themselves  
study to be learned & excel such rude Empe-  
rikes, the slaunder shal returne to the authours  
therof again. The second cause of my vwriting  
vvas for my natiue countries sake, that lyke as  
you haue labored frō the tyme that you vvere  
in my gouernaunce & teaching to profite the  
same, and haue novv shevved an euident signe  
and token thereof in this your Enchiridion: so  
you vvill not cease to continue in these your  
good enterprises, and your country shall re-  
vvard you vvith honest report and perpetuall  
fame. Thus I cease to trouble you further, loo-  
king shortlye for the publishing of this and  
other your vvorkes. At my house in

Paddinton, the seconde of

July. 1563.

**C**Hirurgerie vvwhose perfect lyght  
all other realmes do knowve,  
**V**Vhose learned men vvith diligence,  
doth make it shyne and shovve,

**I**n our cost hath not yet apperd,  
saue in most obscure vvysse,  
**T**horovv duskye clouds of ignoraunce,  
that science doeth dispyse.

**B**ut maugre novve the malice great,  
of Momus and his sect,  
**A** most cleare Gale doth blouv avvaye,  
those cloudes and them detect.

**A**s after rude and cloudy ayre,  
the vvvelkyne hiecinthe bleuve,  
**I**s sometyme seene, vvhen vvvynds most drie,  
haue chaunged so the hevve.

**T**herefore to this excellent Gale,  
see that ye thankefully,  
**G**euẽ condinge prayse, and pray that he  
may moe suche blasts apply.

**A.iiij.**      **T**hat

That the armade of learned shipps  
belonging to this arte,  
May vwaye the ancrs spred the sayles,  
and from rough seas depart.

Whyle this gale blowes, that some of them,  
ariue maye at our porte:

That to the fleet of knowldge ons,  
yonge learners maye resorte.

Purchasing ther vvith diligence  
science that vvyll remayne;  
Leuyng aparte vyle ingnoraunce  
the mother of disdayne.

# Ihon Hall

Chirurgian.





Thomas Gale Chirur-  
gian vnto the yonge men of his com-  
pany, students in the noble art of Chirurge-  
rie, wisheth the grace of God, perfect know-  
ledge in their art, and most happy and  
prosperous successe in  
the same.



When as I had for your  
sakes ( dere brethren ) fi-  
nished my booke intituled  
the Institution of a  
Chirurgian, and thought  
to haue proceeded no further touching  
the practike part, but minding to send  
you to Guido de Cauliaco, Brunus, Lan-  
franke, Vigo, or some other of our Au-  
thours in Chirurgerie, whiche doe  
thereof intreate: I could fynde no one  
that might answere my desire. For ei-  
ther they wryte in the tonge whiche  
the most of you vnderstand not, either  
vse they corrupt and barbarous na-  
mes of sicknes and medicines, or they  
be to tedious & longe. or ells to concise  
and brieif. furthermore they welney al  
are so ful of errours, that they are only

for the learned to read, who can discern betwixte trueth and falsnesse. Wherefore knowinge your desyre to learne, and seing the want of such Authours as you should profite by: I lamenting the case, and tendering your wealth haue taken the paynes to compile you this brieue Treatise, called hereof an Enchiridion, in whiche you shal fynde the methode and way how to cure all wounds both in the suniler and instrumentall parts. Also how to bnite and heale fractured members, and to reduce and repose againe into their wonted and naturall place suche bones as be dislocated. Diuers secret and perfect experiments I haue made open vnto you. Wherefore be bolde to worke after the doctrine set oute in this booke, and take these my labours as a pledge of my good wyll towards you all: and loue me styll as you haue begonne. At my house in London the .ii. of August.

# The first booke of the

Enchiridion of Chirurgerie, conteyning the  
exacte and perfect cure of wounds  
made in the similer partes  
by Thomas Gale.

## ¶ The first booke.



As muche as in this present  
treatise (which I do compile for  
the instruction of those that pro-  
fesse Chirurgerie) I do purpose  
to entreat orderly of wounds,  
fractures and dislocations: I  
thinke good first of all to set out what a wound  
is, and howe manye differences there be of  
woundes. Holwe be it my principall scope ten-  
deth rather to teache the practise then the theo-  
rike at this present. Wherefoze a wounde is  
named a solution of continuittie, newlye made  
in the softer partes of the bodye, without pu-  
trifaction, corruption, or matter. For if anye  
matter, putrifaction, or corruption soloweth,  
then is it no moze called a wounde but an ulcer.  
Of wounds I doe make two differences: for  
either it happeneth in the similer partes, as in  
fleshe, arterie, vayne, nerue, bone &c, or els in  
the organicke or instrumentall partes. Of  
these

## The first Booke of

these two sortes of woundes we wyl nowe seuerally intreate. And for because the least and smallest woundes, require least labour, diligence and connyng, and that the student muste in most easiest things be first exercised and trained by: I wyl shewe you briefly the cure of a simple and small wounde, where the skynne onely is divided or cut. You shall aptly ioyne the lippes or sides of the wounde together so euen as possible you can: then make a stufe wyth towne and the whyte of an egge, mixed with a litle salte, and apply it to the wounde, then rolle and bynde it accordyng to arte, and this is sufficient in such kynde of woundes. You must also commaunde the Patient that he exercise not the wounded member, least that he causeth accidentes to fall to the wounde, as inflammation, fluxe of humours, dolour, and payne. &c.

### The cure of great and Depe woundes, and of diuers kyndes of stitching. Cap. ii.

**I**F the wounde be great in the fleshe, and yet without accidents, you shall beginne your cure as in the chapter befoze, that is by compassyng and ioyning the sydes of the wounde together, and than rollynge and byndyng it. But if the wounde be bigge, wyde, or els ouerthwarte



thwarte the member, so that rollinge and binding are not sufficient: than you are compelled to vse stitching, of whiche there be diuers sortes, and I wyll set oute those whiche are mooste in vse. But oz you goe aboute the stitching of the wounde, geue diligent heede that it be mundified and made cleane, that there remayne not in it eyther any vncleansse, as heare, duste, oyle, oz suche lyke: whiche may hynder the adglutination of the wounde. You must for your stitching pzeare a three square Needle made hollow in the eye, that the threde maye the easier folowe, and let your threde be euen without knottes, well twyned and waxed. Then your stitching shalbe in this sorte. Make your firste stiche in the middes of the wounde, than a finger bzeadeth from that make another on bothe sides of the middle stich, & so leauing the space of a syngar bzeadeth, make so manye stiches as the wounde requireth. And take this for a generall rule that you neuer begynne your stitching at the ende of the wounde, because through that occation the wounde might be drawen awoye, and the member lose his beautie, and some tyme parte of his office. And beginning your stiches in the middes, this soloweth of necessitie, that your stiches shalbe odde, if there be moze oz lesse than twaine. And if the wound be deepe and ouerthwarte the member, then you  
 must



## The first Booke of

must make your stitches deeper and that for two causes, the one for that it shoulde not breake out againe the other that the wounde myghte haue lesse matter and better take consolidation. And when you haue thus stitched the wounde you must ouer cast the threide twice or thrise or you knit your knot: otherwysse it wyll breake out or you can knit your knot the proof of which I haue sene among the vnlearned surgeons. And when your wounde is thus stitched then take tow and make a Ruse with the whight of an egge & this powder folowing and lay it on the wounde, and though it hath not beene vsed befoze this tyme, yet it is bothe better and moze conuenient then that which is mencioned in the last chapter and this is the first kind of stitching.

### The description of the powder.

Rec. Olibani p.ij.

Sanguis draconis p. j.

Calcis ex ouorum testis, p. iij.

Ex his fiat puluis subliss. secun-  
dum artem.

**T**he second kynd of stitching is to solve ouer the hand as the skinners doe, which is vsed in woundes of the intestines or where as Siphach is solued to Pirach. The thirde kind is to put the needle through both the lipps of the wounde letting it so still to remayne and winde the threed ſix or seven times about the neadle & thys is vsed in wyde and large woundes. The fourth maner of stitching is when as a bayne or arterie is cut and we vse to stay the flux of blood especially whē as bene iugulares is cut. Then we thrust the needle through that bayne or arte-rye and then knit the same with the thred, then draw out the needle & let a portion of the threed hange out so longe vntyll it falleth awaye. The fyft sort of stitching is vsed in woundes of the face or delicate and tender bodies which are not able to sustayne the paine of stitching with the needle. And the stitching is in this sort. Take litle peeces of linnen cloth thre square and spreade on them this vnguent folowing. And lay on euery syde of the wounde the peeces of cloth euery one from other an inche and when as the clothes are dried well, then stich them and drawe them together and vse the wounde in all other pointes as is a-foze sayde.

**The makynge of the vnguent.**

Rec.

# The first Booke of

Rec. Dragaganti  
Sang. draconis  
Olibahi  
Mastiches  
Sarcocolle  
Pulueris volatilis molaris iij. dragmes.  
Albuminis ouorum q. s. ad incor-  
porandum.

} ana. a dragme.

## Of woundes in baynes and ar- teries. Chap. iiii.

**W**hen as it happeneth that the baynes are cut & wounded you must diligently marke whether they be Venæ capillares (that is to say) small vaines like heare, or ells any of the greater baynes. If they be the smalle baynes it shal suffice to stiche the wound and vse the powder desiccative mencioned in the chapter goyng befoze, with t woe and the whighte of an Egge. But if any of the great vaines be wounded, then the cure afozesaid is not sufficient. Wherefoze you may attempt to stay the fluxe of blood with binding the contrary side to the place wounded: or with letting of blood in another place wherby there is made diuersion of the fluxe. Also wyth frictions and rubbing the contrary partes. If these suffice not then you must applye causticke powders

pouder as Arsenicum sublimatum, Vitriall burnt, busleked lime, or such like, or ells make cauterization with an yron, or stiche the ende of the baine. And lay some desiccatiue powder on it and so dresse the wounde lettynge it so remayne fours daies. And if there be any asker, you must apply to it the whight of an egge & oile of Roses well beaten together. And the cure that is here spoken of baines, is also to be vnderstand of arteries: and the way to know whether a baine or arterie is wounded: is by the yssuing oute of the blood. For in an arterie cut, the blood cometh leaping and springing out with some staye accordinge to the dilatation and compression of the arterie.

### A powder Desiccatiue.

Rec. Olibani ij. vnccs.

Aloes hepaticæ. j. vncc.

Pilorum leporis minutim confiso.  
albuminis ouorum ad incorporandum.

**L**An franke gyueth great prayse to thys medicine, and maketh mencion of a childe thre yeres olde bearing a knife in his hande fell on it, & wounded his throte so that throught flux of blood, the pulce beganne to cease & the childes

B. j.

syght

Sight to decaie. Lanfranke comming by, laide his finger on the mouth of the wounde to stape the flux of bloud: then he tempered the powder with the wheight of an egge, and laide it to the wound, lettynge it so remaine sover daies: and when he would haue taken it away: it was so dry and cleued so faste to, that it myghte not be remoued wout payne, wherefoze he applyed the whyte of an Egge & oyle of Roses beaten together to the place vntyll the next daye, and the wound was founde perfiteley healed, to the great admiration of the people whych dyd beholde it.

*a further more* **In other Desiccative powder.**

*armis:*

*Stano:*

*ut  
in vna*

*in Hepat:*

*lax*

*is*

*gob*

*in Hepat*

*posita non*

*wher in hor*

*aludat.*

*si onoz.*

Rec. Calcis viuae  
Sanguis draconis  
Aloes hepaticae  
Fiat puluis. } ana. halfe an vnce

But if you wyll haue another, which dryeth and restrayneth more, vse this folowing.

Rec: Gallarum  
Sanguis draconis  
Boli armeni  
Thuris  
Aloes hepaticae  
Mastiches } ana. ij. dragmes.



Pilorum leporis iij. dragmes, fiat puluis crassus.

Rogerius and Jamerius vsed another powder, which is not onely excellent in staying the fluxe of blood e, but also doeth ericcate and dry, whose compo sition is in this maner folowing.

Rec. Colophonij vj. ounces.

Boli armeni iij. ounces.

Mastiches

Sang. draconis } ana. j. ounce.

Olibani

Radicis cōsolidæ maioris } ana. j. vnce.

Rosarum persicarum .

Fiat ex hijs omnibus puluis . Vsus, vt supra.

Wunswike remembzeth a stone which he calleth a bloudstone, (but yet not that whyche are named Jaspis and Hematites) & it is in colour pale whitich with lntal red vaines, and is found in Spayne, whose powder he preferreth afoze all other thinges in stayinge the fluxe of bloude in woundes, vaines, and arteries.

Of the woundes in Nerues or Sinowes. Chap. iiii.

B. ij.

In

## The firste Booke of

**I**f a wound it may happen the nerue to be di-  
 uided in length, & sometime ouer that which  
 is very perilous. Also sometyme the nerue is  
 pricked with a neble, bodkin, alle, thzone or such  
 like. Unto all this to cease the doloure and pain  
 of so sencible a part, you shall vse oyle of roses  
 made wyth *Oleum omphacinum*, somewhat  
 warmer then the pacient can well suffer. Also  
 you may make a good digestiue of fine Turpen-  
 tine well washed in the waters of plantyne, or  
*Hipericon*, & apply it to the wound. And if these  
 with often application ceaseth not the dolour &  
 payne; then take *Olei rosacei* two Unces, *Boli*  
*armeni* two Dragmes, & oyl a litle: mixt these to-  
 gether and apply it warme to the wounde. And  
 when the payne is ceased and the wounde dra-  
 weth to maturation: then you may heale it with  
 the drinke and plaster bled in greene woundes,  
 which you shall fynde in the antidotarye. You  
 shall also not onely in wounded *Peruis*, but al-  
 so in all other wounds vse *Vnguentum de ver-*  
*mibus*, whose composition is in this maner.

Rec. <i>Centaurij minoris</i> <i>Cynoglossi</i> <i>Consolidæ minoris</i> <i>Consolidæ mediæ</i> <i>Olei omphacini</i> lib. j.	}	ana. M. j.
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Lum-

Lumbricorum terrest. } ana, half a pou.  
 Vini albi

Stamp all these together and let them stand  
 infused vii. daies, then stamp with that.  
 Scui Oiuini. lib.ij.

Picis } ana ounce iij.  
 Resinæ }  
 Ammoniæ }  
 Galbani } ana ,v.  
 Opopanicis in aceto soluti } dragmes.

Boyle all these together vntyll the wyne and  
 vineiger be consumed. Then strain it and when  
 it beginne to waxe colde adde to it.

Thuris }  
 Mastiches } ana dragmes iij.  
 Sarcacollæ }  
 Croci } dragmes.ij.

These being made in fine powder, in the put-  
 tyng them in, sturce them well wyth a splatter  
 or sylfe that they growe not into cloddes and  
 lumpes. Also to defende the wound of sinowes  
 yea and all other woundes from accidentes  
 whyche doe commonly chaunce, all excellente

The firste Booke of

Chirurgians vse to haue in readynes thys defensyue solowng.

A Defensyue.

Rec. Olei rosarum. ij. ounces.

Boli armeni.

Terræ Sigillatæ. } ana. i. ounce.

Aceti.

Camphoræ. j. dragme.

Solani

Semperuiui } ana. M. j.

Make of all these in a moztter a perfyte vn-  
guent. And if the wounde be to moyst and hath  
to muche superfluous matter whereby it can  
not come to adglutination and cicatrization.  
Then vse this medicine next insuing.

Rec. Mellis rosacci. ounces. vj.

Farinæ Hordeacæ. ounces. ij.

Temper these together and boyle them, but  
suffer them not to burne, then put to it fine ter-  
pentyne ( washed in the water of Hypericon )  
two vnces, mixe them and vse it to the wounde.

Of woundes in whiche are fyred  
thornes, splinttes of woode, ar-  
row heades, gonneshotte, oz  
such lyke. Chap.v.

**W**hen as in woundes their happeneth to be  
fired thornes, splentes of woode, arrowes  
heades, gonshotte oz such other like, and  
the orifice of the wounde is so narrow that with  
instrument it cannot be taken out, you must of  
necessitie labour to enlarge the wounde, which  
you may do two sondry waies. The one is with  
fentes as of the roote of gentian, pithe of elder,  
oz a peece of a sponge: the other is to make inci-  
sion with a paire of cisers oz with Heres whose  
fygure is in the institution. There be  
also when as the wound is enlarged diuers and  
proper instrumentes to take out w<sup>ch</sup> such thinges  
as are there infirid as tōges oz nippers, & terribil-  
lis, whose pictures are in the Booke before  
named. Also you shall know in deape wōdes  
what part is hurt by these signes folowing. As  
the braine beynge wōded he shal voide stomme  
and some at the mouth. If the hart be wounded,  
their pssueth out bloude blacke in colour. Also if  
the longs be wounded, the blood is like a scūme.  
But yf the stomacke be perced the meate inde-  
gest commeth out. In like maner the intestines  
being wōded, the odour issueth. Further more



## The firste Booke of

the vyne floweth out in wounds of the bladder; and so by that which is cōteined in the member, you shall coniecture the wounded part. Now as touching the taking oute of suche thinges as be fired in the wounded member, you may procede principally thre sondry wayes. First you may vse suche instrumentes befoze set oute as shall seme most necessarie. Secondlye if the thyng fired be forkyd as a broad arrowe head or suche like, and be perced through the greater parte of the member: then it shalbe much better to thrust it through the member then to take it out at the orifice of the wounde. Laste of all if these two wayes wyll not serue, because of the wounded place, then as much as you can make the wound wider by tents or incision, and lay maturatiues to it certaine daies, and then that which is contained in the wounde will with lesse difficultye come forth. You shall commaunde the pacient to laye on the wounded syde, because the drynke whych I vse in such woundes may the moze readely come to the wounded part. The composition of this drynke you shall fynde in the antidotarie. Also you may vse thys playster solowynge to the wounde whych is right good in extrarion of such thinges as are fired on woundes,

### The emplastre.

Rec. Apostolicō descrip. Nicholai iiii. vnces.  
 Magnetis orientalis. ij. vnces.  
 Polipodij. } ana halfe. ounce  
 Dictami albi. }  
 Pinguedinis leporinæ. ij. vnces.  
 Olei canabis. j. vnce.  
 Terebinthinæ. halfe an vnce.

Of all these make an emplastre. Also there is another composition of meruailous vertue in drawynge oute rotten bones, thoznes, and other lyke thynges,

Rec. Nucleorum palmularum. }  
 Stiracis rubei. }  
 Salis ammoniaci, } ana v. drams.  
 Aristolochiæ longæ. }  
 Radi. cucumer. asinini. }  
 Teribinthinæ. }  
 Piperis albi. }  
 Piperis nigri }  
 Armoniaci. }  
 Amomi. } ana ij. dragmes  
 Xylobalsami. } and a halfe.  
 Thuris masculi. }  
 Colophonij. }

B.v.

Fecurn

# The firste Booke of

Fecum olei liliacei. q. s.

Ceræ iiiij dragmes fiat vnguentum,

But in arrow heades or that poysoned the medicines rehearsed are not sufficient. Wherefore you must giue the patient some antidotum or Aleripharmacum, agaynste venome bothe inwardly and outwardly, inwardly you shal giue him euery day this potion.

Rec. Vini cretici  
Sublimatæ rutæ } ana ounces. iij.  
Tormentillæ. }  
Dictami. } ana ij. dragmes.  
Theriacæ opt. i. dragme.  
Bulliant ad consumptionem tertie partis.

Outwardly into the wound you shall put oile of biolettes warme, which oile must be made of line sæde oyle. You maye also weate you tent in the same oile and also myrte it with your other medicines that you apply to the wounde.

Of confusyd, brosyd, or crusthyd, woundes. Chap. vi.

**I**n contusyd woundes the methode curatiue differeth from that which hetherto is mencioned. For in these woundes first you shall apply maturatiues, wheroby that which is brosd and separated from the vnitic of the part may be turned to matter ( they call it in Latyne sanies vel pus) and when it commeth to maturation: then you muste vse mundificatiues to mundifie the wounde, vntill it be cleane and voyde of matter. Then your next intention is to ingender fleshe which you must doe w<sup>th</sup> incarnatiue medicines, & euer be diligent to defende the contusid member from accidentes with oyle of Roses warme applied to the same. As touching maturatiues, mundificatiues, and incarnatiues, you shall find them in my antidotarye and in dyuers partes of thys worke,

Of deepe and hydden woundes  
whych can not be well perceyued. Chap.vii.

**I**n this kynd of woundes the cure is done t<sup>wo</sup> sundry wayes. First if the place may suffer it without hurt of vaines, arteries, & nerues, is to delate the wounde with tentes of gentian or of a sponge and after make it open & large wyth infection. The other is if the first waye cannot be done without daunger, to put into the wound a  
p<sup>ro</sup>b<sup>e</sup>

## The firste Booke of

probe or ware candle, vntil you come to the end  
 of the wounde, and make there an yssue that by  
 this way the matter in the wound may be clen-  
 sed with some mendicatiue lotion conuaded in  
 to the wound by a syring. Let your rolling also be  
 such y it be lose at the orifice of your wound, for o-  
 therwise you shal kepe y matter stil in y wound.  
 Neither shall you in mundifyinge the wounde  
 thrust out the mater, for so doing you shal thrust  
 out the indigest matter in colour of blood & hyn-  
 der much the cure of the wounde. As Brunswik  
 maketh mention of a certayne Barbour who  
 had no knowledge in Chirurgery, and yet wold  
 take vpon him to practise. Thys Barbour (ha-  
 uing a pacient wounded in the arme) did euery  
 day thrust out so much bloude and brought such  
 accidentes to the parte, that yf Brunswyke had  
 not fortunatly come, the Barbours pacient had  
 losse hys arme. Suche is the fruite of blynde  
 Emperikes. You shall also aboue the wounde  
 applye some defensiu, and on the wound some  
 mundicatiue, and make your iniections wyth  
 a syring vntill the water come forth of the same  
 colour it was put in. The water vled for iniec-  
 tions is made in this maner.

Rec. Mellis rosacei. vj. vncces:

Rosarum rubearum. }

Florum camomilli. }

ana iij. ounce.

Mastiches



Mastiches.		} ana j. ounce.
Ireos.		
Thuris.	halfe a vnce.	
Mirrhae.	i. dragme.	
Vini albi.	ij. pound.	
Aquarū plātaginis vtriusq3.		} ana, a pound.
Rosarum.		
Caprifolij.		
Foliorum quercus.		

**An other moze behement.**

Rece. Aluminis.	j. vnce.	
Balaustij.		} ana. j. dragme.
Nucum cupressi.		
Orobi		

**A drying water.**

Rece. Consolidæ maioris.	viiij. vnces.
Peucedani.	iiij. vnces.
Aluminis.	ij. vnces.
Aquæ fabrilis per filtrum destil- lata.	iiij. pounce.

**Boyle al into the consumption of the thyrd  
parte.**

**A mun**

The firste Booke of

**A mundicatiue.**

Rec Vnguenti egyptiaci. ij.vnces.  
Aluminis. i.vnce.  
Olibani. halfe a vnce.  
Mirrhæ. j.dragme.  
Vini rubei two pound, bulliant pul-  
liant.

**Of wounds in the bones. Chap.viii.**

**T**he solution of continuittie in the bone is in diuers sundry wyse as fractures, splentes caries, and by wound: of which last we will onely in this chapter make mention. If the bone wounded doth hang to the parricle which inuested & couereth the bone, then doe what you can to cause it to ioyne. But yf thys parricle be also cut, then will not the wounde be fylled wyth flesh except the peeces deuided be taken awaye. And to the wounded bone you shall vse Vnguentum aureum ex mesues præscripto. After you must applye mundificatiues and consoladatiues set out in the antidotary, and see that you vse in this wounde apte ligature and that it be open vpon the wound, that you may daily applye medicynes to the place wythout loseinge of the roller. Furthermoze you muste laye aboute the  
wounde

Wounde some defensiatiue whereby the parte  
shalbe p̄serued from diuers & sondrye acciden-  
tes which might fall to the wounde. The Chi-  
rurgian must also haue regarde that the pacient  
keepe a moderate diet and that he be soluble in  
body. Which if it cannot be by nature, then pro-  
cure it may be done by art. As by purgation, cli-  
ster or suppositoie. And in all other thynge the  
cure of this wounde differeth not from the cure  
of other woundes.

Of a newe kynd of curyng grene  
and freethe woundes wyth  
balme. Chap. ix.

**T**he healing of græne wounds by balme ar-  
tificiall is in this wyse. Close the wounde  
and stiche it make it cleane w̄ a dry sponge  
and put of the baulme into the wound very hote  
and dyesse it twise euery day. And here you must  
note that thys balme taketh not like effecte in al  
græne woundes. For the cure differeth accor-  
dyng to the countrie, complexion of the partie &  
place that is wounded. For if the countrie be hote,  
the pacient colerike and the wound in the head,  
the baulme taketh not lyke effecte nor is to be  
ministred as afoze is said. For the coutry beyng  
whote, and the pacient whote the wounde can  
not be curied w̄ balme which is also hote. And  
it

## The firste Booke of

It is a maximum in phisicke, that infirmities are taken away by their contraries. Now then shall the medicynes lyke in qualities to the region and complexion, cure the infirmity? Except you wyll aunswere me it doth it approprietate totius substantie, which is nothinge so. What then, shall not Balme cure woundes in the foze named patientes? Yes verelye, and I wyll shewe you in what maner. Stich your wound as is before mencioned, and mundisye it wyth a dyve sponge not dypte in water and take away all the blode aboute it: then take Cotten and make a stuphe and dyppe it in Dyle of Roses and Balme not heate, of eche equall portions and applye it to the wound. And defende the woundes wyth all diligence from accidentes wyth some defensiu: for to Colorike persons in whote regions there cometh accidentes spede lye. The lyke cure shall be in woundes where as the boone is seene. Excepte that you must adde to the Dyle and Baulme, Turpentyne well washed and the stuphe beyng layde on the wounde, you maye further vse the emplaster whych customably is occupied in grene wounds. And yf the region be coulde, the patient flegmatycke, and the parte fleshye then applye your Baulme whote, for in those there folowe of course small accidentes, except it be by disoorder of the patient & fault of the Chirurgical

and

and great woundes in these persons will sone be cured. For this artificial balme hath in him the vertue attractiue, conglutinatiue, & desiccatiue: his discription you shal finde in the antidotarie: Also in whote regions, colde complextions: and in colde regions, colericke persons shall soner be cured: then where both region & temperature of the pacient agree in whotnes. The like is to be vnderstand of the time of the yere. For y<sup>e</sup> colerik person being wounded shal soner be cured with balme in winter, then somer. Also the wounde being dressed, there are thre kind of ligatures or roillings vsed as necessitie requireth. The first maketh fleihe in the wounde to grow & is called incarnatiue. The second doth expel such matter and superfluitie as combzeth the wound & thys rolling is named expulsiue. The third reteineth & kepeth the sides of the wounds together, & such medicines as are applyed thereto and is called retentiue. Of them in our institutio of Chirurgie we do make a most ample discours. And thus briesly and compendiously we haue passed ouer the principal woundes which may happen in the similar partes: So we tyme and order requireth that toyth the lyke methode we intreate of woundes in the instrumentall partes.

FINIS.

C. J.

The



# The second booke of

the Enchiridion, conteyning the curation of  
woundes in the instrumentall parts:

By Thomas Gale Maister in

Chirurgerie.



Althoughe it myghte seme suffi-  
ciente for the generall cure of  
wounds to haue made mention  
of those which are conteyned in  
the first Booke: yet seyng perti-  
culer exercise in the instrumentall parts is both  
delectable and profitable: and is as it were a ma-  
ster which teacheth: I wyl indeuor my selfe to  
set out perticulerly the cure of woundes in the  
instrumentall partes. And I call an instrumen-  
tall parte, whych is not simple but compounded  
of the similar, as the head, the eye, the hand, the  
arme, and such like. And for because I wil order-  
ly intreate of them: I do deuide the body of man  
into .iiij. partes, that is to saye, into thre ven-  
tricles, and that whych the anotomistes do cal  
artus, conteyning the armes and legges. The  
first ventricule containyng the animal spirits  
geuing sence and motion to the whole bodye is  
the heade. The second comprehending the vitall  
spirites is from os furculæ vntyll Diaphragma:  
where



## The second Booke of

peneth with the breaking of Cranium, some are with perishing of Dura, vel Pia mater, and losse of some substance of the braine, and others are wout. But for that I woulde you should know whether the Cranium, be fractured or not, I wil giue you certain proper preceptes. If the contusion be great, yf he fall from anye highe place, or haue a greate stroke, if when he retyrneth hys breath there cometh out moistnes through the diuision or fracture of the bone, also vomiting, vertigo, bleding at the nose or eares, the eies red and swolne, want of speche, a sharp feuer, & difficultie of makinge his vyne: all these shewe Cranium, to be fractured. There is also another note to know Cranium fractured, and that is to stroke on Cranium, ynke or Mastick and if there be any fracture, then in the place there wyll appere blacknes, which is a most certayne token that y Cranium, is fractured. Also in your prognostication you must consider these byese sentences. Greate breaken of Cranium, is perillous, and the wound in the braine or corruption of the Dura, vel Pia mater, is deadly and mortall. If the blacknes of Dura mater, whan it happeneth cannot be taken awaye wyth Mell rosaceum, it is a token of death. Also the Cranium, or braine wounded at such time as the moone is at the full (that is when she is in opposyon of the sunne) it

is very perilous. And in curing the wounde yf there be a tumoz or swellng and that same soddenly vanishe, it is perilous. But in the consolidation of Cranium, if the fleshe appeareth redde it is a good sygne. Lyke as if in the wound there be good digestion and no accidentes comming to the same. And soz because in curing the woundes of the head there is diuersytie in workynge and diuers opinions: I thinke it good to set oute certayne documentes whiche I take oute of the famous Guido, whose words are these folowing. First saith he the woundes of the head w<sup>ch</sup> breake of the bone haue much difference from the woundes of the other members both soz the nerves to Cerebalis Medullæ so noble a part, & also soz the roūd and spherelike figure and forme of the head, which hindzeth vniton and is vnapt soz ligature and rolling. Secondly that in great woundes of the head it is nedeful soz to obserue the commō intentions mencioned befoze in the treatise of Phlebotomie and purgiē. That the body be soluble which if naturally it chaunceth not, then by suppositoꝛie, lyster, or ientle lenytiue, you must make it lose. Also y<sup>e</sup> diet thin. &c. Thirdly that in woundes of the heade the heare be shauen & take heede that no heare oyle or water fall into the wound which may let consolidation of the wound, and that to resist dolour both abouc & vnder; apply the white of an egge. And

Tract. 3.  
Doct. 3.  
Chap. 1.

## The second Booke of

after the beginning let thynges be vsed as is aforesaid to mundifie and incarnate. And rounde about the wound alwais vse the vnguent with bols armoniake & oile of Roses, that the dolour & distemperance of the part be all wagled & al apostimatiō put backe. Forthly as you haue often hard of Hippocrates, that all coldnes is hurtfull to nerues, bones, and marrowe, and also the aire doth hurt and alter the p̄ncipal members. And therfoze in winter whan the pacient is dressed let the windowes be close shutte and a good fire of coales, & dresse him wyth a candle & when he is dressed put on his head a coyfe or cap made of a shepes skinne. Fifthly if the wounde be come to digestion and hath matter cōteined in it, that it be remoued away with fine linte or cotten so softly as may be, and this in winter must be but ones, and in somer twice. Sertly that vpon the tentes there be laide a soft spong to suck & draw and receiue out the matter that it falleth not to the braine. Seuently that you haue a role a yard long and foure syngers brode, and that you shal rolle it vp w̄thin ij. handfull of the ende & begin the ligature at the fozehead, and extende it towards to eares opposite to the wound and the p̄ther parte to the eare nexte the wounde leauing the eares vncouered. And let the roulles come dolourewarde to the sycke byndynge and doe it so manye tymes vntyll the heade be covered



uered. &c. Cyghly take hæde yf there rentayne  
 anye skale of a bone, wasshe the wounde wythe  
 Wyne . If there be no feuer gyue hym thys  
 pouder solowynng.

Rec. Pinpenellē  
 Betonice  
 Gariophillatæ  
 Valerianē  
 Osmundē  
 Pilosillē , quantum de omnib . fiat  
 puluis.

} ana.

Last of all that the pacient lay on the side whi-  
 che least greueth him vnto there be founde mat-  
 ter in the wound : and then he muste rest on the  
 wounded parte that the matter maye the more  
 redily boide. Thus much in effect touching Giu-  
 do his counsaile. Also I wythe from the first be-  
 ginning of the wound vntil such time as there  
 is no feare of apostimation y you vse some miti-  
 gatiue as oyle of Roses thre Unces , Honnye  
 one dragme mire them together. And then you  
 may also vse this pouder whych dryeth without  
 corrosion oz pricking.

Rec. Irios j. dragme.  
 Thuris  
 Aristolochiē rot } ana ij. dragmes.  
 Corticū radicū papaueris. half a drame,  
 C.iiij. Sarcocolle

The second Booke of

Sarcocolle	}	ana, j . dragme and a halfe.
Sang. draconis		
Mirtillorum		
Nucum cupressi		

Make these in a powder. Thus much I thought good to write before I entred the perticuler cure of organike woundes, being as guides & counsellers to be solowed thozow this holeboke. Now wil I begin and show their methodicall cure.

Of symple woundes in the heade  
wyth cutting, which happeneth  
without hurt of Cranium, chap. ii.

If the wounde be symple wythoute hurte of Craniū, or losse of substance: then is the cure of it like the cure of other woundes to sciche, rolle, incarnate, and cicatrize. But yf the wounde be wyth the losse of substance then you must dyppe your tents and couer your plegeantes wyth incarnatyues, and Cicatrize the wounde with your accustomed pouders, unguentes, emplasters, and other thyngs thereto belongynge. As touchynge sciching in the heade because manye speake agaynst it: I affyrme it to be not onelye profitable in small woundes, but also in great, most necessarye. For it kepeth the

the partes separated together, which rolling cannot, it also causeth that the aire dothe not alter the part, whych where it chaunceth it is verye hurtfull. And here I except great woundes in the fore parte of the heade whiche maye not be stiched but on the syde. And putting in it oyle of Roses which doth both take awaye the payne of the neruous panicle inuellynge and couerynge Cranium, yf the wounde be so deepe and also it maketh the bones moze easye to be taken oute, and taketh away the sharpenes of Bell when with it we intende to mundifie any inward panicle and defendeth from accidentes.

**Of woundes in the head with cutting and fracturyng or breaking of Cranium, but not through percynge. Chap. iiii.**

**T**he woundes chauncing in the head by cutting and fracturing of Cranium, going not through the whole substance of the same is called Rimula. Thys wounde eyther is greate or smalle, yf it be small it shall haue the same cure mentioned in the Chapter nexte goynge before thys. For in suche a wounde there is small generation of matter, and that engendred through hys grosse substance, cannot discende in the cut

## The second Booke of

oz ryfte . But if the wounde be greate then is it  
eyther in the sydes of the head oz vpper parte of  
the heade. If it be in the sydes, it hath also the  
same cure that the woundes in the Chapter go-  
ynge befoze receyueth . Excepte that in the lo-  
wer part of the wound there be put a tent wher  
by yf anye matter be retayned in the wounde it  
may the easyer come out. But yf the wounde be  
in the vpper parte of the heade it maye not be  
Riched for that nature there cannot purge her  
selfe. If the fracture commeth to the myddes of  
of the two Tables of Cranium, it is nedefull to  
take Heres called Rugines of dyuers bygnes.  
And as the bone of the patient is vncouered you  
shall vse the greater Rugines, then after take  
those that are narrower and so at length the na-  
rowest of all, and thys shall you doe at all times  
in the myddes of the two Tables . Thus shall  
you speedely cure thys wound wyth drying me-  
dicynes and tentes that shall sucke and drawe  
out the matter.

Of woundes in the head in whi-  
che Cranium is cut vnto the in-  
warde panicle, wythout losse of  
substaunce. Chap.iiii.

This

**T**hys kynde of wound wyll haue sometimes sparankes oz sharpe peaces of bones and some are free from them and are euen without sharpe peaces of bone. Those that haue the sparankes doe hurte and offende that panicle which is called Dura mater. Therefore they must be taken away with a lenticuler and made smothe and euen and then is the cure of thys wounde lyke the other woundes in the former Chapter. For yf it be in the vpper parte of the heade you shall vse to mundisye and desiccate withoute stichen, yf it be in the sydes, then in the lower part of the wounde you muste put a tent as is aforesayde that the matter maye the easier come oute.

**Of woundes in the heade confusyd wyth oute fracturing of Cranium. Chap.v.**

**I**t is the proper scope of curyng this wounde to apply to it medicines that resyst flux and repell the matter back. Usyng in the beginning after the accustomed maner h̄ white of an egge mixed with oile of Roses. And so resoluyng the matter gathered, you shall vse Honnye and wine in which salt hath be nput. But if it come to maturation then you shall open it and vse the cure to it that is proper foꝝ apoussumes and  
such



suche medicynes as are mencioned in the generall chapter of contused woundes,

Of woundes in the heade wyth contusion and where Cranium, is lytle fractured. Chap. vi.

**Y**ou muste diligentlve looke whether in the place whereas Cranium is fractured, there are anye sharpe peeces of bones, whych yf there be, they must be remoued with the lenticular as is afoze mencioned. Then you shall dresse the wounde and laye thereon softe silke wette in Honny of Koses and oyle of Koses and wyth your instrument you shall put in the linnen cloth betwixte Dura mater, and Cranium. And laye on it softe tents wetts in mel ros. and oyle of Koses and apply there on a linnen cloth wette in the same, and on the wounde of the fleshe put eyther drye linte or a soft spong to suke vp the matter and apply an head plaster that the matter, close not wyth in. After which you shall in Wyne made whoote, weete towne and presse out the Wyne wyth your hand, and laye that also on then vppon that put drye towne and rolle it softely that the thynges applyed, maye abide on the wounde. And when the wound is mundified then leaue of the fyfthe clothe, and vse the heads

head powder to make the wound incarnate and so with consolidatiues and medicines inducing a cicatrice you shall procede vntyll the wounde be perfectly cured.

## Of woundes confusid with great fracture of Cranium, Chap.vii.

**C**ontusyd woundes with great breaking of Cranium must be cured after this methode.

First you must shauē the here away, then w<sup>th</sup> an incision knyfe you shall cutte the place crosse wise o<sup>r</sup> as other do vse, whiche is not so good after thys maner. Then raise of the fleshe and make the fractured bone open and bare. And yf there folowe any fluxe of bloud, you must cleace the wounde wyth linnen clothes dipt in water and Vinegre o<sup>r</sup> the white of an egge an if there be no flux of bloude fyll the wounde wyth Dye lynth and dippe clothes in oyle and wine & applye it to the place and bynd by the wound as therto belōgeth. When if there foloweth no accidentes which maye hinder the cure of the bone: open the wounde and let the pacientes eares be stopped wyth lint o<sup>r</sup> cottē that he hereth not fo<sup>r</sup> making him faint harted & affraid. And let two mē stay his head with their handes, and then with your knife departe the bone o<sup>r</sup> wyth the lenticuler.

But

## The second Booke of

But if this cannot be done both spedely & wyth out great payne. then set a trappen and bore it throughe so many tymes vntill it be separated from Cranium , and you shall take a waye thys bone fractured byst lifting it by wyth an cleuatoze vntill you may take it a waye wyth your nipers oz fingers. Then you must make y<sup>e</sup> edgies of the bone smothe and euen . And after cure it in all cases as you cure woundes where Cranium is fractured wyth the takynge oute peeces of bones.

### Of woundes in the face. Chap. viii.

**W**ounds in the face are eyther in the fleshy partes oz not , yf in the fleshy partes, the wounde is eyther drye oz moiste. If in thy fleshy parte and the wounde moiste, you must of force stich it with a fine smal round nedle and fine threed: but yf it be in the fleshy part and drye you shal in the place of a round nedle vse a square. If the wound be not in the fleshy partes then in any case you must leaue of stiching & in the place of it to soyne the lippes of the wounde together you shall doe in thys maner . Take Sanguinis draconis calcis ex testis ouorum , Mastiches, as much as is sufficient make in pouder & temper them with Honny vntill it come to the substance of hony. When prepare .ij. linen clothes acco:dyng to the length of the wound & spreade  
of

of it vpon the clothes, and then vnto ether side of the wounde applye a clothe and suffer it to drye. Then w<sup>th</sup> your needle take your stiches on both clothes and vnite , and ioyne the sydes of the wounde so euen and ryght as maye possible be, whyche thynge done laye on the wounde thys powder folowyns.

Rec. Sanguinis draconis. j. dragme.  
 Olibani. }  
 Cacus è testis ouorum. } ana .ij. drams.

Make these in fine powder and temper them with the whyte of an egge and laye it on towe. And aplye it to the wound. After you shall heale it with the same plasters, vnguents, powders, or balme as you accustomedly do another wound.

### Of woundes in the eyes. Chap. ix.

**A**ll woundes in the eyes or aboute the eyes are daungerous both for the nerues of the braine, and also for perill & losse of syght. Mea it happeneth often that through woundes about the eies the nerues optick haue ben stopped & there haue also folowed somtymes a cataracke. What is then to be looked for, whē as the wound happeneth in the substance of the eye? Galene maketh mentiō of one hurt in y<sup>e</sup> white  
 of

## The second Booke of

of the eyes and much moyſture ſlowed out and yet the pacient reſtozed to hys ſyght. In like ſort doth Brunſwycke rehearſe the lyke hiſtoyre of two chylzen wounded in the eye and muche moyſture came forth and he curyed them wpyth thys water ſolowynge. But theſe cures are de raro contingentibus.

Rece. Aquarum feniculi

Rofarum

Polij

Eufragie

Rute

Albuminum ouorum. q.ſ.

} ana halfe a  
vnce.

Theſe did he temper and myre togyther and applied it to the eye. As he affirmeth to the great comfozte and reſtozing of ſight in the chylzen afozeſaid. But I will go to the cure of woundes of the eſes which is without periſhing of ſight. If anye be wounded throughe the vpper or nether parte of the eye ſo that it hange downe, then wpyth a needle beyng bent croked, aptelye ſoz the eye and a ſylke threede well wared you ſhall verye ſpynele ſtyche it bp that the tumout of the eye maye be ths leſſer.

And



And put into the sighte of the eye the water before mencioned, and make a Plaster of the whyte of an Egge, Sanguis draconis, and franscencens and laye it rounde aboute the eye, but beware that it touche not the eye selfe. Also you maye heale it with Baulme, but be diligent none fall into the eye, and euer vse the water aforesayde, whiche is a wonderfull defensiu and letteth accidents to come to the place.

And this shall you perfectly cure the eye. And yf the wounde come with arrow head, or sworde, you shall procede with oyle of Roses, and yf any thing be fired in the wounde, worke after the doctrine set out in that Chapter. And when the thyng fired is out, fyll the wounde wyth oyle of Roses, tempered with the yelke of an Egge warme, and mundifie the wound with mel Rosarum, farina Hordei, & Fenogreci, after applye incarnatiues, and heale the wound with the plaster used in greene wounds. But if it be wounded w<sup>th</sup> needle or thorne, vse the mundificatiue and defensiu aboute the eye, and walsh the eye with this colyrium folowing vntyll he be healed.

Rec. Boli armeni. vncc. ij.

Thusię

Sanguis draconis

Gummi arabici

} ana. vncc. j.

D. s.

Make

## The seconde Booke of

Make these in powder, & put it into a quart of good rose water, & set that glasse in warme water three houres. Then put to it wyne of pomegranettes, & let it remayne in the warme water ( the Alchimistes call it Balneum Mariæ ) a whole daye . After strayne it, and put of it mozning and euening into the eye . Also put on it this plaster folowng.

Rec. Succu Semperuiui Solatri, Boli armieni, Dragaganti, Myrrha, Gummi arabici,	} } } } } }	ana. iij. vnces.  ana. iij. dragmes.
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Make that is to be brought into powder, into powder: and disolue the Gummes in vinegre, and make thereof a Plaster, and if through chaunce there falleth into the eyes, heare, dust, motes, or suche lyke, open the eye, and mylke into it the mylke of a woman. Also it is verry good to vse this medicine plaster wyse, as the other befoze mencioned.

Rec. aquarum solatri, Semperuiui, Tutia preparati,	} } }	ana. ij. vnce.  halfe a dragme.
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Cozali

Coralli rubci, } ana. j. scrup.  
 Margaritar. nō perforat. }  
 Camphuræ, x. graines.  
 Dragaganti, } ana. viij. graines.  
 Gummi arabici, }  
 Cerusæ lotę, v. graines.  
 Lactis mulieris, } ana ij. dragmies.  
 Albuminis ouorum, }

Mixe these together and vse it plasterwise, as is afoze sayde.

### Of woundes in the eares and lippes. Cap. x.

**T**here is nothing in these woundes proper to it selfe, but is cured as other greene wounds, that is to saye: First sicke it and lay thereon the powder mentioned before, made of Frankencense, sanguis draconis, and hyme of Egge shelles, &c: and aboute the place lay some defensiu. And the iij. day applye oyle of Roses and the yelkes of Egges. After mundifie the wounde with Mel rosarum, farina hordei, Turpentine, Sarcocolle, & Myrthe. When heale it by with balme, or the plaster used in greene woundes: regarding alwayes if need require to purge, let blood, bore, and scarifie.

The seconde Booke of  
**Of woundes in the nose.**  
**Cap. xi.**

**T**he Nose is sometyme cut of , and some-  
tyme hangeth by the fleshe of the lippes.  
If it be cut of , there is no cure to be vsed,  
foz the organicke partes deuided, wyl not re-  
ceyue vniton and ioyning againe together.  
If it hange by the fleshe of some other parte,  
then stitche it aptly and reduce the nose to hys  
naturall forme . Then put into the nostrelles  
tentes of Wolle , oz Goose quilles , that the  
head maye bothe purge it selfe the better , and  
also that he maye the easier drawe by the ayre.  
And on the wounde selfe, laye the pouder here-  
after folowynge . Then laye thereon the whyte  
of an Egge with towe tempered with some of  
the foresayde pouder , and after bynde and rolle  
it, whiche thynge that you maye the easier and  
moze aptlye doe , let hym put on his head a  
cappe oz queyfe , and solue thereto your bande,  
and so maye you procede in the curation of this  
wounde , with the balme oz plaster vsed in  
greene and freshe woundes . The pouder ap-  
plyed to the seame of the wounde is this.

Rec. Thuris	} ana. ij. dragmes.
Calcis ex testis ouorū	
Sanguis draconis	

**¶** Dirc

Mixe them with the whyte of an Egge tempered with oyle of Roses, the defensiuē maye be in this maner folowng.

Rec. Succi solatri }  
Semperuiui } ana. vj. vncc.  
Olei rosacej, iij. vnccs.  
Boli armeni. ij. vnccs.  
Aceti j. vncc. misce.

**An other defensiuē.**

Rec. Vitellos ouorum. ij.  
Sang, draconis }  
Dragaganti } ana, ij. dragmes.  
Gummi arabici }  
Boli armeni.

And yf you woulde haue the skinne sayre, then you may lay on it this vnguent folowng.

Rec. Thuris, }  
Myrrhæ, } ana. j. vncc.  
Farinæ fenogreci, ij. vncc.  
Resinæ, vj. vncc.  
Lithargyri auri, halfe an vncc.  
Olei oliuarum, ij. pounce.  
Ceræ, iij. vncc.

D. iij.

Mixe



## The seconde Booke of

Mixe these, and make therof an vnguent, and vse it, as necessitie shall require & the discrete Surgian thinke conuenient.

### Of woundes in the mouthe.

#### Chap. xii.

**T**he wounde of the mouthe hath nothing proper to it selfe, but is stiched, defended, mundified, incarnated and cicatrized, after the maner of other greene woundes, therefore it were superfluous to make a bayne reherfall of the cure & medicines, seyng it is playnly set out before, and medicines prescribed which are thereto conuenient.

### Of woundes in the necke.

#### Chap. xiii.

**W**ounds in the neck somtyme are made in the fleshye parts only, somtyme in the ligaments, cordes, & nerues, somtyme in the great vaines & arteries, & sometime in the passages where as byrthe, meate & drinke, goeth in. If it be in the fleshe, it differeth not fro the cure of other greene woundes, but w<sup>th</sup> stiching powder wine & other accustomed medicines it is cured. If it be in the ligaments, cordes & baynes, take deepe stiches in the fleshye parts about the ligaments, cordes & nerues, & then cure it with oyle of ground wyomes, & the plasser vsed in greene woundes

**wounds.** If it be in the great vaynes & arteries there is great perill, throught the great flure of bloode, stiche the vaynes and arteries, & vppon them laye this pouder, whiche Galene vsed in the lyke great flures of bloode.

**Rec.** Thuris, j.vnce.  
Aloes, halfe an vnce.

Make these in pouder, and incorporate them with the whyte of an Egge, bntyll it come to the thicknes of honny, then put to it the heares of an hare, and apply it to the wounded vaynes or arteries. Or you maye vse in place of it, thys pouder folowpng.

**Rec.** Colophonij, iij.vnces.  
Consolidæ maioris,  
Lapidis æmatitis,  
Mastiches,  
Sang. draconis,  
Olibani, } ana. halfe. vnce.

Make these in fyne pouder and vse it as the other afoze. Afterwarde you shall in all cases cure this wounde as is mencioned in the firste booke of vaynes and arteries wounded.

D.iiij.

But

But if the wound be in the passages of ayre,  
meate & dzyne, you shal stich it & vse the pouder,  
& vse it outwardly as other woundes: but inwardly  
you shall geue them Diasymphiton & Dia-  
dragacantum to licke with their tongue, and  
when the wounde beginneth to digest, then  
mundifie and incarnate it with this medicine  
folowynge.

Rec. Mellis rosati colati, iij.vnce.  
 Farinæ Hordei, v.vnce.  
 Terebithinæ, iij.dragmes.  
 Cera, } ana. ij.dragmes.  
 Resinæ, }  
 Thuris, } ana j.dragme.  
 Mastiches }  
 Mirrhæ, } ana.halfe a dragme.  
 Sarcocollæ, }  
 Mumia, }  
 Olei Mastiches, iij.vnce. fiat emplastrū.

Hetherto haue we shewed the cure of woundes  
organicall, which may happen in the first or vp-  
permost Ventricle: Now in lyke maner we wil  
direct our penne, & set out the cure of woundes  
whiche commonlye chaunce in the seconde or  
middle ventricle.

## Of woundes in the brest.

## Cap. xiiii.

**W**oundes in the Breste either are without percing through the same, or ells they are into the brest. If they be without percing into the body, they are cured as other greene woundes, with tolwe dipte in the restrictiue powder, and layed to the wounde, and with the Jewes plaster, or the plaster incustomed in greene woundes, or elles with Balme. But if the wounde be percing through, then it is cyther with bloode falling inwardly and hurte of some inwarde part, or elles it is without flure inwarde, or percing of any inwarde member. Howe you shall by signes knowe if anye of the inwarde partes be hurte, I haue set oute at large in the fyfte Chapter of the first booke. As touching the cure of woundes in the breste, which are without hurte of any inwarde parte, you shall in no wyse tent them, but stiche the wound, & with stufes dypt in wyne, vnguentes incarnatiue, emplasters, and conuenient rolling, heale it by lyke another wound. But if it be percing through, and he bleed inwardly and some of the inward parts are hurt, then with al expedition and haste, you must labour to bzing out such bloode and matter as is within conteyned, and you must put in a tent large & long, on

D. b.      which

## The seconde Booke of

whiche you shall streke oyle of Roses, & fasten a threde to the tent that it goe not in, and so put the pacient to great payne. The pacient must be layde vpon a bozde on the wounded side, & so moued to & fro that the matter maye come out at the wound, & make iniectiōs of wyne oz Mellicratum with a syringe, diligentl̄y markinge the quantitie and colour of the wyne oz Mellicratum when it cometh out, for if it be lyke in quantitie & colour, then you neede no more to make iniectiōs for all the matter within conteyned is quite boyded at the wounde: Or you may boyle in oyle of Camomile, Lupines, mel rosarum, & Myrthe, vntyll the iij. part be consumed, then strayne it & make iniectiōs with a syring as afoze, and then shorten your tent, and apply this mūdificatiue folowing to y wound.

Rec. Mellis rosati colati, halfe a pounce.

Mirrha,

Thuris,

Sarcocolla,

Teribinthine, two dragmes.

Farina hordei

Fenogreci.

} ana. halfe an vnce.

} q. su. fiat emplastrū.

Then you maye giue him euery morninge halfe a pynte of the potion warmed, whiche is  
bles



used in these kinde of woundes, whose composition is in this sort.

Rec. Centaurij minoris,  
Costi,  
Nepiteꝝ,  
Garyophillateꝝ,  
Pinpinelleꝝ,  
Poloselleꝝ,  
Summitatū canabis,  
Caulium rub.  
Tanaceti,  
Rubiꝝ,  
Glycirrhizeꝝ,

ana.vj.dragmes.

Boyle all these together in sayze runnyng water vntyll the consumption of the thyrde parte. Then strayne it, and put thereto of clarified honnye so muche as shall bee sufficient to make the potion pleasaunt in taste. You muste also geue hym to licke of Diasparmaticon, Diadragagantū, Diasympiton, or Diacodion, all do comforte and strengthen the Best. And when the wounde is mundified, and the matter digested, then you shal heale it with the plaster called Diapalma or Phenicinum, and with this powder solowynge vsyng apte and conuenient rolynge, accoꝝdyng to art.

Rec.

## The seconde Booke of

Rec. Mastiches,  
Mirrhæ,  
Thuris,  
Sarcocollæ,  
Sangui.draconis

} ana.j.dragme.

Make them in fine powder, and thus haue I shewed you the proper cure of suche woundes as maye happen in the middle ventricle, beyng not deadly and mortall, which do vtterly refuse all kynde of curation.

### Of woundes in the thirde & lowest ventricle, called vsually the Belly. Chap. xv.

**T**here are properly three sundrye simple woundes in the region of the belly according to which there is three diuers cures. For either it is a smale wounde not percing through: or elles it perceth through, and so doth hurte of necessitie some of the inwarde partes, but yet they come not out: Or elles it perseth through with hurte of the inwarde partes, by reason of whiche they come forth. You shall knowe what parte inwardlye conteyned is wounded by theyr proper sygnes set out in the the fyfte Chapter of the fyft booke.

As

As touching the cure of these woundes, I will feuerally intreate. If the wounde in the Belly be but in the fleshye partes, withoute persyng through, then you shall stiche it, and heale it with Balme, or the plaster accustomed in greene woundes, without further difficultie. But if the wounde perleth through Siphac and Myrach, and yet hurteth no other of the inward membrs nor they come not out, then the cure of this wounde shall be as is aforesayde in all thynges except stichyng. For in the first stiche put the needle through the one lyppe of the wounde, but touche not Siphack: and after put the Needle through the other lyppe, and through Siphack and Myrach, and make a knot vppon the threed. In the seconde stiche thrust the Needle through the one lyppe, and and through Myrach and Siphack, but in puttyng the Needle through the other lyppe, you shall not touche Siphack but Myrach, & make a knot without, and so procede orderly vntyll the hole wou'd be stiched. And this is it that Galene sayth, so we Siphacke to Myrach, because it is a neruous panicle, and without blood it can not of it selfe take consolidation. But yf any of the inwarde parts, as the stomake, Lyuer, Splene, Intestines, or Bladder, be wounded, and yet by reason of the smaless of the wounde, they come not out, nor can not cōueniently be taken  
 forth

## The seconde Booke of

Soth, then you must with muche wisdom and discretion amplyat & make the wounde larger, and if the wound be in such partes as are to be stitched, as the bottome of the stomake, or intestines, then they shalbe solwed as the Skinners do accustome ouer the hand, and put vpon the seame this powder folowing.

Rec.	Olibani, Mastiches, Dragaganti Gummi arabici,	}	ana. j. dragme.
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Sang. draconis Mumix, Misc fiatq3 puluis subtilis.	}	ana. half a dragme.
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And then you maye procede to the outwarde wounde and stiche it and let the threed of the inwarde wounde hange out at the outwarde wounde, that as inwardelye it doeth consolidate, so you may take awaye the threed and applye to the outwarde wounde this powder folowynge.

Rec.

Rec. Sanguinis draconis, }  
 Olibani, } ana. half a vnce.  
 Calcis è testis ouorū, }

Make these in powder and vse it as is afoze  
 saide, & in all wounds of the inwarde parts giue  
 the pacient the wounde drinke specified in the  
 viij. Chapter of this booke. Also Blisters  
 made with Sipticke wyne, are merueylouslye  
 commended, in lyke maner is this potage oz  
 bzothe muche commended.

Rec. Aquę pluuiialis vel fontanę, q. su.  
 Furfuris trectici,

Let these boyle one houre then strayne it, and  
 put to it these pouders solowng, and geue the  
 pacient to eate thereof .iij. oz. .iiij. tymes a daye  
 oz you maye pzeare him bzothe made with a  
 chicken yf he be muche infbled & weake, & put  
 of the foresayde powder into it, but if Zirbus  
 be wounded & corrupted, then sayth Galene, let  
 the blacke & corrupted partes be bounde with a  
 threde oz corde, & cut away al that is so bound, &  
 after the stiching of the belly, let the ends of the  
 corde hange out, at h̄ neither part of the wound.  
 But if the wounde be through percing wyth-  
 out hurte of some inwarde parte, & comminge  
 forth of the same, then in this cure there are .iiij.  
 ententions to be obserued.

The



The firste is to put suche partes in their proper places as are come forth. The seconde to stiche or sowe the wounde. The thyrde is to applye apt medicines. And the fourthe is, that none of the inward partes suffer doloꝝ or tumoꝝ, but be defended from accidents. The first intention is brought to effect, if the wound be bigge & wide enough, that with softe and gentle handlyng, they maye be put in theyꝝ due place. But if by this meanes they may not be put in, eyther foꝝ the strayghtnesse of the wounde, or elles because the partes be swollen or inflamed, then you muste worke in thys maner. That is to saye, if the wounde be to strayte, then you shall enlarge it aptly with a conueninnt instrument. But if they maye not be put in, because the partes are swolne and inflated, then you shall labour with continuall fomentations to put awaye the same, whiche spyngeth foꝝ the moꝝe parte of coldnesse of the ayꝛe. When take softe Sponges dipte in warme water, and foment the intestines, and after foment them with astringent Wyne, whiche is muche better then the water, and doth a great deale moꝝe strengthen and comfozte the intestines. The seconde intention is performed with softe and gentle handlyng & compressing the Bellye beyng certayne that the members without be rightly placed, then conueniently

to sow and stich by the wound according to art. The thye<sup>d</sup> intention which is done by application of medicynes, is to lay that comfortable powder on the wound whose description I showed in this chapter aboue. Also stufes with wine, inuaratine medicynes, emplasters, and other conuenient medicynes & roling as are according to art. The fourth intentiō of the cure is done with soft wolle wette in warme oile and lay it about the region of the flanks, and giue him clisters of oile Dille or Camomill: & also vpon the wound selve to power of the same oiles & applye emplasters made with fenegreke, Limesede and althea. Or you may boile wine and salt with as much flower as wil suffice to make it thicke, and apply it as hote as he may suffer it vpon his rolling and ouer all the partes that suffereth payne. And when thys is cold then vse an other, and so do so many tymes vntil the dolour & paine ceaseth. And as touching the matter if anye remaine within after the stiching & curing of the wound, there is no great regarde to be had because nature doth digest and resolue it: and if there be any multitude she sendeh it to the flanks, and then the cure of it, differeth not from the cure of other apostumes whych happen in the flanks.

The second Booke of

Of wounds in the bladder, yarde,  
and testicles. Chap. xvi.

**W**oundes in any part of the bladder except it be in the necke of the same ( whiche thorow his fleshines wil receyue consolidation) are incurable. But those that are in the neck of the bladder, yarde, or testicles, haue the same cure that other greene woundes haue. You may verie well lay on the woundes of these partes, this medicine folowing.

Rec. Mellis rosarum. ij.vnces.

Olibani

Mastiches

Dracaganthi

} ana. ij. dragmes.

Make these in Pouder and myre it wyth the Mel rosarum, and lay it bypon the wound: for it doth both mundifye and doth also defend the part from accidentes yet yf for the sensibilitie of the part, there happen great dolour and payne, foment the parte wyth Dyle of Roses warme. And doe in all other thynges, as in the cure of greene woundes.

Of the woundes in the partes cal-  
led Artus, conteynynge the armes  
and legges: and fyrst of the woun-  
des in the armes. Chap. xvii.

**T**hese parts named Artus hath their begin-  
ning at the Shoulders & so stretcheth vnto  
the hands: and beginneth again at Ischion  
and extendeth vnto the ende of the toes of the  
feete. The woundes in the arme have no pecu-  
liar cure to it self from other wounds, moze then  
that the woundes in this part must haue y<sup>e</sup> most  
suereft and strong kind of stitching you cā diuise,  
because of the bygnes and ponderousnes of the  
arme. If the wound be in the fleshe, then cure it  
after y<sup>e</sup> second chapter of the first boke. If in the  
vaines & arteries, then folow the method set out  
in the secōd chapter of the same boke. Like as if  
the nerues be wounded, or els the neruous pla-  
ces as the ioynts, & heads of the muscules, the li-  
gaments and tendons & such like. &c. you muste  
obserue the doctrine contained in the fourth chap-  
ter: & if the wounde be in the bone you may vse  
the like curacion, that I haue taughte in the, 9.  
chapter of the same booke. Furthermoze yf the  
wound be both in flesh, vaine, arterie, and sinow,  
then you must folow all the pzeceptes set out in  
the, 2. 3. 4. chapters. And compound & mire your  
medicines together, according as the wounde is

## The second Booke of

In more parts then one . And if after the cure of the woundes in the ioyntes (as manye times it fortuneth) there are any knots or hardnes lefte wherby the ioyntes haue not their free motion, then you shall take a waye thys accident wyth thys plaster folowing.

Rec.	Lithargyrij	iiij.vnces.	
	Muscilaginis fenogreci		}
	Sem.lini.		
	Muscilag.Maluiscici	vj.vnces.	}
	Resinę	xvj.vnces.	
	Oleorum camomille		}
	Oli iarum		
	Cerę	vj.vnces	
	Farinę fenogreci		}
	Sem.lini.		
	Mastiches		}
	Thuris		
	Axungie		}
	Pingud.gallinaceę		
	Anserinę		
	Anatis		

Make of these a playster according to art, and apply it to the knottes and it wyll resolue them and put them a waye.



## Of wounds in the thighes knees and legges. Chap. xviii.

**T**HE same cure that is required to the woundes in the armes, is also vsed in woundes of the thighes and legges. But the woundes that happen in the ioyntes as in the elbowes, knees, and other like be most perilous and dangerous, because of the cordes, ligaments nerues, and sinowie partes which being wounded bying most greuous paines, and dangerous accidentes. Therfoze beside the cure set out of wounded nerues and sinowie partes in the fourth chapter of the first booke: you must with all diligent skil, labour to kepe the wound from paine and accidents: by purging, letting bloud glisters, diet, repercussives, and defensatiues & medicynes that doe cease dolour: amonge other thys is one.

Rec. Olei rosacei . . . . . iij. vnces.

Lumbricorum terræ ij. dragmes.

Make the wormes in powder, & mire it with the oile & being made hote dyp cotten in it and lay it to the wound so hote as he may suffer it. Then vpon it, you shal lay a linen cloth. iij. fold dipped in wine in the which these herbes folowing are boiled: then wette your roller also in it and rolle the member accordyng as it is shewed in oure institution of Chirurgerie.

Rec.

The second Booke of

Rec. Pilosellę	} ana.M.j.
Arthemisię	
Betę	
Herbe candeleę	
Vini.optimi.iiij.pounde.	

Also to defend the place from accidentes thys  
defensiuē folowing is right precious and good.

Rec. Olei rofacei	iiij.vnces.
Boli armeni.	j.vnce and a halfe.
Terrę sigillatę	} ana halfe an vncc.
Aceti	
Caphurę	halfe a dragme.
Succi Solatri	} ana j.dragme.
Semperuiui	

Mixe al these together in foyme of an unguent  
& vse it about the wound. The other medicines  
hereto belonging you shal finde in the antidota-  
rie and also in the furth chapter of the first boke.  
and thus I haue set out to you both briefly and  
plainly the cure of woundes in the instrumen-  
tal partes: and also wherin they differ from the  
wounds in the similar partes. Now wil I shew  
you the cure of woundes which happen through  
bitting of a mad dogge, or stinging with a snake,  
adder, scorpion, or such like; and then wil finishe  
this second booke.

Of woundes commyng through  
bittinge of a madde dogge, sting  
ging with a snake, adder, scoz-  
pion and such like. Chap. xix.

**A**lthoughe the cure of thys wounde rather  
both appertaine to the Physicion then to the  
Chirurgian, yet (requiring no small parte  
of this art to the cure of the same) I wil shewe  
the cure of it according to the most approued au-  
thers Greekes, arabians, and Latines. And  
for because all virulent bytyng of venemous  
beasts & serpentes haue well neare one cure, I  
will shew the way and maner to cure the biting  
of a madde dogge, vsing it for an example to fol-  
low in the curation of the rest. Galene in the .13.  
booke of his therapeutike methode, sheweth two  
indications in curing these woundes, the one is  
the euacuation of that virulent liquoz, the other  
is the alteration of that which causeth dolour &  
paine. The euacuation of the virulent liquoz, is  
done by whoote medicynes, whiche doe attracte  
and drawe. Amonge whiche Aetius dothe mer-  
uailously praise theriacam Andromachi, made  
plaster wise and applyed to the wounde. Also he  
vseth a playster vnto the same beyng of mer-  
uaylous effecte whose composition is in thys sort  
solowinge.

E.iiij.

Rec.

## The second Booke of

Rec. Picis. j.pounde.

Aceti acerrimi Sextarium italicum.

Opopanacis. iij.vnces.

Myrc them and make them in a plaster according to art. This is the methode of curing these kind of woundes, and these be the chiefe and principal medicines: which like as diligently I haue collected and gathered out of the principall authors writing of the cure of these kynde of woundes: so wishe I them to put it in prose when necessitie requireth, and also to take thankfully these my labours and paines.

F I N I S.



# The thyrde Booke of 33

the Enchiridion. Setting out the remouing of  
such accidents as happen to wounds:

by Thomas Gale Maister in  
Chirurgerie.



**N**ow that we haue brought to an end and shewed the methodicall cure of woundes as well in the simpler as also in the organicall members of mans body: & haue set out diuers and those both excellent & also approued remedies for the same: I thinke conuenient in this thryd booke to show the perfit curation of such accidentes as do accustomably follow in woundes, eyther throughe the nature of the wound or vndiscrete blage of the pacient, or els throughe the errour of the Chirurgiã. These accidentes are called of the Greeke wytters Symptomata, And be such, as when they happen in woundes you shall neuer cure the wound befoze you haue quite put the away. And the accidentes which commonlye happen in woundes, for the moste parte are these folowinge . That is to say, Dolour, Inflammation, Distemperance, a feuer, pruritus, conuulsion, the palsey, Syncope, and alienation of minde. Of these, so bzeifly and exactlye as I can, I wil in order make mention willing this booke to supply onelye the place in  
tyme



time of nede, where the learned Phisitian cannot be had. And first we wil beginne w that accident which is called dolour oꝝ pain in woundes.

Of Dolour in woundes, and the alwaging the same. Chap. i.

**T**his accident called dolour, paine oꝝ grese, byingeth a flux of humoꝝs to the wounded part, & stereth most greuous accidentes, as phlegmone other wise called inflâtion, apothemes, and such like. Yea and that in those bodies which are pure and frée from excrementes. Wherfoꝝe with all diligence you must labour to cease the Dolour, oꝝ at the leaste to mitigate it somewhat, applyng to the place, fomentations w oile of roses warmed, mixed, and tempered with the white of an egge. But if the paine be so vehement that w this medicyne it will not be mitigated: And that you are constrained to vse some stupifactiues, you shal make your fomentations w oile of popie, and if great bygent cause constrain you, you may adde a litle opium to it oꝝ Oile of mandage. There are other who doe much commende this emplaster folowing.

Rec. Radicis Solani ij. vnces.

Foliorum malux M. ij.

Furfuris triticei iij. vnces,

Olei rosacei, q. l. fiat emplastrum:

Also

Also other do apply to the affected part an em-  
plaster made of bread or whete flower boiled in  
milke and some oile of Roses. And these ceaseth  
the dolour & paines two wayes . Both in resol-  
ving som part of the matter gathered by reason  
of the flux: & also in aswaging some what the be-  
hemerie of the paine by the qualitie of the medi-  
cine. But of the medicynes, whych do aswage  
and cease dolour you shall haue it moze at large  
set out in the antidotarie.

### Of inflammation and apostema- tion. Chap. ii.

**T**hat which the greekes call phlegmone, we  
vsually terme in our language inflamati-  
on. And is no other thing then a vehement  
heate stirred in any part of the body through the  
force of the humoz flowing to y<sup>e</sup> part. There are  
iij. intentions to be solowed in the cure of an in-  
flamation. The first standeth in the righte order  
of diet, the second in ceasing the flux or diuersion  
of the anticident matter. The third is in euacua-  
tion of the matter collected & now impate in the  
part affected. The fourth standeth in the corret-  
ting & putting away of accidentes. The first in-  
tenttion is fulfilled in the right vse of the syre  
thinges called Non naturales, as in the purenes  
and temperatnes of the aire . The meate  
and drynke could moyste and smalle. To fles  
exercise, and to vse quiet and reaste of bodye.

¶ To

## The thyrde Booke of

to vse moderatnes in slepinge and watching, to beware of surfiting and layng as they say gorge vpo gorge. To kepe alway the body soluble and lose. To flee all behement perturbations and affections of the minde, as anger, contention chiding and such like. Last you must abstaine from Venus scruyce as from the greatestt pestilence that may be in this disease. The second intention which is in ceasing and diuersion of the matter that floweth, is by opening a vaine in the contrarie side, if the age and strength of the patient can suffer it. Also apply medicines to repell and dzyue backe, amonge whiche Galene prayseth Oxycraton (that is water and Wineigre boyled togither, and soment the place with a spong dypt in it, also you may boile in some astringēt wine, the rine of a Romegarnet and soment the place therwith. Or els to apply to the place inflamed cataplasme which Galene in his seconde booke ad Glauconem doth so much commende whose composition is in thys maner.

Rec. Semperuiui  
Naliconj. } sing q. s.  
Sumach.

Boyle this in wine vntil it come to the forme of a cataplasme. Also Auicenne in his 3. fen. forth booke

boke. First Tract. Chap. 3. describeth another of  
 muche effecacitie . Hys composyton is in thys  
 soyme.

Rec. Succi Semperuiui	j. pound.
Vini nigri	half a pound.
Farinę Hordei	iiij. vnces.
Malicorij	} ana. halfe an vnce.
Sumach	

Boyle these and make therof an vnction. But  
 as you boyle these, you must make the malico-  
 rium and sumach in powder. The thirde scope in  
 euacuating that is collected in the beginning of  
 inflammation, is done wyth repercussyue med-  
 cynes, and to mire with these suche as doe digest  
 the matter, among which this is one.

Rec. Rosarum.	} ana. iiij. vnces.
Florum camomillę	
Sapę	j. vnce.
Aque fontanę.	j. pound and a half.

Boyle these and make an emplaster of them.  
 But if the inflamatiō be in augmento then you  
 shal mire with your digestiue , medicines that  
 repressle and letteth the flux . But when the in-  
 flamation is in statu then mire with the foresaid  
 medicines,

## The thyrde Booke of

medicines, medicines that doth somewhat mit-  
gate. As oile of roses. Also you may vse this em-  
plaster which in this sort folowing is described.

Rec.	Parietariæ	}	ana, M. j.
	Maluæ		
	Furfuris	}	ana j. vncc.
	Farinæ volatils		
	Fenogreci	}	ana ij. vncces.
	Anethi		
	Olei camomillæ		vj. vncces.

Boile all in wine while they come to the sub-  
stance of an emplaster. There is also another  
excellent plaster which Galene vseth in the Vi-  
gour of an inflammation and is thus made.

Rec. medullæ panis frumentacei j. pounce.

Let it stepe in whote water for the space of an  
hower, then straine it and put to it.

Mellis optimi iij. vncces.

Make of these an emplaster and apply it to the  
inflammation. But yf the inflammation be as they  
call it in declinatione you must only vse medy-  
cines to digest which may euapozate the matter  
remaining: yf the inflammation doth ende by e-  
uapozation or discussion. But if it turne into  
an aposteme then you muste vse medycynes  
to suppurate, to open, and to mundaye,  
of



of which you shall haue a large discourse in my booke of tumors agaynst nature : and also in my booke of curyng vlcers. The fourth scope of remouing or rather defending the inflammation from accidentes, as dolour, feuer, apostemie, and such lyke, requireth diuers and sundrye remedies, whiche because they be accidents also chauncing in wounds, I wyll entreats of them in their proper Chapters.

## Of remouinge and takinge awaye Distempéraunce in woundes.

### Chap. iiii.

**T**hat distempéraunce whiche happeneth to mans body, whether it be hote, colde, moyst or dry, or els cōpounded of these simple, Galene & al the Grecians comprehend vnder & name of Dyscrasia. Of which if to the wound there cometh a whote disposition, which you maye easily coniecture by the great rednesse and vesication you muste infrigidate the place not with Venbaine, or Wandrake, but rather with Roses Plantaine and vnguento albo, whiche doe as well desiccate as moderatly make coulde. But if the distempéraunce be colde, which you maye Judge by the softnes and leadye colour of the skynne: You shall put these away by medicines

F. J. contrary

contrary in qualitie , whiche doe moderatlye heate . So that you maye not applye Rosen, Riche , or Asfaltum , but wyne , unguentum nigrum, or fuscum , or Basilicon . So in lyke maner if the wounde be to moyste or to drye, they muste bee cured by theyr contraries . And here is to be noted that if the distemperaunce be in heate & moysture, or in heate and drynes: in colde and moystnes , or colde and drynesse, then your medicines vled in the simple distemperatnesse, muste be mired together contrarye to the compound distemperaunce.

### Of conuulsion whiche happen in woundes. Chap.iiii.

**S**Pasmos whiche we call conuulsion is no other thynge then a deprauate motion chauncing to the voluntarie facultie of moyning through sickennes . Conuulsion chaunceth thre sundrye wayes . By repletion , by inanition , and by societie or participation with the brayne . The generall methode in curynge these thre sortes is to holde strongly, & to chafe and annoynt them wyth oyle of Lilies, or elles with common oyle in defecte of it . The conuulsion springyng by inanition is cured in this maner . Fyrst foment the place wyth oyle , or elles  
with

With Hydreleum made warme. Also if no other thynge be let or impediment, you shall vse a bathe in whiche is boyled the head & feete of a shepe, goate, calfe, or lambe. Also in whiche is put Malowes, Althea, Violet leaues, Beates, and Mercurye, puttynge to it the thyrde parte of oyle. Some there be whycher with great profite doe vse this linement folowynge, annoynting with it the ridge bone or spine of the backe and all the ioyntes.

### The liniment.

Rec. Olei violarum, iij. vnce.

Amygdalarum dulcium,	} ana. vj. drames
Pinguedinis gallinæ,	
Medullæ crurium vituli	
Pinguedinis vituli,	} ana. x. dragmes.
Hædi,	

Boyle all these in the decoction of Malowes and rootes of Althea, vnto the consumption of the sayde decoction, then straine them & make a liniment of them, & vse it as I haue aforesayd. But if the conuulsion come of fulnesse, you muste cure it by euacuation of the whole bo-dye. But there be two wayes to euacuate, that is to saye by lettynge bloods and by purgynge.

F. ij. But

## The thyerde Booke of

But we let bloode in those bodie in whiche there is abundaunce of bloode or elles where inflammation hath caused conuulsion, althoughe there be no abundaunce of bloode. But if the fulnesse be of humoꝝ, then you must purge that which doeth offende whether it be fleame, colloꝝ or melancholie. But grosse and viscous humours are to be expelled w<sup>th</sup> Hiera, Picra, & Agaricke. You muste also vse sharpe Glysters, also Gargarismes, Apophegmatismes and neesing, that the grosse fleame maye come forthe by the nose & mouthe. The body beyng thus purged and let bloode, annoynte the necke, arme, p<sup>l</sup>tes & flankes with this lynciment folowing.

Rec. Oleorum liliacei,	}	ana. ij. vnces.
Costini,		
Spice,		
Laurimi,	}	ana. halfe a dragme.
Castorei,		
Euforbij,		

Mixe these together and vse as is besoze sayd. Also Rogerius and Theodoricus doe muche in this sickeneise p<sup>r</sup>ayse the vnguent, whose composition as in this maner.

Rec.

**Rec.** Olei muscellini, j. vnce.  
 Petrolci, halfe an vnce,  
 Olei communis, } ana. iiii. vnce.  
 Butyri, }  
 Styrcis calamitæ, } ana. ij. dragmes.  
 Rubræ, }  
 Mastiches, }  
 Olibani, } ana. half an vnce.  
 Gummi hædera, }  
 Ceræ, an vnce,

Make these in an vnguent accordyng to arte,  
 and with this vnguent moderatly heat, anoynt  
 the whole necke, and all the spine of the backe.  
 Last of all if the conuulsion commeth by con-  
 sent and societie of partes, and springeth of do-  
 lour, you must cure it by medicines called Ans-  
 dyna, of which we haue made mencion in y<sup>e</sup> first  
 Chapter of this thyrde booke, and also in oure  
 Antidotarie. But if it appeare by the bytyng or  
 sting of anye venemous beast or Serpent, you  
 shall apply bores to the wounde, and make a  
 plaster of Triacle and laye to the place, and vse  
 the same methode of curyng that is set out in  
 the last Chapter of the seconde booke. And yf  
 conuulsion insueth because sharpe and corro-  
 dyng humours doe byte & fret the mouth of the  
 F. iij.      stomacker



## The thyrde Booke of

Stomacke: then with all diligence you muste prouoke him to vomite, & after strengthen the Stomacke bothe outwardlye & inwardlye wth apte & conuenient medicines, folowynge the counsell of some expert Physitian.

Furthermoze in all conuulsions this is a generall rule, you muste strengthen & corroboreate the brayne. Therefore shauynge the heare, you shall soment the head, necke, arme pittes, flankes, spine of the backe, and ioyntes wth oyle of Lilies, If these doe not take place, then accorдынge to Galenes doctrine, you shall cutte the nerue a sundrye. For (sayeth he) it is better to suffer hurte & losse of one parte, then to looke for a certayne and ineuitable death.

### Of the the Palsey comynge of a wounde. Chap.v.

**P**Aralysis, whiche we in Englishe call the Palsey is the relaxation & molifynge of the nerues, with losse of feelynge & mouynge of one syde or parte of the bodye. This accident sometyne foloweth vehemente conuulsions, & chieflye after greate woundes in the head, and in the spine of the backe. It doeth howe soz the hys myghte. The cure of the Palsey is thys wyse, Fyrste you muste euacuate

euacuate the bodye by purgynge of the hu-  
 mours, & euacuating the bodye. Pea by letting  
 of blode also if necessitie requireth. Further to  
 diuerte the fiure whiche goeth to the resolved  
 parte, vsynge also a conuenient diet, in all  
 whiche it is necessarye to consulte with the  
 learned Physitian. These thynges beyng  
 done, then let the Surgian wyth all diligence  
 applye locall medicines, amonge whiche ma-  
 ny doe vse emplasters, cataplasmes, vnguents,  
 fomentations, boringe, & dyuers other reme-  
 dyes. But Guido (out of Desue) hath chosen  
 a moste pccious liquour, and agaynst this ac-  
 cident of moste wonderfull effecte, wyth which  
 he annoynteth the spine of the backe, the necke,  
 and the parte resolved, and surelye there is no  
 remedye comparable to it. Pea, and Guido  
 leauynge all other medycines helde bym selfe  
 well satisfied and pleased onelye wyth thys so  
 pccious a treasure. But I wyll omitte the  
 prayse of so noble a lyquour seyng my witte  
 is to simple, and my penne to rude to do  
 that herein is required, and therefore  
 I let that passe, and wyll shewe you  
 the composition.

F. liij.

Rec.

The thyerde Booke of

<p>Rec. Myrrhæ electæ,          Aloes hepaticæ,          Spicæ nardi,          Sangui. draconis,          Thuris,          Mumiaë,          Opopanacis,          Bdellij,          Carpobalsami,          Ammoniaci,          Sarcocollæ,          Croci,          Mastiches,          Gummi arabici,          Styracis liquidæ,</p>	}	<p>ana. ij. dragmes,</p>
<p>Ladani electi,          Succu castorei,          Musci,          Terebinthinæ optimæ ad pondus          omnium.</p>	}	<p>ana. ij. dragmes. sc.          halfe a dragme,</p>

Beate all those to powder , that are to bee  
 broughte to powder , and mixe all these wyth  
 the Turpentyne , and put them in a vessell  
 of distillation and with a softe and gentle  
 fyre

lyze drawe oute this moſte precious liqour,  
and if to this reſpoſition you dyd adde ſuche  
Herbes as are vſed in curynge the Walſey, you  
ſhoulde make youre medicine ſo muche the  
moore precious.

## Of Syncope or ſwoounding through cauſe of the wounde.

### Chap. vi.

**G**alene in the twelfth booke of his Thera-  
peutike methode ſayeth, that Syncope is  
a ſodayne decaye of ſtrength, commynge  
through imoderate euacuation, vehement  
dolour, continuall watchynge, intemperate-  
neſſe of the principall partes, or vehement  
perturbations of the mynde. But Syncope  
whiche ſoloweth in woundes ſpryngeth for  
the moore parte of greate effuſion of bloode  
or elles of vehement dolour. And you maye  
eaſelye coniecture the commynge of it, by the  
weakenefſe, pulse, paleneſſe of face, colde  
ſweates aboute hys necke and temples. And  
this accident is not lyghtlye to be regarded be-  
cauſe it ſo ſondenlye commeth, and is as it  
were the image of death. Therefore comfort the  
wounded man by all meanes poſſible. Suffer  
no great company to be where he is, and befoze

F. b. this

this accident come, giue him a pease of fyne  
 White bread sopped in the best Wine you can  
 get, into which Wine you shall put Rose wa-  
 ter Bozage water, & a cake of manus christi  
 perlati, and after you haue tossed of the bread,  
 geue hym of the Wine to drinke, & comforte  
 him with sweets smelles, & chase his temples  
 with Rose water, & if he begynne to sownde  
 cast colde water on hys face, & chase & rubbe  
 his temples with your handes, pull him by the  
 nose, exclame & call him loude by his name,  
 rubbe his handes, & pull him by the eares, & doe  
 what you can to reuiue & quicken his spirites  
 as is the accustome of learned Physicians.

Of alienation of the mynde com-  
 ming by the reason of the wound.  
 Chap. vii.

**D**Elyrium or alienatio of the mynde is a mo-  
 tion deprauate of the principall facultie;  
 takynge hys begynnynge of euill humes  
 ascending to the head, & also of intemperatnes  
 of the brayne: it doeth diuers tymes fortune  
 the brayne to suffer of it selfe, & sometyme by  
 consent with other partes. But I wyll speake  
 onlye of that alienation of mynde, whiche com-  
 meth by consent of parts. Therfoze if that alle-  
 nation



nation of mynde apprehendeth the patient after he be wounded, you must call some skilfull Physitian, which with potion, frictions, binding of the hands & feete, sharpe glisters here to apte to attracte the fumes & vapours from the head, and when the vigour of this accident infecteth, it is good to powze on his head the decoction of Popie. For Galene sayeth we muste labour to astoyne somewhat the brayne, & prouoke slepe by all meanes possible. Auicen sayeth that manye haue bene deliuered of this accident by vsinge certaine dayes the decoction of Bzionic rootes. And thus I haue set out the most notable & peryllous accidentes, whiche happen in woundes, with their intentions curatiue, and proper medicines vsed in the same,

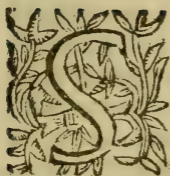
¶ herefoze I thinke it good here to  
finishe this thyrd  
Booke,

FINIS.



# The fourth booke of

the Enchiridion comprehending the manner of curing fractures, and luxations: by Thoma Gale Pailler in Chirurgie.



Syng I haue hetherfo in theys proper bookes set oute the cure of all those woundes, whiche maye happen in the softer partes of mannes bodye, as in the fleshe, muscles, baynes, arteries, nerues, tendons, ligamentes, and suche lyke: and haue further shewed sufficiently the methode to put awaye suche accidentes as happen to greate woundes (soz to greate woundes commeth greate accidentes) tyme nowe taketh me by the slecue, and sayeth directe thy penne, & addresse thee to wypte of those woundes, whiche happen in the harde partes of mannes membyes, that is to saye, in the bones. Suche bee those woundes whiche are called fractures oz breakynge of bones, in Greeke Catagmata, and also of luxations and dislocations of the same, whiche because bothe are affections commynge to the bones, I wyll wypte of bothe in this fourth and laste booke of thys Enchiridion, begynnynge fyrste at the fracture

fracture of bones, whyche done, I wyll also  
intreate of dislocations.

Of the trewe and perfite cure of  
bones fractured. Chap. i.

**B**Efore I do take in hande to intreate of the  
cure of bones fractured, I wyll set out what  
a fracture is, that thereby it maye bee the  
better vnderstande, that hereafter shall bee  
wrytten. Therefore a fracture is a solution of  
continuitie made in the bone. Of bones fractu-  
red: There bee there differences. One when  
the bone is broken in lengthe, another when  
the bone is fractured ouerthwarte, the thyrde  
when as the fracture is oblique or crooked.  
Albucasis and other latter wrytters make the  
differences of fractures, not accoꝝdyng to the  
bone fractured, but after the place affected, as  
if the nose be broken, or the brayne panne, or  
Iawes, ribbes, backebone, armes, thyghes,  
legges, syngers, or other parte: whych in deede  
be not differences of fractures, but as I sayde,  
of the place affected, accoꝝdyng to the nature  
of which the bones broken haue spydier or lon-  
ger tyme or they can bee vnited agayne toge-  
ther. For the Cranium is ioyned together in  
siue and thyrtye dayes, the arme or legge in the  
space

## The fourth Booke of

space of fourtye dayes, the fossilles aboute thyrtye dayes, the nose taketh perfect consolidation in eyghtene dayes, the ribbes in one and twentye dayes, the Falwes, the bones in the hands, & feete, aboute twentie dayes. And so in lyke sorte is to bee spoken of the tyme of curing other bones fractured accordyng to theyr natures, also the tyme maye bee longer or shorter, accordyng to the age of the Patient, tyme of the yere, dyet & order of lyfe. All whiche must bee diligentely considered of hym that wyll appoynte anye tyme determinatelye in curing of bones. But nowe to the trew & perfecte cure of bones fractured. And so because the fracture is a solution of continuittie, there is required the vnition againe of the same. But to the vnition of the fracture are required foure scopes or intentions. The first is that the parts of the broken bones be ioyned & put together in their proper place. The seconde intention is that they beinge so reduced to their naturall forme maye so be conserued, & kepte wythoute motion. The thyrde scope is that the parts of the broken bone may be conglutinated & ioyned together by engendring of callus. The fourthe and last intention is to correct those accidents, which do come after the fractures of bones. Of these foure scopes & intentions accordyng to my pooze knowledge I wyll severally intreate.

**Howe**

How the partes of the bone fractured  
 are to be vnited together and  
 put in their proper place. Chap. ii.

**F**irste of all it behoueth to note diligentlve  
 whether bone broken be out of the naturall  
 place or not, which you shall knowe by these  
 signes sayeth Cornelius Celsus . For if the  
 member where the bone is fractured doeth ex-  
 tende it selfe & stande vpwarde , and is with  
 pricking, and when it is touched it sholweth an  
 inequality: These bee sure tokens and sygnes  
 that the bone broken is out of his natural place,  
 wherefoze after the counsell of Guido de Cau-  
 liaco , the member is decently to bee extended,  
 and that parte of the bone that is depressed is to  
 be lysted vp , & that other parte whiche is stan-  
 dyng vpwarde muste be put downe , & thys  
 with so muche lenitie & smale payne as is pos-  
 sible, vntill the endes of the bone fractured doe  
 meeete & bee vnited & broughte to theyr naturall  
 forme & place. Neyther is this possible that the  
 bones fractured & brought out of theyr naturall  
 place can bee reduced & rightly vnited & placed  
 but with some force moze or lesse . So that if  
 the member be smale & of no greate strengthe,  
 as the finger or other lyke member , one man  
 may wel extend & stretch it out applyeng his one  
 hande



hande on the one parte, & the other hand on the other parte of the broken bone, vntyll bothe endes of the bone fractured doe meete and foyn together. But if the member bee greate, hauinge stronge nerues & tendons, then one man is not sufficient, but there is required two: specially where the fracture chauneth in the thighes, legges & armes, of stronge & robuste persons. But you muste diligentely take heed that the member bee neuer to vehementlye or imoderately extended & drawen out, for that doeth byynge (specially in harde & drye bodyes) behement dolour, feuers, conuulsions, & sometymes the Palsey: Yea it happeth often by this meanes, that the fibres & threedes in the heades of the Muscles be broken. Wherefoze there is muche wysedome & discretion herein to be vsed. But nowe to that from whence we are digressed. Fyyste the sicke man is to be set in a chayre, or elles if it bee mooze conuenient, layed on hys backe on the bedde. Then two men for thys vse prepared, you shall commaunde the one to holde with his handes the parte of the member aboue the fracture: and to the other, to laye hys hande on the neyther and lower parte of the member, vnder the fractured bone. And thys beyng done, willynge them so longe to stretche and put oute the member vntyll bothe endes of the bone doe meete, then thou

Thou w<sup>th</sup> thy hands shalt handsomly forme it & put it in together, laboring to bring it to hys natural figure & forme. But if the member be such as that w<sup>th</sup> their handes only, they are not able to extend the same then you must haue bands of which the one shalbe fastened aboue the broken bone the other vnder: and so the one man placed at the sicke patientes head and the other at his fete. They shal stretch and extend oute the member as is suffycient w<sup>th</sup> the bands in their hands. And thys is a suffycient token y<sup>t</sup> the bone broken is reposed in hys righte place, and that both endes be vnited together: when that the patient feleth a releasing of his payne and Dolour. The bones being thus ioyned together, lest that they should go a sunder again, it is necessarie to rolle and bynde it in suchs wyse and maner as shal here after be set out. And if it fortuneth that the broken bones be not vnited but remain out of their place a few dayes there accostomably followeth great inflammation and no smale perill and daunger to the nerues & tendons. And thus bryefly and suffyciently I haue set out the first intention. There is also an instrument v<sup>s</sup>ed to extend out the member w<sup>th</sup>, of whych Hippocrates and Paulus maketh mention: which you may prepare and vse, but I omit it and vse the waye aboue sayde as moze apte and w<sup>th</sup>oute perill.

The fourth Booke of

Howe the broken Bones vnited  
and ioyned together aptly : may be  
kept and remaine in the same figure,  
so that they maye come to their for-  
mer estate. Chap. iiii.

**W**hen as the broken bone is reduced to hys  
right place & is formed according to his na-  
turall figure: it is very expedient to kepe it  
in the same, which cannot be in any wise if that  
the member be moued. Wherefore it is necessarye  
by all meanes possible to kepe the members w-  
out motion. Which thing although the patient  
perhaps in the day time wil carefully regard: yet  
at night whē depe slepe dothe occupy his senses  
he shal of force neglect. Wherefore y as well day  
as night: sleeping as waking, the member may be  
conserued wout motion, it shalbe necessarye to  
vse apt and conuenient ligature & rolling. But  
before you do go about to rol the member, it is ve-  
ry good to mixe the whitte of an egge & oyle of ro-  
ses together & wet therein a soft linen clothe of  
such bignes as may compasse not only the place  
where the bone is fractured, but also some what  
of the sound partes. When this being applied to  
the affected part, you shal next bynd and roll the  
membze: in which you must diligently regard  
that you compresse not the member by to hard  
rolling: & so the nourishment cannot come to the  
part, and also dolour and pain may cause flux of  
humors & inflammation: neither must you bynde

it to flacke & lose, for then the broken bones will separate again and go in sunder. Wherefore you shal vse a meane hercin that you bynde not the member to straitte noꝝ to lose, but solowne hereint both your owne discretion and also the feling of the patient. And as touching your rollers you must haue two made of soft cloth, whose bredth & latitude must be such as in rolling there be no losenes, widnes, & plaitis: the lenth of these can not certenly be showed, but must be according to the bignes of the fracture & thicknes of the member. The beginning of the first roller must be vpon the fracture, & so rolled about it .iij. or .iiij. times, & then rolling vponward vntil you com to the sound parts which must also somewhat be rolled. So by this meane the bones vnited shal moꝝe firmly remayne together and the fluxe of humours staided þ̄ they canot come to þ̄ affected part. The beginning of the second rol must also be vpon the fractured place, going .iij. or .iiij. times also about the same, & so continuing downward vntyl you haue compassed the sound parts: which done, you must w̄ the same roller ascend vponward again vntil you come somewhat aboue þ̄ first roler. Wherefore this roller must be half as long again as þ̄ first roller is. The vtilitie of this second rolling is that it putteth that is superfluous vnto the lower parts, & suffereth not any fluxe of humours to infeste and noye the parte affected.



## The fourthe Booke of

These rollers would be wet in water and wine mixed together befoze you do vse them. And yf there be anye vehement paine or inflammation then the member would be wapped about with fine woll wcl carded, or els w stufes wet in Oxycratum. And the ligature or rolling would not be hard but such as mai defend and kepe the vnited bones together. Furthermore because these bindings and rollings are notable both to defend the member from accidentes: and also to kepe the member together & confirme the same: Hippocrates vsed certaine plasters or cerotes, or such like which must be put vpon the two rollers and is as it were the thyzde ligature or rolle. Among which is vsed ceratum humidum, made of waxe melted in oile of Roses. But yf that there be besides the bone fractured, the solution also of continuie in the fleshe then you shal not in any wise vse eyther cerote or oyle because it wyl make the vlcer filthie and stinking. But in their place to vse plumaciols that be long, dipt in red and stipticke wine. And one thing which kepeth the member from dolour and paine is after that the same be rolled and aptly put together to place it in his naturall forme so neere as you can. And it is mooste nye vnto the naturall forme and figure, when it is so layde as is wyth lesse paine and greefe. But because this forme and figure should be surely conserued and kepte

and



And, accidentes put a way, the later Chirurgians haue vsed to put aboute the ligatures certayne splentes at the first dressing: binding them so about the member as the patiente, or accidentes may suffer. Galene and the old wryters vsed not splentes befoze the vii. or ix. daye: notwithstanding it is conuenient to vse the splentes at the beginning, so that they thzough strait binding compresse not the member, and make Dolour & inflammation. The splentes muste be equall, smothe, euen, not croked or rugged, and in the middes thicker then in the other parts that they may be the moze able to strenthen the member in that place wheras the bone is fractured. The way and order in applyng splentes is in thys wise. There must be clothes iii. or iiij. fold dypte in Rose water and layd vpon the rollers according as the member requireth. When the splentes inuolued, and wond about with wolle or cotten must be placed round about the member a finger byeth a sonder, and bynd them moderately & gently that you compresse not the member. And in any case take hede that none of the splentes touch any ioynt, if anie be neere the fractured bone: for that wil make vlceration and inflammation in the same ioynt. Therfoze if the fracture be neere to any iointe you muste in that parte make your splents shoyter smaller and lighter. And yf no dolour, no inflamation, no itching, no vlceration,

commeth

## The fourthe Booke of

commeth to the fractured part, then you may let the splents remain on vnto the .xij. day or .xv. day yea or vnto the .xx. day. But if any of these happeneth then it shalbe conuenient to vnrolle the membre the thyrd day and soment it wyth luke warm water wherby both the sharp & accoriding matter is washed the paine ceased & the itehinge put away. And thus much touching the second intention.

**H**owe the partes of the bones broken may be conglutinate and ioyned together. Chap. liii.

**S**eing that the fractured bones cannot be conglutinated & made to grow firmly together nether by apt & conuenient rolling nor splenting nor by puttinge of them in there naturall forme and figure except there be made somwhat to grow out of the nourishment of the bone which may cause them to close & grow together they call this callus, which like a glewe doth glewe them together therfoze the thyrd intention is to make this callus to grow by al meanes possible. But thys must be ingenyzed of grosse & earthy parts such is the nourishment of the bones. Thys callus after the mynde of dyuers doe begynne to grow about the tenth or foztenth daye. And that it doth begynne to grow you shall perceyue and iudge by these signes and tokens. The Dolour and payne is alwaged; the inflammation

tion cealeth: the tumour banisheth away : the naturall colour of the member commeth againe to the same. And for that the chiefe and principall way to make callus grow and ingender standeth in apte and conuenient diet, I will briefly vtter the same vnto you. Although at the beginning of the fracture, Hippocrates counselleth that the patient doe vse a thinne and small diet: and that he doe abstayne from fleshe & wine for the space of x. daies, yet now whē as our scope is to ingender callus you must licence him to vse a moze large diet & meates that make good iuice, & that grosse & somewhat viscos for of such nutriment the bones are nourished & callus groweth. Therfor they comēd much fine & pure wheat boyled in cleane fountaine water while the wheat do burst, & the water being so concocted is somewhat thick. They cal thys w<sup>ch</sup> vs in england frumentie potage, And I suppose it to be that which diuers cal Alica. Also the heads & fete of beasts are very good in this case, chesye of a kid or els a wether. For these do much nourish & be of grosse & viscos iuice. Also giue him to drinke good redde wyne when as he goeth to meate, but let it be moderately taken. The bignes of callus muste not be eyther bygger or lesser then is requisite, for being bygger it byngeth payne to the muscles: and yf it be lesser then is it vnable to defende and strengthen the fractured bones.

How callus shalbe kept that it be nether to big  
oꝛ litle, you shal see set out in the chap. folowing.

How the accidentes which hap-  
pen to fractured bones are to be  
remoued and put away. Chap .v.

**T**his fourth scope and intention although it  
be the last in order, yet is it not the least in  
vertue and vse. For it doth show how to re-  
moue all accidentes and thinges against nature  
which doth let and hinder the curing of the frac-  
tured member. Suche accidentes for the most  
part are dolour oꝛ paine, inflammation, itehing  
a wound, immoderate dꝛines oꝛ moyster, letting  
& hindzing the generatib of callus, gangriena,  
hardnes, and the quantitie of callus to much oꝛ  
litle. These as I sayd be the chese enemies to  
hinder natures worke, & I will set out the ways  
to expel and put away euery of them beginning  
first with the accidentes called dolour oꝛ payne,  
& with inflammation, named of the Grecians  
phlegmone. Therfoze if these accidents do infest  
and besege the fractured member, after it be  
bound rolled & dꝛessed: you shal with spede lose  
the ligature and take away the roller, & then the  
member being bare and naked, you shal so-  
ment it with oile of roses, vineger and wyth  
other like medicines befoze remembꝛed in the  
theyꝛd



theiſd booke where I wrot perticulerly of the cure of theſe accidentes. Neither ſhall you uſe agayne eyther ligature or ſplentes befoze the dolour be aſwaged and the inflammation ceaſed, except it be onely to ſtrengthen the member and keepe it together. But theſe accidentes beyng expelled then uſe your ſpléts & rolling as you did befoze. But if this itching or as they call it in Latyne pruritus with ſanies or matter happeneth, then Hippocrates and Galene uſe to ſoment the place with water temperatly hote. And the later Chirurgians in the like caſe doe applye ſalt water, vnguentum album, vel vnguentum populeon. And bind the member as is afozeſaid. Further moze if to the fractured mēber there happeneth a wound ether at the breaking of the bone, or els made of the Chirurgian, that he maye take oute the ſhivers of the bone moleſting the muſcles, or how ſo euer it doth happen you muſt if there be any flux of blood labour to ſtanch and ſtay the ſame with apt and conuenient remedies ſet out in this booke. If inflammation ſoloweth to the wound it muſt be repelled, If the fleſhe be broſed and contuſed, then ſcarifie the parts ſoz feare that gangrena doth ſolow. And if it ſo happeneth that gangrena doth ſolow, or any deuouring putrefaction, then you muſt cure it as is ſet oute in our method of curing tumours againſt nature, And if none of theſe happeneth then you ſhall



## The fourthe Booke of

Use the like medicines to the cure of the woundes that you do to greene & freshe woundes. Furthermoze if the bones be immoderately dry whereby the growing of callus is hindzed, it shalbe convenient the thyrd or fourth day to foment the place w<sup>th</sup> water; and when as the fleshe do rise in a tumour then cease further to vse fomentation except you do intend to euaporate & digest the multitude of matter, then cease not vntil the tumour goeth away. And if moistnes soloweth in þ fractured membze & leteth the ingendring of callus, you shal put it away with convenient ligatures and roling & things that doth moderatly ericat. Furthermoze you shal giue diligence when callus doth grow that it may be staied lesse that it wax to great: or increased if you think it will not be of convenient bignes. And both these pointes do consist in diet, in the quantitie and qualitie of fomentation, and in conuenient medicynes. Of medicines those are to be vsed whych doe moderatly heate and is made plaster wise. Among which the piched emplaster is not the lest of price, for both doth augment the callus & draweth nourishment to the broken mēber. This is to be vsed when as we thinke to make the callus bigger: but if callus be to big then you must make it lesse w<sup>th</sup> medicines which doe digest & be astringent. Also w<sup>th</sup> cōpressing ligature & a plate of

of lead applied to the callus. Also frictions & fomentations made w<sup>th</sup> oile salt and salt peter, or w<sup>th</sup> salt water made hot. But if the callus be growne to much & that into a hard & stony substance, then you must cut the flesh and w<sup>th</sup> knives & other convenient instrumēt, the callus it to be minished. Also it fortuneth y<sup>e</sup> the callus doth not grow at the accustomed time, which commeth of sondry causes, y<sup>e</sup> is to say ether of immoderate fomentations, or vntimely motion, or thow the multitude of rolling, or for y<sup>e</sup> the body is not sufficient ly nourished, which apereth whē as the mēbze affected is lener & slenderer; then it was naturally. Therefore w<sup>th</sup> al diligence you must loke to thys thing, aplying hote attractiue medicines to y<sup>e</sup> part & cause his diet to be moze larger & causing the patient to imbrazze mirth, & banish heuines and such passions of the mind as may bzing the body into a melancolike disposition. And this shalbe y<sup>e</sup> signe and token y<sup>e</sup> the bones fractured be conglutinated w<sup>th</sup> callus, when as the rollers & thynges swapt about the mēbze do aperce bloody no woūd beinge in the mēbze. Which thing I suppose do spryng when as the substance of callus cometh together & going into the holow parts of y<sup>e</sup> bones some dropes of blōd are thrust out. And thus much shal suffice touching, the methode & way to cure the bones fractured now will I speake in like sort of luxations, and dislocations.

What

What a luxation or dislocation is,  
and of their Differences. Chap. vi.

**O**lder euer requireth that what so euer any do take in hande, that firste or he procedeth further, he do exactly know the nature of the same, which he cannot do otherwise then by definition & description. Therfoze a luxation is the goinge out of a ioynt from his naturall place, whereby the voluntarie motion of the member is hyndred: the Grecians do name this affection *erarthzema*. There are two onely differences of luxations which are taken according to the bignes of the luxation. For if the ioynt be quit oute of his socket and place, then it is properly called a luxation: but if it be but onely a litle removed, it is then not named a luxation but a *wynche* in latyn *Subluxatio*, and *pararthrema* in Greeke. It fortuneth that a ioynt may be fowze maner of wayes dislocated or wynched: that is to saye, forward, backward, higher, and lower. Excepte certayn which cannot be put out of their place, or els but one or two of these wayes. But for as much as there ryseth no great vtilitie by numbyng of suche ioyntes I wpll leaue of to make mention and wpll intreate of the reducyng of ioyntes dislocated into their proper places. And to thys there are fowze intentions to be obserued. The first to byng y ioynt into hys natyue  
and

and prestinate place. The second is the conseruation and keeping the ioynt so put in, that it doth not slippe out agayne. The thyrd is to defend the member from accidentes as dolour inflammation flux of humours and such like. The last scope is to put away those accidentes yf any doe follow: these in their proper places I wyl set out beginning wth the fyrst intention.

**How the luxated ioynte is to be reduced to hys naturall seate and place. Chap. vii.**

**S**eing that the ioynt dislocated and out of his naturall place requireth the reducing againe of the same into his wonted seat: you shall extend the member into diuers parts decently as is required, vntil such time as the space betwixt both bones is empty and boyde. When the bone whych is out of hys place is to be put into the contrary parte from that where as he is & so placed in hys natyue seat, that the emptines of the socket maye agayne be filled with the bone. But this extension and streaching oute of the member must be done tenderly and wth so litle paine as is possible. Neither is there one way of extending and streaching out of the luxated member, so; sometime it must be done with the hands only, some time with bandes, and some time w instruments apt and conuenient for the same, as  
 appea-



The fourthe Booke of  
appeareth in Hippocrates booke De luxatis &  
fractis.

Howe the member luxated & brought  
in the naturall place: may be conser-  
ued and kept in the same. Chap. viii.

**W**hen as the member luxated is brought in  
to his natural place you must wyth al dili-  
gence possible labour to confirme the part  
and kepe the member from slipping out again.  
Wherefore you shall anoint the place w<sup>th</sup> oile of ro-  
ses and then a fine & olde linen cloth wet also in  
oile of roses shall be applied to the mēber which  
done you shall vse stufes & clothes wet in the  
whitte of egges & lay them also on the ioynt. Last  
you shall wet your rollers in water and vineger  
mixed together and rol the member therw<sup>th</sup>. And  
if necessitie doth require you maye furthermoze  
make splents of lether o<sup>r</sup> pasted paper and apply  
the about the ioynt. But giue diligence lest the  
part be to strait bound & rolled for feare of inflā-  
mation. These thinges thus finished laye the  
member in his natural figure & shape. Neyther  
shall you (except some great and ill accident hap-  
pen) lose the roller & open the member, befoze  
the vij. o<sup>r</sup> tenth day at the lest. Auicenna willety  
that in this case you shall not vse hote clothes o<sup>r</sup>  
medicines for feare of flure and inflammation  
but rather some refrigeratiue cerote.

Howe



**How to defende the member from accidents and to put them away if they happen. Chap. ix.**

**T**He member lured beyng reduced to hys natural place and confirmed in the same, & also hauing his perfit shape & figure: there remaineth to defend the same frō ill accidentes, or if such happen or thou be called to the cure to put them away. In the defending the member you shal labour to kepe the member from flux of humours for if there be a flux, then shal there follow both Dolour and inflammation. Therefore strengthen the member with apt & conuenient, medicines set out in diuers parts of the worke. Also let him vse thin and smal diet, purgien, and letting blood: for these do meruailously auert the flux from the affected member. But if it chance that there is already accidentes or thou come to the patient, as dolour or inflammation, then thou shalt not put the member lured into the place befoze thou haste cured the accidentes. Therefore these thinges sufficiently declared as much as the nature of an Enchiridion requireth touchinge the methodicall curinge of woundes bothe in similar and instrumentall members, also of fractures & dislocations I will speake brefely & taken of members and then cease my penne for this present.

The

The methode and waye howe to  
take of a member when it is mozt-  
tified and dede: and of a new pou-  
der by me deuised to staye the  
flux of bloude. Chap. x.

**I** happeneth often tymes that through great  
accidentes which falleth vnto woundes tho-  
row gonneshote, that the hole member com-  
meth to moztification. So that of necessitie it  
must be taken away. The same accidentes al-  
so I haue knowen to chaunce vnto fractured  
members: and many other wayes it hath hap-  
pened the members to come to gangrena and  
sphacelus by diseases of which you shall finde  
in other of my workes a moze ample discours  
where as I intreate properlye of those grekes.  
But for that my whole intention at thys pre-  
sent, is onely to set out the waye how to take of  
cozrupt and moztified members, I will leaue  
them, & go to my purpose. If the legge chaūce to  
come to such cozruption, beneth the knee, that  
of necessitie you are constrayned to take it of  
from the other parte: It is beste to cut it of, one  
good hand byed beneath the knée: So shall the  
partye haue a restinge place for a stylte to go  
vpon: And althoughe it nedeth no moze but to  
take of hys foote onely, yet for as much as the  
rest

rest of his legge shoulde be but a trouble vnto him. It is better to take it of vnder the knee as I haue said befoze, soz the paine will be al onc, and the daunger is lesse in that place. And further you muste take diligent heede that you make your incision aboue the corrupted partes, soz els the flesh or bones being corrupted aboue the place where as you make your incision might cause you to haue a new worke, to the great greife and paine of the pacient, as I haue sene often times. And therfoze if the corruption haue taken the ioynt of the knee so that it can not be cured but that of force the member must be amputated and cut of, then take it of thzee fingers aboue the knee. For in anye wyse take it not of in the iuncter of the knee, soz that is very dangerous and contrary to the opinions of all the auncient wryters: that order you obserue in taking of the leg, y same shal you folow in taking of the arme. But befoze you beginne this worke, you oughte well to consider wpth your selfe, and also to call other expert men to you, to see the pacient, conferring wpth them, whether there be any way to kepe on the member and to cure it by any waye possible, soz it is great blaunde to the arte of Chirurgerie, and also matter in conscience, to take awaye anye member, whych other wayes mighte by arte be cured, although it be both paynesfull and longe

## The fourth Booke of

or it be done. But if there be no other way but that you are constrained to take away the member, or els the partie cannot be cured, and that in proceste of time death must follow, then it is better to cut of a leg or arme, then al the whole bodye should perishe. Now when you intend to take of a leg or an arme, first prepare the bodye, that is to say, if it be ful of ill humours to purge it with conuenient medicines, and also to giue the patient such diet befoze, as is conuenient. That is if the patient be feeble and weake and hath bene longe sicke, then giue him meates of good nourishment to make him stronge, that he may be the more able to suffer the payn when as he shalbe dysmembred, lest he faynte and fall into swonnyng, and thus doyng fyue or syxe dayes you may procede to the taking of, of the member, whyche is done in thys manner, firste you shall make a defensitiue as hereafter foloweth.

Rec. Boli armeni	viiij. vncces.
Farine hordei	iiij. vncces.
Sanguinis draconis	}
Terra Sigillata	
Olibani	i. vncc and a halfe.
Aceti	iiij. vncces.
Albuminis ouorum.	q. s.

Make all these in powder, that are to be made



in ponder, and incorporate them with the benzoin, and whites of egges. When spreade this upon a cloth .iij. fingers broad, that it maye go .ij. or .iij. tymes about the member. This defensiu must be layde on so nere about where as you will take of the member as is possible, so that when you make your insicion, you must cut so ney this defensiu as within the bredth of one straw, or half an inch at the fardest. This defensiu must be very hard rolled aboute the member the night befoze you intend to take it of, and the harder it is rolled the better it is, for the hard rolling stayeth the bloud and maketh that in taking of the member there cometh no great flux. And furthermoze by reason of the hard rolling it letteth both the animall & vitall sprites to passe to the affected part, by meanes whereof it is so assonished, that the pacient feeleth not half so much paine, as he shuld if this were not done. When when as you come to take of the member, you shal prepare all thynges readye that serueth for hys dressinge, and befoze you make anye insicion putte the patient in verye good comfozte, declarynge vnto hym that the feare is muche moze then the payne. And yf you be disposed to take of anye member wythoute actuall Cauterization: you maye aptlye doe it, by potentissall Cauterization:



## The fourthē Booke of

Among which I haue deuised one that by continuall pꝛofe I haue founde profitable and therefore I wyll shew the composition as foloweth.

Rec. Aluminis succarini	}	ana. ij. vnces.
Thuris		
Arsenici		
Calcis viui		

Make them all in fine powder, and put vnto them one pynte of stronge beneiger, and boyle them on the fyze, continually sturrying it, tyll the benegre be consumed, then let it be set in an ouen or in the sunne tyll it be perfytely dry, that you may make it in powder, and when you wil vse it, take of this powder, iij. vnces, of Bole armoniack half an vnce, of Puluis alcamisticus one vnce. Put al these together and make them in very fine powder, and so you haue the powder sublimed and pꝛepared to restraine bloude when you wyll take of a member wythout hote pꝛons. And this medicyne I haue founde to be most sure of al other not only in taking of, of mēbers: But in manye other grefes cured by the art of Surgerie, and I haue named it in al my Bookes Puluerem secretum. And besoze you make your Incision take .iij. vnces of this powder and incorpозate it wyth whytes of egges, then

then make a stufe of towne as large as the  
 ende of the member that you wyll take of. And  
 dyppe it in Veneygre and presse it out agayne.  
 Then spreade your medicine, made wyth the  
 powder and the whyte of Egges, open the same  
 rowe, after strowe a lytle of thys dye powder  
 vpon that, so makinge many lytle bolsters of  
 towne, to lay vpon this great stufe as neede doth  
 requyre, for the better restraynyng the flure of  
 bloude. Now when you haue all thynges pre-  
 pared, wyth bolsters and rollers, and other  
 things thereto pertayning, you shall go to the  
 patient and comfort him as I haue sayd befoze  
 couering his eyes and setting him in some place  
 conuenient, hauing certayne persons meete for  
 the same purpose, to holde hys bodye and hys  
 armes that he let not your operation, and other  
 apte personnes to holde the member that you  
 wil take away. You shall then quickly and re-  
 ly with a sharpe insicion knife, cut the fleshe  
 round about to the bone, wythin halfe an ynch  
 of the defensue, that was befoze layd on. And  
 one thyng you must take heed of: there lyeth  
 an nerue betwyxte the two bones of the legge  
 beneth the knee, which you must cutte a sun-  
 der wyth your insicion kinse, lest that in sawing  
 of the bones, (thys beyng not cut a sonder with  
 your Insicion knyfe as I sayde befoze,) it might  
 be so plucked and tozne with the saw, prouoking

## The fourthe Booke of

great accidents as sineope, spasimus, dolour, yea  
and deth also, which I my self haue often times  
sene . Then when you haue made your insci-  
on perfite, with a fine sawe you shall cut a sun-  
der the bones spedely, and with as little shaking  
of the member as you maye, then lay vpon the  
endes of the bones a lytle lint dypped in oyle of  
Roses and so wrong out again, the oyle beyng  
first made warme . And next lay on your stufe  
prepared as I haue said befoze w<sup>th</sup> your pouder  
& the whit of egges, laying vpo<sup>n</sup> that other stufes  
& bolsters to restrain blood as you se cause: then  
must you roll it acco<sup>r</sup>dyng to art, to kepe on the  
stuf very close that it may the better restrayne  
bloud. Prouided alwayes that ye laye a defen-  
siue aboue the knee, to defend that no humo<sup>r</sup>s  
fall done to the soze place, which defensiue you  
shall euery day kepe wette, with Vneger and  
water . So that you shall not neede often to  
remoue it, In lyke maner you muste wette  
your sy<sup>de</sup> defensiue that was layde vnder the  
knee and so keepe it wette fo<sup>r</sup> the space of syre  
o<sup>r</sup> seuen dayes befoze you remoue it, And fo<sup>r</sup>  
as much as we cannot come a to finger, o<sup>r</sup> a toe  
to take it of with a sawe, as we may do a legge  
o<sup>r</sup> an arme, therefore I haue deuised pinsons to  
pyppe the bone a sunder after that you haue cut  
the fleshe round about to the bone, wyth your  
inscion knyfe, vsynge your pouder wyth the  
whits

whete of an egge fo; the restraining of bloude,  
and other defensyues to defende humours as  
I haue befoze aleged . Now fo; the reste of the  
cure , fyrst we must procede with medicines to  
ease the asker to fall of, and I haue found none  
better then thys.

**Rec.** Terebinthine ij.vnces.  
Butiri recentis iiij.vnces.  
Cere j.vnce and a halfe.  
Vnguenti populeon. viij.vnces.

**Make hereof an vnguent accor-  
ding to arte.**

This vnguent doth not onely louse the as-  
ker, but it ceaseth the great payne , and kepeth  
the member from euyl accidentes which is re-  
quilyte in thys maner of cure . I haue not kno-  
wen twoo die , that hath had there legges oz  
armes taken of with this powder afozesayd, and  
blyng the methode oz waye that I haue here  
befoze declared . And fo; the reste of the cure  
you maye vse medicynes incarnatyue and de-  
siccatyue as you do vse in other woundes, and  
as is required in the arte of Chirurgerye.

**D. iij.**

**Now**

Shewe my brethren soz as muche as that the taking of, of members, is one of the principall thinges that you haue desired of me, and to doe it wythoute actual cateriseng yrons which soze feared the people with the erroz of cauterization o2 burning, as we call it, that many of them rather would die wyth the member on, then to abyd the tirreble fyze by meanes whereof manye people perished.

And other some, that put themselves to surgerie and had their legges o2 armes taken of with whote yrons, many of them perished as you your selues knoweth right wel. And speciallye you that be of the Hospitalles of London: wherefoze I haue deuised and compiled (by the mercyfull helpe of god) thys maner and waye to cure those miserable afflicted people, wythout anye whote yrons o2 great perill of death, as you your selues haue had experience nowe of late tyme, by the dismembrynge and taken of, of manye members, to the great relese and comforte of the pooze people, and to the greate honour of the noble art of Chirurgerie. And I trust also, beyng thus mayntained, it shalbe highly to the gloze of God, to the commendacions of this noble Cittie, where as these Chiritably dedes are done, vnto the pooze afflicted members of Iesus Chyist, in the Hospitalles of London where as daylye these wo2kes of  
mercy



mercy are done:

Now brethren I haue opened vnto you this noble Powder whych I haue inuented to your honour and profite, but chesely for the commoditie of the pooze: Requiring you, for as much as it hath bene your owne desyre, to haue the making of it, to take it in good part and gyue God the chese maker thereof thanks therfore, and vse it well. For I haue hard saye of a late tyme, that there is some, that sayth they haue the same Powder, and maketh a mocke and a gande at it, goyng about to deface me the author thereof for my good wyll and paynesfull diligence. But I warne thee (what so euer thou art that so sayeth) to holde thy tounge wyth shame, for neyther thou nor I had it, but nowe of a late time: Inuented by me and one Maister Peirponte and fyrste put in vse and practise by the Surgians in Sainct Thomas Hospitall in Southwozke. And sence that time put in vse of many moe, both yonge and olde, not onely in takyng of members, but in restayning of bloud both in vayne and arteries, whiche coulde not be done wyth whote yrons, and manye other thynges hathe beene doone wyth thys powder, whych is moze to be merueled at, then to be beleued. And I for my part haue redde no smal number of authours and that of the beste, and yet I neuer coulde finde thys powder in anye of

## The fourthe Booke of

them all . And yf anye other man be able to  
showe it me in anye other authour , then I  
wpll gyue him place , oꝛ els holde thy tounge  
as I haue sayde befoze , soꝛ yf thou oꝛ anye of  
vs all had , had thys pouder , we had shewed  
our selues euil members in a common wealth  
that would suffer so many pooze people to pe-  
rishe in the Hospitals and in many other places  
soꝛ lacke of helpe . And thus bzethren to fertifie  
your request , I haue finished thys Chapter,  
and ended my Booke called the Enchiridion,  
oꝛ a shoꝛte & bziefe manser of curynge , as we  
call it , of woundes , fractures , and dislocati-  
ons. &c. But soꝛ as much as the medicines ther-  
in conteyned are put in the latin tounge, perad-  
venture you wpl meruayll thereat. Being that  
the rest is in the English tounge. But to you my  
bzethren that exerciseth the noble art of Chirur-  
gerye, I aunswere , I trust I haue done it both  
soꝛ your commodity & also soꝛ your profit. There  
are two speciall causes why they are put in the  
latin tounge, the fyꝛst cause is soꝛ that we cannot  
aptly giue all those simples Englyshe names,  
and therfoze soꝛ as muche as herbes and other  
simples are called by dyuers names , accoꝛ-  
dyng to the vse of the countrye in oure Eng-  
lyshe tounge , that they growe in: therefore  
yf I shoulde haue putts them in anye of these  
Englyshes

Englyshes aforesayde , an other parte of our countrye should not haue vnderstande it . And furthermoze yf I shoulde haue put parte in Englyshe and parte in Latyne , it shoulde haue bene a defasyng of all the whole composition of medicynes . The seconde cause is, that I haue done it for your commoditie , for it shall cause you to vnderstande your recytes or medicynes in the Latyne tounge , not onely by vse of compositions but the symples also , for there is no medicine sette forth in this Booke , but yf ye goe to anye Pottercarpe he wyll make it you presentlye , and declare vnto you euerye Symple thereof , whyche shall cause thee in short tyme , yf thou be dilygent to vnderstande the whole scope in makynge of medicynes oute of anye Authour in the Latin tounge . And for you my brethren in London , thys shall be to you a moze commoditie , for it maye moue you euerye lecture daye , to put a question for one medycyne, so that wythin shorte tyme , you shall gather the whole knowledge bothe of symples and compoundes , and also apte tearmes pertaynyng to the arte of Surgerye in the Latin tounge , in whyche the moste parte of the arte is wryttinge.

And hereafter yf god spare me lyfe , and thys  
ing

## The fourthe Booke of

my simple woꝝkes taken in good part, I shall not seace, but set foꝝthe vnto you one herball wyth the trew pꝛctures of herbes and trees, wyth manye other simples appertaynyng to the arte of Chirurgerie: with so manye names, as well in Englyshe as in all other toungeſ that I can learne oꝝ vnderſtande, wyth their vertues, pꝛoperties, and places where they growe in. &c. Whiche booke maye be ſuche a doctrine that you ſhall in ſhoꝝte tyme vnderſtand all theſe ſimples conteyned in thys boke and many moe, not onely theyꝝ qualities, but all theyꝝ hydden pꝛoperties whyche hath bene founde out by long experience. And al though thys lyttle Booke named the Enchiridion is verye bꝛiefe and ſhoꝝt, yet ſhall you fynd therein contayned, a true and ryght methode of curyng accoꝝdyng to both olde and newe wyters wyth the whole ſcope and intentions curyꝝtue howe to apply your medicines, when to applye them, to what place they oughte to be applyed, and at what tyme. And although manye Surgians haue good medycines that may ſerue foꝝ the lyke purpoſes of theſe that I haue made mention of befoꝝe, yet not wythſtandyng foꝝ an example I haue ſette foꝝthe theſe, that ye maye the better vnderſtande the true methode and waye of curyng by the nature and operation of them.

Thus



Thus I take my leaue of you deare brethren in  
 Iesus Christ wishing vnto you the perfitt know  
 ledge of thys noble arte , whych is onely the  
 gyfte of the holy ghost , and you well to vse it,  
 that almyghtye God maye worke wyth you to  
 the comfozte of the diseased oz hurt person : let  
 vs all pray, lord increase our knowledge in  
 all vertuous artes and science, that we  
 s. w<sup>l</sup> vse them , to the glory of God, to  
 whom be all honour and prayse  
 woꝛld without end,

Thus endeth the fourthe and laste  
 booke of the Enchiridion of Sur-  
 gery compiled by Thomas  
 Gale Master in Chirurgery.

F I N I S.



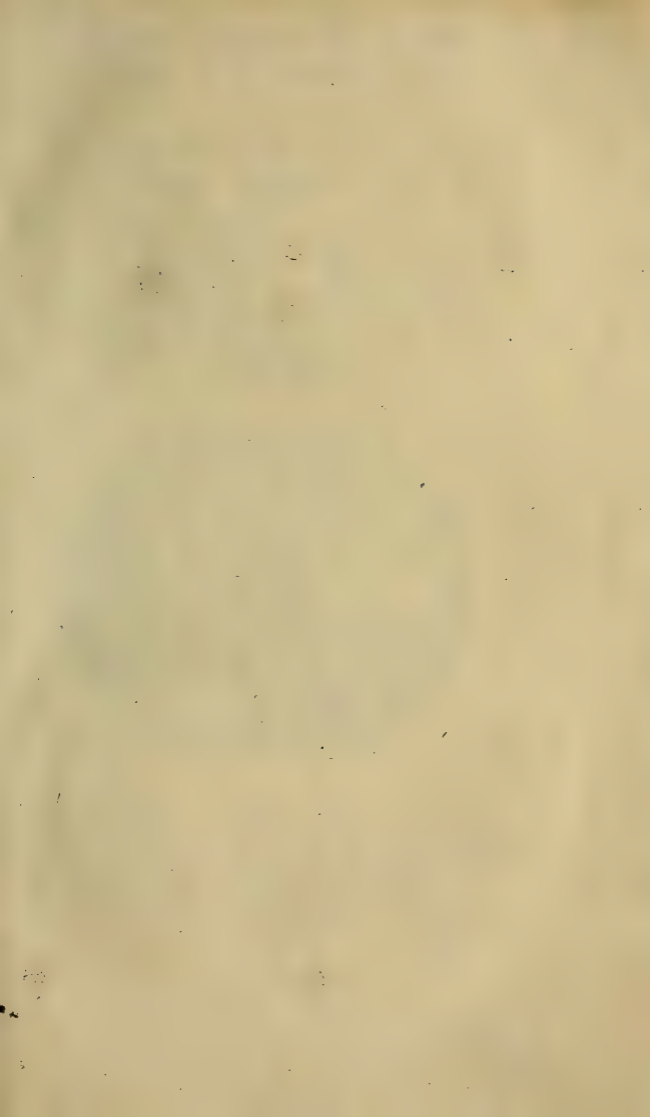


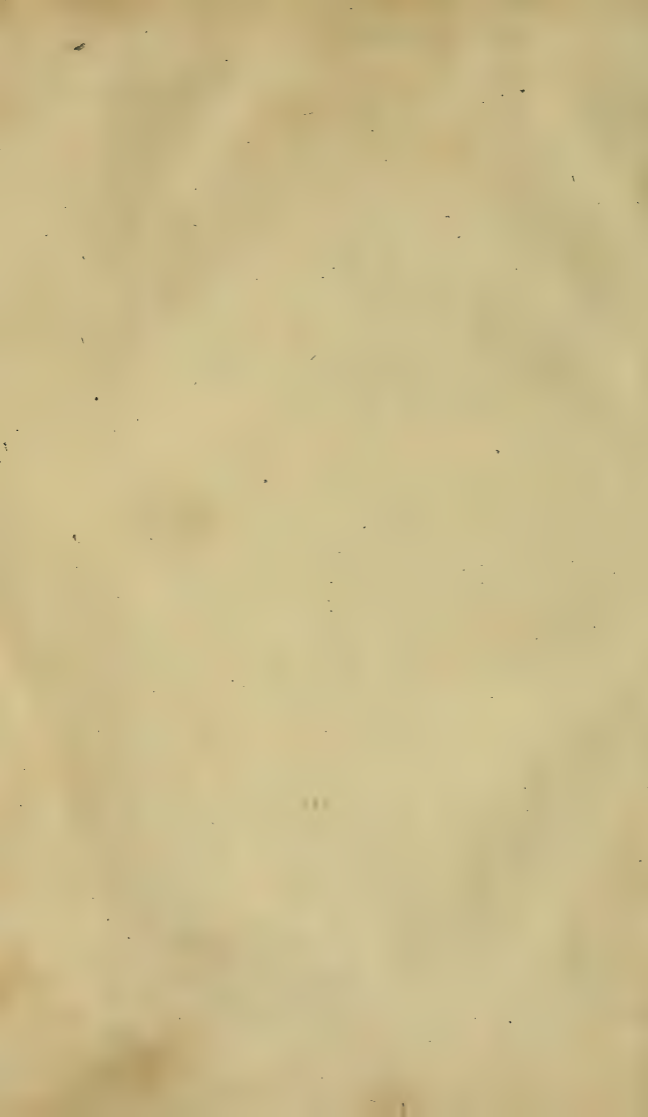
The first part of the book is devoted to a general  
 introduction of the subject, and to a discussion of  
 the various methods which have been employed  
 in the study of the history of the human mind.  
 The second part is devoted to a detailed  
 account of the history of the human mind  
 from the earliest times to the present day.  
 The third part is devoted to a discussion of  
 the various theories which have been advanced  
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The book is written in a clear and concise  
 style, and is well illustrated with numerous  
 examples and illustrations. It is a valuable  
 contribution to the study of the history of the  
 human mind, and is highly recommended  
 to all students of the subject.

THE UNIVERSITY OF CHICAGO







# An excellent

Treatise of vvounds made vvith Gonneshot,  
In which is confuted bothe the grosse  
errour of Jerome Brunswicke, John Vigo,  
Alfonse Ferrus, and others: in that they make the  
wounde venemous, whiche commeth through the  
common poulder and hottes: And also there is  
set out a perfect and trew methode of curyng  
these woundes. Newly compiled and pu-  
blished by Thomas Gale Maister  
in Chirurgie.



PRINTED AT LON-  
don by Rouland Hall, for  
Thomas Gale.

1563.

ANALYSIS OF



1811



**M**icrocosmos (whome Man we call)  
of two right noble partes is made  
The soule, whose lyfe is eternall,  
and body eke which hence must vade.

This last part, doth the fyrst contayne  
so long as it in health indure:  
Vnryll Sicknes, and all her trayne  
doth proclame warre, and death procure.

Nowe Sicknes quite for to expell  
A pollo haue the arte out set:  
What arte, lo maister Gale doth tell,  
Wherby Sicknes forse we maye let.

The Canon shotte (dreadfull and fell  
lyke thonder boltes and fyry flame)  
Howe to remoue the wayes he tell  
in this treatise of worthy fame.

His name of right, Gale we maye call,  
for Gala, mylke doth signifie:  
And as mylke noryshe aboue all,  
so doth this Gale right perfectly.

His sugred mylke of learning sweete,  
doth the mynde foster and eke feede:  
Showing the way that is most meete  
Microsmos to helpe at neede.

Nowe, what rewarde for him is dewe  
that for mans cause doth such thyngs showe:  
The wounded man shalbe iudge trewe,  
and learned heades which it doth knowe.

John Feild Chirurgian.

1563



THOMAS GALVVS CHIRVRGVVS  
ANGLVVS ÆTATIS SVÆ 56

# Thomas Gale Mai-

ster in Chirurgie vnto the frendly  
Readers.

**I** Am not ignorant (frendly reader) but many, yea the greater sorte wyll not a lytle merueyle that I shoulde go about to ouerthrowe that, whiche for a manifest trueth of no smale tyme hath bene receyued, and embraced: yea and not onely receyued, but also with the penes of diuers (otherwise well learned) confirmed and established. We thinke I heare them saye, what kynde of selouoe is this? What a Paradoxe hath he published? Is his knowledge and experience passing those famous writers, that haue left so noble workes behynde them? To all which I answer, that the matter must be tryed, iudged, and determined, not by antiquitie only, not by authoritie, but by reason and trueth. And yet I wyll attribute as muche to their authorities,

Aa.iii. ritie,

rities, as some other will, knowyng  
my selfe farre vnable to matche with  
any of them. And although they be  
suche as I haue profited by, yet the  
trueth is to be preferred before their  
authorities. Wherfore I beseeche thee  
louing Reader, not to condemne me,  
before thou hast read my worke, and  
wayed the forse of my arguementes  
wherewith I do mainteyne my asser-  
tion: and conferre them indifferently  
with my aduersaries, & let the touche  
stone be Ratio et Experientia, so I do not  
mistrust, but at the length this my  
opinion shal not seeme so straung and  
new, as trew and worthy to be recey-  
ued of other. Thus I bydde thee well  
to fare, and fauour my doyngs (which  
for thy sake I take in hand.) as I  
wishe thy knowledge in this  
my profession. At my house  
in London the .xxvi. Daye  
of Iulye.

# The proposition or Thema.

The vsuall Sonnepouder is not venomous, nother the shotte of such hotenesse as is able to warme the fleshe, much lesse to make an ascar.

Chap. i.

**B**Efore I do any thynge intreate of the cure of these woundes with Sonneshotte: I wyll somewhat searche out the nature of the vsuall pouder and shotte, whome manye Surgyans (other wyse learned) haue affirmed to be venomous, and so consequently the wound made with that pouder and shotte, to haue the cure of venomed woundes. And here I woulde no man should iudge that I deny there may be Sonnepouder venomous: but my talke shall not further extende then to the vsuall pouder, made of Sulphur, Saltpeter, & Cole. And that the thing folowing may be the moze eident and playne, it is requisite to consider what that is which is called venome, what the vsuall Sonnepouder is, and what the shotte d;yuen violently fo;the with the pouder can doe.

Aa.iiij.

As



As touching the first, what venome or poyson  
 shoulde be (which is called in Latine Venenū,  
 and in Greeke Pharmacon, it is no other thyng  
 then res non naturalis, a thyng not naturall,  
 whiche being applyed to mans body any kynde  
 of waye, either inwardly or outwardly, through  
 his maligne qualitic, proprietie, or bothe: doeth  
 corrupt & destroy the same. Now then seeing you  
 know what venome is, let vs diligently cōsider  
 whether the vsual Connepowder doth answer  
 to this definition; if not, then certainly it is not  
 venomous as diuers personnes haue hetherto  
 dreamed. And so; because it is compounded of  
 simples ( Sulphure, Saltpeter, and cole ) it is  
 requisite to set out what these three are, so; so  
 shall we the moore assuredly coniecture what  
 the compounde is, & whether it bee venomous  
 or not. And herein so; the perfect knowledge of  
 these simples, we wyll reso;te onely to the au-  
 thorities of Dioscorides & Galene, the princi-  
 pall wy;ters of this matter: least in rehearsing  
 all the authorities of those whiche wy;te of the  
 nature of simples, the worke my;ghte growe  
 greater then I haue determined. Then if these  
 wy;ters fauours our opinion, we wyll further  
 wade & consider what daylyc experience sayeth  
 hereto: or whether that there resulte a venome,  
 the simples beyng mixed; or elles that throughe  
 alteration

alteration in tyme of the Hotte , it tourneth to  
 venome. I thynke these be the principall argu-  
 ments they haue to maineteyne theyr sonde  
 fantasie. And nowe touchinge the authoritie of  
 the auncient wyters , I wyll begynne wyth  
 Dioscorides , who in the fiste Booke.lxxxij.  
 Chapter , wyrteth of Sulphure in this maner:  
 Sulphure viue is thought the best , whiche is  
 called Appzon , shyninge lyke a glowe worne,  
 and nothing stonie. And in generall that Sul-  
 phure is allowed whiche hath not tasted of fyre,  
 waringe greene & fatte. There is great store of  
 it growng in Melo & Lipara . The foresayde  
 Sulphur , doeth heate, dissolve, & concocte spe-  
 dely: It is good agaynst the cough, short brythe,  
 and purulent excretion taken in an Egge , or  
 vsing the fume of it. And the sauour of the same  
 burnt bryngeth out the chylde in byrthe tyme,  
 it doeth take awaye leproye , Mentagra , & Sca-  
 brous vngues , mixed with Turpentyne: but  
 tempered with Venigre it is of force agaynst  
 the leprie, & taketh awaye vitiliginem , it hea-  
 leth the stinge of the Scorpion , Resine beyng  
 put to it . And with Vnegr it is good bothe  
 agaynst the woundes of Draconis marini , &  
 also of the Scorpion , with Saltpeter it taketh  
 awaye the ichinge of the bodye , it helpeth the  
 Iandiers sprinckled on his forehead , or elles  
 taken in a rare Egge, it profiteth muche in di-

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» Stillation, & stayeth sweatynge, wyth water and  
» Saltpeter it is good for those whyche haue the  
» Goute, the member beyng washed in the same.  
» It helpeth the thickenes or rather difficultie of  
» hearinge, the fume of it being receiued by some  
» hollow Pype: it rayseth those whyche are called  
» Lethargos, it stayeth the flure of bloode. Wro-  
» sed eares beyng anoynted wyth it mired wyth  
» wyne and honnye are by it cured. These be the  
» woordes of Dioscorides touchyng Sulphure.  
» Hys mynde in effecte concernynge Saltpeter  
» in the fyfte Booke, lxxxix. Chapter, are these  
» Nitrum is the beste which is lyghte, of Rose or  
» whyte colour, full of holes lyke to a sponge,  
» such is brought from Bunys. It byngeth out  
» humours fixed in the deepe partes. The spume  
» of Nitre is Judged best, which is most lyghte,  
» cryable, in colour almoste Purple, or spumouce  
» and bytinge, suche is broughte out of Philadel-  
» phia in Lydea. The seconde of Egypt. Also in  
» Magnesia. Bothe Nitrum and eke his spume,  
» hath the strength and vition of Salte. Further-  
» more Nitrum helpeth the Collicke if it bee ta-  
» ken with cummyne in hydromell, or new wyne  
» boyled, or any thyng which doeth losen wynde,  
» as Rue or Dyll. It is also vsed in feuers, to an-  
» noynt them befoze the fit suspected. It is mired  
» with emplasters, which do extract and dissolve,  
» it doeth extenuate & put awaye the leprie, with  
» warme

warme water or wyne, it doth alway the noyse of the eares, inflations & perulentnes, the stynnes of the same it doeth purge and cleanse, tempered with Vinegre inskilled & put in, it helpeth the byting of dogges put with the grese of an asse or swine, it doeth open felons mixed with Kesyne, Terebinthine, and in the drop: sic rubbing the skinne with a figge: it causeth clearenesse of sight tempered with honnye, and the venome of Mushrums being drunke with Posca, or elles with water if they haue bene bitten with buprestis, also to those whiche haue drunk Bulles blood with Laserpittum, & it is to be geuen also to them which can not taste theyr meate. It is to be vsed in opisthotinis remissionibus et luxatis cum cerato, and in resolution of the tongue mixed with bread. Some doe burne it on the coles putting vnder a new tesse or pot vntil it ware red hote: thus much also out of Dioscorides touching Nitrum. Powe let vs heare Galene, who speaketh of Sulphur in this maner. Al kinds of sulphur (sayth he) hath a power attractiue, & is of hote temperament, & of subtile substance, in so much as it resist the poison of many venomous beasts: so I oftē times vsed it against the venome of turtur marinus, & Draco. And when I had taught it certein fishermen, I after a short tyme returning, they mercifully commended this medicine to me.

The



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„ The vse of it is, that beyng dꝛyed, strowed on  
„ the wounde, & also tempered with spittle, for  
„ when I had excogitated these thynges, I found  
„ them trewe by experience. In lyke sort it woꝝ  
„ keth beyng mixed with brine: for I taught the  
„ fishers suche medicines as myghte redilꝛe bee  
„ prepared, and I sayde they myghte aptly vse it  
„ bothe with olde oyle, & honnye, & turpentyne,  
„ and suerelye experience shewed all these so to  
„ bee. Also I haue not a fewe tymes (with thys  
„ medicine of Sulphure mixed with Turpen-  
„ tyne) healed Scabbes, Mentagra, & Lepꝛe,  
„ so: it cleanseth all suche diseases, & doeth not  
„ repell them into the inward parts, where as di-  
„ uers other medicines whiche cureth these sic-  
„ kenneses haue a mixed pꝛopertie, that is to  
„ saye, they doe bothe digest & also dꝛꝛue backe.

Lib. eodem Hetherto Galene of Sulphure. Nowe let vs  
heare him of Pitrum, called with vs vsuallye  
Saltpeter, Pitrum (sayeth he) is in a meane in  
„ strengthe betwixte Aphronitrum and Salte:  
„ But beyng combuste, it goeth nearer the na-  
„ ture of Aphronitrum, so: by vltion it is made of  
„ moore subtiler and thynne partes. Therefore  
„ it doeth dꝛꝛue and digest. And if it be taken in-  
„ wardlye, it doeth cutte and extenuate grosse  
„ and lynnye humours, muche moore then  
„ Salte: Aphronitrum excepte great necessitie  
„ infoꝝseth, is not to bee taken inwardlye, be-  
cause



cause it hurteth the stomacke , and doeth exte-  
 nuate moore then Pitrum . Truly a certayne  
 rustical man vsed Pitrum as a remedy against  
 suffocation oꝝ choking , when anye had eaten  
 Moushromes (they cal them in Latyne fungos)  
 and it euer profited hym . And I my selfe haue  
 accustomed to vse Pitrum bothe combuste and  
 crude, & chiefly the spume of it, in the lyke effe-  
 ctes. Thus much out of Galene also touchyng  
 the qualities of Pitrum . The lyke wordes  
 bothe of Sulphure and Pitrum hath Aetius  
 well neare . How by theyꝝ authoritties you  
 maye easely iudge that neyther these two are  
 corrupters of mannes bodye, eyther inwardlye  
 taken, oꝝ elles outwardlye applyed. So that  
 they nothyng agree with the definition of ve-  
 nome. Yea, Dioscorides, Galene, and Aetius,  
 founde Sulphure and Pitrum so farre from  
 any venomous qualitie , that they vsed them  
 as approued and excellent medicines agaynst  
 venome . Therefore nother John de Vigo,  
 Alphonse, noꝝ Brunswicke, shall bee able by  
 any approued authour, olde oꝝ newe, to proue  
 that the simples ( entrynge into the compositi-  
 on of the vsuall powder ) are venomous, ex-  
 cepte they wyll affirme the Cole to bee ve-  
 nome, whiche were to ridiculous, seyng that  
 women with chyld, oꝝ those whyche labour  
 with that sickennesse whiche is called Pica,  
 and

and also childzen dayly eate coles without danger. Furthermore daylye experience sheweth the vse of Sulphure to be profitable. For it is a common practise to geue it in mylke to chyl-  
 dzen bered with wormes. And as for gonnepou-  
 der it selfe, in defect of other medicines, I haue  
 put of it in these woundes, to dye & excitate, to  
 the great comfort of the Patient. And therefore  
 it is not in mixture & composition venomous, but  
 medicinable, & hath in hym the vertues ab-  
 sterſiue & desiccatiue. Neyther in those that are  
 wounded with shotte of this pouder doe you see  
 anye of those accidents to folowe, whiche are as  
 inseperable in venomous shotte. Although Al-  
 phonſus Ferris, woulde that putrefaction,  
 corrosion, vlceration, & corruption, shoulde bee  
 the proper accidentes in venomous woundes.  
 As who shoulde saye, that perspiration letted of  
 hote & moyſte humours, there folowed not pu-  
 trification, or that there appeared not in vlcers  
 corrosion, called thereof vlcera phagedenica.  
 Howe aptly therefore doeth he applic these as  
 proper accidentes in venomous woundes, when  
 they are founde in mooze then an hundred dis-  
 eases, I doe make him selfe Judge. Further-  
 more the cure it selfe of these woundes, agreeth  
 with those that bee contused & brysed, without  
 the addition of any medicine or alexipharma-  
 con against venome; yea & Alfonso himself did

little consider his assertiō, when in the curatiō of woundes made with **G**onneshot, he forgetteth to vse remedies against venome, whiche should be his chiefe and first scope, if the wound were as he affirmeth. So that it is moze cleare then midday that the pouder doeth not receyue any venome thzough the syze in shotynge, and that also is euident in those that are burnte with pouder, so; there appeareth no mencion of venome in them. And the burnyng is easely cured & that with light medicines. Another argument that **A**lfonse bryngeth, is that the compounde medicine commeth to the fourth degre in heate, and therefore is venomous, & so consequently the hote, and therefore the wounde with it made. But let vs see I praye you the force of this argument: Sulphur is hote in the iij. degre, & saltpeter hote in the ende of the .ij. degre. Nowe in the cōposition there is put one part of sulphur, x. parts of saltpeter, & one parte of cole, the cole is colde & drye, & therefore addeth not heate to the composition, neither the x. parts of nitrum, being but in the ij. degre hote. How then should this pouder be hote in v. iij. degre? as so; the like example, if you put to one part of boyling water. x. parts of water but half so hote, will it abate the heate of the one part or make it greater? I suppose none is so rude to cōfesse that it will increase the hotenes of the one part.

But

But in the waye of disputation I wyll graunte  
 this absurditie. What than? Wyll he conclude  
 all thyngs that are in the fourth degree whote,  
 to bee therfore venomous? Then surely  
 whote yron, fyre, burnynge coles, Pepper, Pe-  
 litorie, and a greate number of healthfull sim-  
 ples, shoulde bee numbred amonge venomes.  
 True it is that venomes are deadlye in them-  
 selues. But it doeth not therfore folowe that  
 what so is deadly that same is also venemous;  
 this is no true conuersion. But leauynge thys  
 as a thyng to manifest to make moze wordes  
 of: we wyll consider whether the hotte receyue  
 suche heate that it can make an asker in the  
 wounde as they affirme. Surely I in the  
 warres haue asked diuers wounded Souldi-  
 ours what heate they perceyued in the tyme of  
 the percinge of the hotte? Who all answered  
 they felte no heate, but a certayne contusion,  
 and I my selfe haue presentlye taken vp the  
 Pellet when it hath falne at the marke, and  
 felte no heate at all to bee made accompte of.  
 But that you shall perfectlye vnderstande and  
 be Judge your selfe in this case. Hange a bagge  
 full of Connepouder on a place convenient: &  
 than stand so far of as your peece wil shote lea-  
 uell, and shute at the same, and you shall see  
 the Connepouder to bee no mooze set on fyre  
 with the heate of the stone, then if you cast a  
 colde



colde stone at it. But saye they how happeneth  
it then that there is an asker in such woundes?  
For ther is neuer asker but cometh of Cauteri-  
zation either actual or potentiall. To this I an-  
swere, that it is no asker, for then it were not  
possible there shoulde be fluxe of bloode in these  
wounds. For Galene sayeth, thynges adurent  
and burnyng doeth stape and staunche bloode.  
But you wyll repleye, and saye there cometh  
no great fluxe of blood. To whiche I answer,  
the cause of that is, the great contusion whiche  
repelleth the bloode & hath so dyped the parte  
wounded, in thrustinge the bloode to the other  
partes that there is the lesse fluxe. But this is  
moste euident, that there euer foloweth fluxe  
more or lesse: and therefore it is no asker but  
contused flesh. This might also be a reason ma-  
nifest to the senses, that yf the Bellet bee a cau-  
terise (whych of force it muste be, if it doe make  
an asker) how happeneth it, that it burneth not  
garmentes when it perleth them fyrste, and  
then the bodye? Saye you shall neyther see,  
neyther smell anye token of adustition or bur-  
nyng: where as if the shotte had no more  
heate then a lytle sparke of fyre, it shoulde in  
lyke case easely burne the garmentes.

But I thynke these argumentes sufficient.  
Therefore seing y neyther by authoritie of any  
learned authour, nether by experience, neyther



yet in composition & mixture: And to conclude  
 nother in the shooting the vsuall gonne powder is  
 founde to haue any venomous qualitie, or the  
 shotte anye suche heate as is able to make an  
 asker: Let them cease (I praye them) henceforth  
 their founde opinion, & not obstinately persist in  
 their errour conceyued. Seynge that the sences  
 doth otherwyse iudge: and not bee ashamed to  
 embrace a truth, and from henceforth confesse  
 the vsuall powder not venomous, nor the  
 shotte of suche heate that can make an asker.

Which if they doe, they shall not be tormented  
 with suche care to take the fyre (as they com-  
 monly call it) out of the woande. But conside-  
 ringe that thys woande made with Gunne-  
 shotte, is to bee numbred not amonge greene  
 woundes, not amonge venomous, but onelye  
 among those which are called contused, brossed,  
 or crushed woundes: They shall wyth greate  
 gayne to the wounded man, and muche profite  
 and same to them selues, haue as prosperous  
 successe in theyre cures, as some of them haue

suskeyned shame and reproche. But nowe  
 to the generall cure of those woundes

made wyth Gunne-

shotte.

The generall Methode and way  
to heale suche woundes as are  
made with gonneshot.

Chapter. ii.

**A**Dwe seynge (as I suppose) I have suf-  
ficiently proued the pouder noz shotte  
venomous: it is conuenient to sholue  
the methodicall cure of these kyndes of wound-  
des. And there are two intentions properlye  
hercto belongynge. The one is to deliuer the  
wounde of all such thynges as are not agreing  
to nature: The other is restozing of such thyngs  
as are losse and perished. I call thynges not  
agreing with nature, not onely shotte, iron,  
splintes, or wyuers of wood, cloth, dust, oyle, or  
suche lyke: But also the cloddes of bloode, mat-  
ter, broiled fleshe, and such lyke as haue no socie-  
tie with nature. The waye howe and in what  
sozte these things are to be remoued, you shall  
fynde in the .v. Chap. of the first booke of my  
Enchiridion. The restozing of that whiche is  
lost is properlye the office of nature, as to ingen-  
der fleshe, bloode, and suche lyke partes as are  
to be engendred. Notwithstanding the Surgi-  
an herein is natures Mynistter, and shall la-  
bour to byynge the parte to hys ryghte tempe-  
rature: And it so reduced to conserue it in the  
same estate,

Wb. ij. And

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And although in the .vi. Chap. of my Enchiridion, I haue showed a generall methode of curynge contused woundes: yet I wyll not refuse for the helpe of the inerpert, to set out in thys place a moze ample and large maner and waye of woꝝkynge. Therefore the cure of these kynde of woundes, is to remoue thynges fired in the woundes with instrumentes there to conuenient. As Crowe billes, Goose billes, Terribilles, Pipers, or Tonges. And then to doe your indeuour to cure this wounde, as you woulde doe contused and bꝛosed woundes. And for because the bꝛosed fleshe muste of force be taken awaye, and that with so muche expedition as you conuenientlye maye, wythoute sharpe and byting medicines: Therefore you shall to thys wounde contused take of pꝛecipitate Mercurye Dragme, j. or accoꝝdynge as you shall see cause, and mixe it wyth simple oyle, or oyle of Roses, or with Butter, or freshe Barowes grease, and laye it to the contused places. Bartholomeus Maggius an excellent Chirurgian, in these woundes after þe thyngs fired in, be remoued, the flure of blood stayed, and the wounde cleansed, vseth to put into the wounde, of hys oyle one droppe, vnto which oyle he geueth great commendation, in all contused woundes, and the discription of it is as foloweth.

Rec.

Rec. Resinæ abiectinæ, v. vnce.  
 Olei rosacei, ij. vnce.  
 Sem. Hypericonis, v. dragmes.  
 Sem. Momordicæ, iij. dragmes.

The seedes shall bee brosed, and put in a  
 duple vessell with the oyles, and let them boyle  
 halfe an houre. Then strayne them, and keepe  
 them to thy vse. This oyle doeth allwaie do-  
 loure and payne, it doeth concocte and digest,  
 and p̄serueth the sounde fleshe from corrup-  
 tion and putrifaction. There are also other  
 medicines apte and conueniente for these  
 woundes, but I wylle repete one which is sin-  
 gular, and as I myghte terme it merueylous:  
 For it seperateth the contused, swellynge, and  
 putrified fleshe, and that without dolour or  
 payne. And furthermore it so concocteth and  
 digesteth, that you shall not perceyue anye  
 kynde of cruditie in the wounde, and thys me-  
 dicine is called vnguentum Egyptiacum.

Wherefore I wylle that the Surgian doeth  
 both dyppe hys tentes therein, & also laye it on  
 his splegeantes. For in two dayes or thzee at  
 the moste, yea in great contused woundes, it  
 worketh his effect. And here by the waye I  
 muste put the Surgian in memorie, that hys  
 tentes bee not to bygge or longe, that they bee



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not rough and hard , for the bigge tent doth extend the member , the longe doth pricke and induce dolour: the hard and rough doth as it were teare the fleshe , Let the tentes and splogeants therefore be made of olde and fine linnen cloth, that it bringeth not paine to the affected parte. After the contused fleshe be remoued by the vse of your Egipciacum : then applyc to the place things that will mundifie, and moderatly dry, as Hony of Roses tempered with the flower of Barlie mealle , or Beane flower , vnto which you maye adde, Aristolochia rotunda , Centaurium minus, Euphorbium , Aloes , Turpentine , Frankensence , Plantaine in powder or iuyce , flowers of Pomgranates , Cipresse nuttes , and such lyke accordyng as the nature of the part , and time of the yeare doth require, And here I speake not either of purging, letting of bloud , scarifieng, and boryng , more then to admonyshe them , that these are necessarye and must of force be vsed in these wounds: Because I would the surgian should not rashly attempt herein anye thyng , for the greate peril that maye folowe . But rather vse the discrete counsell of the learned Phisition . Noether in those woundes whyche are greate and perillous wyth hotte , I would haue them strait wayes to dysmember the patiente ( as many  
raische



raische Emperickes nowe in these dayes vse to doe) excepte Sphacelous or gangrena haue vtterly mortified the part. For I my selfe haue cured a certayne Shouldeyour who was shotte wyth a base, throughe the thyghe: and there was moze then thre fyngers bredthe taken a waye of the bone in length, wyth the shotte, and yet (God be thanked) throughe diligence and payne the patiente was restozed to health: and hath the persyte vse of the legge wythoute anye payne or græse moze then that it is shorter then the other. And thus muche touching woundes of Gonneshotte in generall. The reste where as the perticuler cure varieth from the generall methode sette oute accoꝝdyng to the part wounded, you shall haue in their proper places folowng.

### Of a simple wounde in the head made with gonshot. Chap.iii.

**I**f woundes made in the heade wyth gonneshotte you shall diligentlly consider whether the wounde be simple or that it be compounde. For accoꝝdyng to their diuersitye, the intentions curatyue do much varye and chaunge.

Wb.iiij.

And

And so; because there maye be these two kindes of woundes , I wyll severallye of them entreate, begynnynge with a simple wounde first. Therefore if the wounde bee simple , the cure is easier , and wythout daunger : If that the Patient haue not a bodye replete wyth euyl Iuse , o; haue tasted of that contagion , whiche Maister Doctour Cynyngham in my iudgement doeth of all other mooste aptlye geue to name, Chamelcontiasis ( vulgarlye it is called morbus Gallicus) as appeareth by hys booke wyritten on the same . In whyche he sheweth the errors of such as haue hetherto hereof wyten : and setteth oute a most perfecte methode, and newe way of curing, without fumes, gualcum, vnguentes recepying into there composition Hydrargyron, o; such lyke . But nowe to that from whence we are digressed . If the bodye of the wounded pacyente be affected as is aforesayde : although the wounde be but small and simple, yet most trifyng woundes in such bodies are not cured wythout much diligence . Therefore in such bodies you muste labour to purge the ill Iuse , o; in Chamelcontiasis, bothe to let bloode, purge, and sweete, and by dyet , and thynges conuenient rectifie the bodye and p;ncipall members of the same. So shall the cure of the wounde bee mooze spedye,

and

and also prosperous . But nowe to the trewe  
cure of suche woundes as are called simple.

Fyrst let the heare be shaven round aboute, af-  
ter apply this vnguent folowynge.

Rec. Precipitati optimi, ij. dragmes.  
Butyri salis experti, } ana. dragme. j. se.  
Olei rosarum, }  
Crocī, ij. graines.

Mixe these and make an vnguent whiche you  
shall laye on your splegeants beyng made of  
softe linnen clothe, and applye it to the wound.  
Then you shall laye on the wounde also  
Bolus armenius tempered wyth oyle of Ro-  
ses and the whyte of an Egge , lyke an vn-  
guent, to defende the parte from accidents.  
And this shall suffice for the fyrste daye : You  
maye also at the begynnyng, vse in steade of  
the seconde vnguent , thys comfoztable cata-  
plasmē folowynge.

Rec. Oleorum myrtillorum, } ana. ij. vncc.  
Rosarum, }

℞b. b.

℞a.

A treatise of

Baulastiarū, } ana.j.vnce.  
Rosarum rub }  
Boli armeni, } ana.j.dragme.  
Sanguinis draconis, }  
Myrrhæ, halfe a dragme.

Make of all this a cataplasme accorbynge to arte. The second daye you shall vse some medicine that both doeth digest, and also moderately drye the wounde of whiche sozte this is one.

Rec. Terebinthinæ lotæ, j.vnce.  
Mellis rosarum, ij.vnce.  
Butyri salis experti, iij.dragmes.  
Farinæ hordei, }  
Aristolochiæ rotundæ, } ana.j. dragme.  
Radiciis ireos, }  
Aloes, halfe a dragme.

Mixe these and make all in an vnguent, and vse this vntyll suche tyme as there appeare signes of concoction in the wounde, at whych tyme, you shall no moze vse Butter in the vnguent, but in steede hereof mixe with it this powder solo wyngge.

Rec.

Rec. Sarcocollæ,                   j. dragme.  
 Corticū radicis papaueris,   half a dragme.  
 Farinæ orobi,                    } ana. dragme. j. sc.  
 Myrrha,

Make this in powder, and temper it with the other vnguent. And vse this vntyll the wounde be perfectly cured. And this is the cure of a simple wounde in the head,

Of woundes compounde, which  
 chaunce in the head throughe  
 Hotte. Chap. iiii.

**I**f the cure of compounde woundes of the head, you must first of all (because you maye the suerer iugde and discerne) vse insition and make Cranium bare: the foyme of cutting most apt, is to make it in foyme of two right lines crossing themselues in the middes: as in the picture appeareth. After which insition made, you must with some instrument sharpe and flatte, rayse the skynne and fleshe from Cranium. And yf you see anye shotte or peece of bone, which maye easely be taken out: you maye doe it with some conuenient instrument.

But



But if it wyll not withoute difficultie be taken awaye, then weate your stuphes in astringent wyne and benegre mixed wyth Bole armenike, and sanguinis draconis: and laye it to the wounde . The nexte daye folowynge you shall vse this receipt next insuing foure or fiue dayes, for feare of inflammation to folowe.

Rec. Boli armeni, ij.vnce.  
 Albumenu ouorum, 2.  
 Olei rosacci omphacitis, iij.vnce.  
 Croci, iij.graines. misce.

When you maye verye well vse thys digestive folowynge so longe as shall bee thoughte conuenient, and that vntyll the thyng eired wyll easely be taken out.

Rec. Terebinthinæ lotæ in vino, iij.vnce.  
 Quorum vitella, nu. 2.  
 Olei rosati, ij.vnce.  
 Aloes, ij.scruples.  
 Croci, iij.graines.  
 misce.

In other thynges the cure of it doeth not differ from the cure of simple woundes.

But

But yf anye bayne vnder Cranium bee broken, and maketh effusion of bloode: If dura mater, or pia mater be rent or torne, yf Cranium be broken, and thereby the brayne is depresseed, then you must wyth all expedition set a trappan on Cranium, & geue the wound bent, and take out the bloode, or matter, or what ells doth trouble and depresse the brayne. And for because you may knowe perfectly, wh ether the brayne is hurte or not ( although youre senses outwardly can not discerne anye thynge ) note these signes folowynge. If he haue vertiginem, or thinketh he seeth many lyghtes, yf he haue alienation of mynde, or swellynge and tumour of the eyes wyth rednesse, or bleeding at the nostrelles or eares, also vomityng, resolution of some one parte, and appoplexie.

These bee infallible signes that the Braynes suffer, when as they consequently folowe after the head be wounded. And when you are constrained to vse a trappan, you shall make tentes of Cotton, Wolle, or Lynte, and put into hys eares, and commaunds a man to compresse wyth hys handes the Patients eares, lesse the noyse make hym to muche affrayed, and saynte hearted. And looke that you haue alwaye in readinesse softe and fyne clothes wherewith you maye mundifie Cranium, and wype away the bloode. Then looke you haue a  
 peece

## A treatise of

peece of sylke or sendall aunswerynge to the opening of Cranium well wette in auster and Nipticke wyne, or in oyle of Roses, yf there doth appeare any cloddes of blode to laye vpon the panicles, and put this sylke vpon the panicle and wyth an instrument putte it vnder Cranium. Then put Staphes made of the finest carded woll you can get, and wette them in oyle of Roses, and lay them on the place. After that, fill the rest of the wound with clothes dypte in the same wine and oyle, then wyth your hands thrust it out, and laye vpon the same clothe Bole armoniacke myred wyth the whyte of an egge and applye it vpon the same wound, and so: to defende the member from dolour and inflammation, you shall laye rounde about the wound this medicine made of Mel rosaceum, Farina hordei and Iris. And whē the hole made in Cranium dothe begynne to be fylled wyth fleshe: then wyth a raspatorie take awaye the sharpe edges of the bones, and byng the lyps of the wounde by litle and litle into their proper places. And yf through the negligence of the Chirurgian, or the yll habite and disposition of the patientes body, or any distemperature, there foloweth corruption to any part affected of the braine, then you must againe returne to the vse of precipitate or Vnguentum Egyptiacum,  
which

Which is most excellent in this case. And euer af-  
 ter the doctrine of Hippocrates and Galene be  
 mindfull that thou woꝝke safely, spedely, & wyth  
 so litle pains to the pacient as possible you may.  
 Wherfoꝝe handle the parts tenderly, and wype  
 al filthy matter away. Let y<sup>e</sup> rollings only serue  
 foꝝ to kepe on the medicines, wherfoꝝe let them  
 not be to straitte and so to pꝛouoke paine. Let the  
 belly be flurible and lose by clysters, supposito-  
 ries, oꝝ purgation: If that it be not naturally  
 soluble. And in thys case you maye gyue the  
 wounded pacient every day oꝝ els every second  
 daye, one pille of Agarike oꝝ Aloes. The diet  
 muste be most smal and tender from the tyme  
 of the receiuing the wounde vntyll the .vij. day.  
 The meate shalbe the brothes made with a chic-  
 ken, the drinke shalbe water boyled with suger  
 and a litle cinamom, oꝝ els small ale and beare.  
 From the .xi. oꝝ .xij. day you maye giue him at  
 meate a litle french wyne, oꝝ if the wyne be to  
 strong mire it w<sup>th</sup> fountaine water, oꝝ water of  
 buglosse & bozage. His brothes made as befoꝝe  
 w<sup>th</sup> chickens oꝝ a capon. And you may thicken the  
 broth w<sup>th</sup> bread, with almones, oꝝ such like things  
 that do noꝝishe. Notstanding let al be done with  
 great discretion. And that the pacient obserue  
 his due houres of diner and supper. Other thin-  
 ges required foꝝ the oꝝder of. 6. rerum non nat.  
 Let the Chirurgian lerne of y<sup>e</sup> skillful Whisition.



## Of woundes in the Breste.

## Chap. v.

**A**lthough the woundes made with gonnes shotte are in all partes of the bodye one in effect and grieffe: yet doth the cure differ according to the place wounded. Which thing prouoketh me to describe here also the severall cure of woundes made in the Breste. Wherefore if the wounde in the Breste perleth not through, you shall cure it lyke other woundes. And the first two dayes applye vnguentum ex precipitato, or some other, which hath the lyke facultie. And after y<sup>e</sup> vse some medicines which will gently excitate & mundifie, as mel rosarum simplex, or elles mixed with Turpentyne, Aristolochia, farina hordei, and suche lyke. And it shalbe right good from the second day, vnto the fourth or fiftte daye to put to your abster- siue medicines, freshe and new Butter. So you may make your compound after this maner.

Rec. Mellis rosarum,                   j. vncc.  
 Terebinthinæ,                    } ana. ij. dragmes.  
 Butyri recentis,                    }  
 Farinæ hordei,                        }  
 Aristol. rotundæ,                    } ana. j. dragme.

¶



Mixe these together and dyppe your tentes  
and spleageants in them. But vpon the wound  
you shall vse to lay thys medicine folowing.

Rec. Album. vnius oui.

Olei rosati . . . j. vncc.

Boli armeni j. vncc and a half. misce.

But when as that matter dothe begynne to  
appare in the wounde, then in the steade of  
thys laste remembred, you shall vse Emplastrū  
ex Chalcitide, vel Triapharmacōn, made of  
Oxeleum and argenti spuma, spreade on a lin-  
nen clothe and laied on the wounde. And when  
the wounde is clenfed from superfluous humi-  
ditye, you shall cure the wounde lyke those,  
wherreas wanteth some generation of fleshe  
wherfoze for thys intencion dyppe your splea-  
geantes in thys medycyne, to whose compo-  
sition is requirred.

Rec. Succū Myriophylli

Mellis rosati

Terebinthine

Farine fabarum

Hordei

ana. j. vncc.

ana .ij. dragmes

and a halfe.

℞.

℞.

**T**he woundes made with gonshote, yf they be onely about the belly or flankes, wyth outpearcing throughe, and hurtyng the spine of the backe, are cured as other symple woundes made in the fleshe. Fyrst takyng out the shotte, then to remouue the brysed and contused fleshe wyth medicines conuenient, as you see set out in the curyng of woundes of the heade, and brest. Then the iij. day to vse some absteruies which also doe somewhat ericcate and dry. But yf the shotte haue perced throughe the belly and haue wounded either the stomacke, lyuer, splene, kydneyes, intestynes, bladder, or anye of the great baynes or arteries: then there is no hope of life to be loked for. But if the shot haue perced the belly, and yet not wounded anye of the fornamed members, then the shotte being taken out there is some hope of recouery: but yet the pacient is not free from perill and danger. Therefore you shall labour to get out the shot, placyng the pacient vpon the wound, and roll him from part, to part, prouokyng therby the shot to come to the orifice of the wounde. Then wyth a probe made apte and conuenient for the same vse, take out the shot. But if so be that you cannot wythout great payne & much searching fynde the shot, it is much better to let it remayn within, then wyth prouoking of mortall accidentes labour the takyng of it out. For  
there

there is no daunger in letting the shot remains  
in. And there is great perill in longe serchpng  
so; that the aper doth alter the inward partes:  
and in searchpng, some inward parte maye  
be hurte wyth the probe. I my selfe ser-  
uynge at muttrel vnder the myghtye and pat-  
sant Prince Henrye the eyghte aboute the  
yeare of Christs incarnation. 1544. had the  
experience of eleuen sundrye souldiours shot  
into the bodye wythoute perspng of anye in-  
warde member. And I coulde not get oute  
the shotte wyth oute great difficultie and ma-  
kynge incision: and therefore I letting the shotte  
remaine within the body did perfiteley cure the  
patientes. And they lyued longe after wythoute  
any greefe or payne prouoked by the shotte. In  
lyke maner about the yeare of Chrste. 1557.  
when as Philip kynge of Spaine beseiged saint  
Quintynes, I then seruynge vnder him, had di-  
uers souldiours in cure wounded in lyke sorte  
as is rehearsed: and the shotte still remainynge  
in the body, they were ( thanked be god ) re-  
stoied to helth. I also doe nowe call to remem-  
braunce that there came a souldyour to Lon-  
don whan I fyrste practised the arte of Chirur-  
gerye, who was shotte in the bellye at the  
seege of Pavia. And made perfectley hole the  
pellit remaining within. Thys Souldour. xii.  
yeares after he was thus cured commynge to

the citie, had a great apostume in the flanke. I then amonge other beyng called to the cure, we applyed suche medicines to the aposteme, as we accustomablye doe, to apostemes named Bubones, ingendred in that parte. And when the aposteme brake, and came to suppuration, we tooke out a Pellet of Leade, and after dyd cure the Ulcer, and made the man whole. These I doe, byng onely for examplis sake that other Chirurgicalians beyng in the warres shoulde not to muche busye them selues, or put the Patient to paynes and in daunger in takinge out the shotte. But nowe to that from whence we are digressed. The shotte beyng taken out (if it may easely be done) the contused and brossed fleshe remoued, and the absteriue medicines applyed: you shall procede with incarnatiues, & consolidatiues, as is set out in the cure of wounds of the bellye, in the .ij. booke of my Enchiridion. And if blood or matter be in the belly, vse wyne warmed, & make injections. But how much the sooner thou doest haste the cure of the wounds in the belly, so muche thou makest the patient surer of life, & thy self of wo: hyppie of the cure. Thou mayest vse well in these woundes when neede shall require, this incarnatiue solowng,

Res.

Rec. Thuris,	}	ana. j. dragme.
Aloes,		
Farinæ hordei,		
Terebinthinæ	}	ana. ij. dragmes.
Mellis,		
Succi myriophylli,		

You shal mire the flower with the iuise, then dissolue and melte the honnye & turpentyne at the fier . Then put all together and make an unguent. With this you shal sprede your splea- geantes & dyppe your tentes in . And when the fleshe do growe well , & that the wounde begyn to be fylled: you shal applye suche medicines as are astrigent, & both dyye: as honny mixt with powder of Bay berries , Pasticke , flowers of Pomgranettes, & Turpentine. And for an em- plaster you maye vse emplastrum Chalcitidis, set out in the seconde booke of my Antidotarie. You maye not forget in these woundes of the bellye to open a bayne in the arme on the same syde: and commaunde the Patient to vse quiet- nesse in bodye, & flee perturbations & affections of the mynde, so much as in him is possible.

Of the cure of woundes made with gonneshotta in the partes called Artus, conteyninge the armes and legges. Chap. vii.



**T**he cure of such woundes as happeneth to the armes and legges , is after the methode set out befoze , For first you shall (the wound being made in the fleshye parte ) wyth your probe searche oute the shotte and wyth your crowes bille take it oute.

But yf it haue well neere perced throughe the member , and that you maye feele it in the opposiſtye parte , then cutte the place , and take oute the shotte , regardynge alway that you cutte none of the greate baynes whyche layeth towarde the skynne . But yf the shot cannot easelye be founde , you may not therfoze cease the cure of the wounde , but procede in thys maner . If the holes of the shotte doe differ and are distaunte , you shall rolle fyne Lynte together, and put it into the eye of your Probe made lyke an spædle , and drawe it through the wounde . But yf the Muscles doe not suffer thys : Then you shall instyll and powze into the wounde the vnguent made wyth Butter, Precipitate , and my Egyptiacum (whose composition is in the Antidotarie) and let it pearse into the wounde . Then you shall make Lentes and dyppe them in the same , and put into the orificies of the wounde , and vpon the partes rounde aboute , you shall applye the medicine made of oyle of Roses, Sole armoniake , and the whyte of an Egge  
 myred

mixed together . This medicine you shall so longe vse vntyll you see paste suspicion of inflammation, and other accidentes . And when there appeare sygnes of concoction , you shall put but one parte of Butter , and two partes of Honnye . After wbyche thynges done, the vse of thys medicyne is conuenient.

Rec. Succij	} ana. j. vnce.
Myriophylli	
Terebinthine	
Mellis	ij. vnces.
Farinę fabarum	} ana. ij. dragmes.
Hordei	
Aristolochię rot.	j. dragme & a halfe.
Aloes.	j. dragme.

First mixe the pouders wyth the iuyces and Honny on a softe fyre: then put in Turpentine. And in sommer or whereas the paciente is of colozke nature , in the place of aplum you may put the iuyce of plantine : or yf you wyl moze spedely exiccate and drye , put to it Lithargirũ made in molte fyne poudre , or els lyme washed many tymes , and dryed and made in fyne poudre. And when as the wound is well mundified: you may vse some incarnatyue as this for example.

C. d.

Rec.

## A treatise of

Rec. Terebinthinę,	ij.vnces.
Mellis	j.vnce.
Aloes	}
Thuris	
Farinę hordei	
Aristolochiz	halfe a dragme

And now you must haue regard to your tents that you daylie make the shorter and lesser. And so cure the wound. But if it happeneth that thorough the violence of the Hot, not only the fleshy parts be wounded, but also the bones fractured and broken: then you shall vse a double kynde of cure. For the cōtusion must be cured as I haue here before made mention: and the bone fractured must be vnited & vled as is set out at large in the fourth booke of my Enchiridion. Sauing y<sup>e</sup> you shall not vse ligatures & splents in this kind of wounds. But first you shall labour to take out the Hot. Next to remoue the confused & brosed fleshy, then to procure the generation of new fleshy. After which, shall come the vnition of the bone. And because you may kepe the part without motion when as the bones are ioyned: you shall vse the instrument which is set out for fractured legges in the ende of this booke. And then couer the member with soft clothes that it may be defended from the insurce of the ayer.

Of the cure of those that are burnt  
with gonnepouder. Chap.viij.

**T**he cure of those that are burnt with gon-  
pouder doe require none other cure then if  
they were burnt with fyre, or other flames  
Wherefoze it were superfluous to make men-  
tion of the cure of it in this place, yf it were not  
that those which vse shottynge in gonnas as sub-  
iect to the flambe of pouder: and therfoze I haue  
placed it wpth this booke. Wherefoze yf the  
skinne be not yet vlcerate, you shall apply to the  
parte, oyle of bytter almondes, oyle of Oliues  
with salte, or that which is in comon vse, to take  
two partes of the iuice of Onions, and one part  
of barnishe. But yf there be vlcérations then  
you must make this vnguent folowing.

Rec, Olei oliuarum ij. pounce.  
Secundę corticis Sambuci iiij. vncces.

Boyle these on the fire, then strayne them  
strongly, after adde to them.

Ceruse	halfe an vncc.
Plumbi vsti	} ana. iij. dragmes.
Lithargyri	

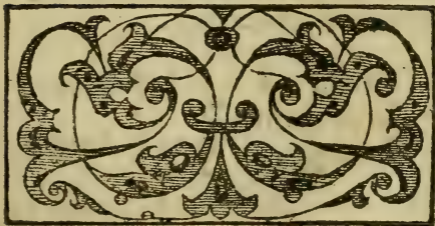
Pyre

## A treatise of

Myre these with a leaden pestell in a moxter,  
and make thereof a Lymimente accordynge to  
art. But you must take hede that you open not  
the bladders, for the space of .ij. or .iij. dayes : for  
when as they are opened at the beginning they  
bring dolour & paine. The inflammation ceased  
and the accidents which may happē being put a-  
way: the reste of the cure is as the cure of bl-  
cers : whiche varyeth accordynge as  
the vlcer is symple , or com-  
pounde.

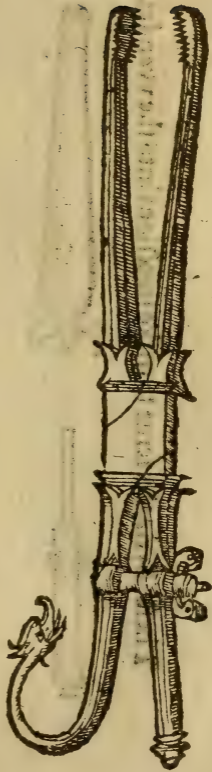
Thus endeth the treatise of  
Gonnelhotte , compiled  
and pubshed, by Tho-  
mas Gale maister in  
Chirurgerie.

F I N I S.

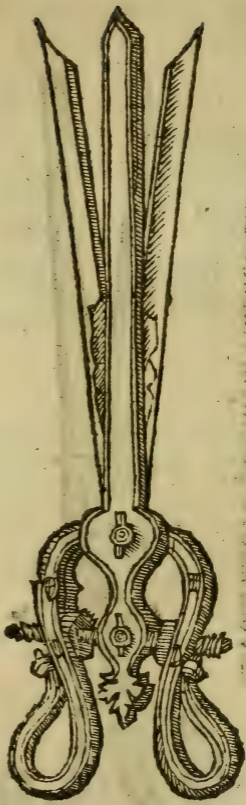




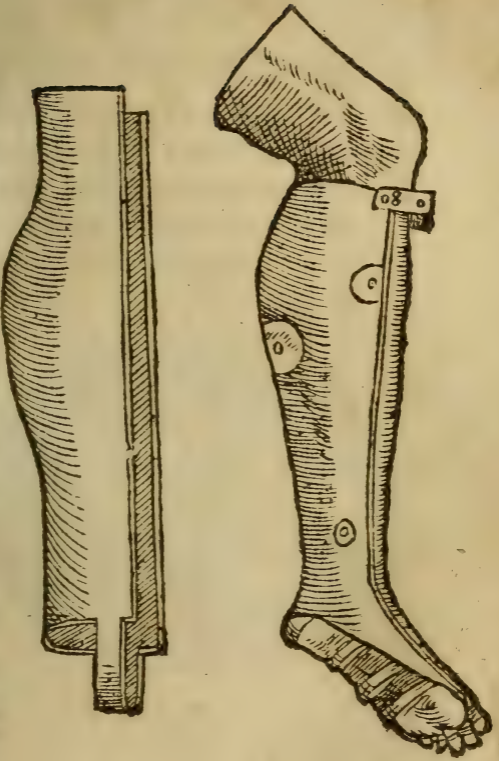
These instruments be called Forcepes and are vſed for to  
take out ſhotte or pelletes in wvoundes. &c.



**These Syringies serue to make iniections into the wvondes.**



**These are the infition Sheeres to enlarge a wvonde.**



This instrument is called Golsopium and ferneth to lay the fractured legge in, being broken vith Gonneshote. &c.



# An Antidotarie

conteyning hidde and secrete Medicines simple and compounde: as also all suche as are required in Chirurgie: faythfullye gathered and published by Thomas Gale Maister, in Chirurgie.



PRINTED AT LONDON  
by Rouland Hall, for  
Thomas Gale.

1563.



- Antidotarie. **W**Hy vvith so coye, and straung a looke,  
doft thou me thus beholde?  
Am I vnknowven vnto thy feēt,  
or my vse manifolde?
- Chirurgian. **V**Where as acquainted men bee not,  
vvhat shoulde they faune and smyle?  
I knowve you not my lookes it shevve,  
I vvill you not begyle.
- Antido. **M**y maister hath sent me abrode,  
to his great cost and paine:  
**V**Villing me vvith Surgians to dvvell,  
to their vvorshippe & gaine.  
If that but ons my name you heare,  
you vvill me knowve certaine,  
Antidotarie cald I am,  
vvhich great treasures containe.
- Chirurg. **A**ntidotarie should I knowve,  
but thy speach, & araye,  
(**V**Vhich yet I haue not hard or scene)  
doth conterary saye.
- Antidot. **I**n deede I vvas naked & bare,  
vvith errours eke infect,  
And barbarous names of medicines;  
to vvhich I vvas subiect.

But

But lo, I am nowe garnished,  
with medicines of price  
VVhich olde Hippocrates did vse,  
and Galene did deuise,  
Auicen, Rafis, Mesue,  
Guido, Brunsvvike, Vigo:  
And all my maisters trauailes eke,  
he hath added me to.  
And though my speach for vvant of vse,  
semth somevvhat straunge to thee,  
Yet if learning thou vvylt imbrace,  
and acquaint thee vvith me,  
Familiar thou shalt me fynde,  
easye to entertaine.  
Then geue me leaue thee to imbrace,  
do thou vvith me remaine,  
And for thy sake I vvyl not spare,  
labour, and tyme, to spende.  
Yf thou so do, great gayne vvill spring,  
and men vvil thee commende.

Chirus.

Acidos.

W. Cunyngham.



1563

THOMAS GALVVS CHIRVRGVS  
ANGLVVS ÆTATIS SVÆ 56

# Thomas Gale Chi-

rurgian, vnto the frendlye

Readers, Salutations.



When as I hadde finished my Institutions, Enchiridion, and Treatise of woundes made wyth Gunne shotte (louynge Reader) I dyd ryghte well perceyue that the preceptes of the arte in them conteyned, shoulde not so farre extend and serue so well thy vse, excepte I did set oute suche medicinal instruments, as bothe are mencioned in the same bookes, and of necessitie are required in the arte of Chirurgerie: as vnguentes, oyles, Baulmes, lotions, wounde drynkes, Emplasters, Cerotes, Cataplasmes, Trochisce, Pouders, & such lyke. For although I haue set out diuers approued medicines in other my workes, yet they be but as an handes full in comparission to this Antidotarie, and put forth there onely for

Aaa.iii. exam

example sake. Wherefore I haue drawen oute of the moſte approued Authours olde and newe, ſuche medicines as bee both eaſely prepared, and of moſte effecte and vertue: addynge hereto what I haue founde profitable and neceſſarie by longe experience and practiſe. And althoughe perchance at the fyrſt it may ſeeme ſomewhat obſcure and harde (becauſe I put the receptes and compositions in the Latyne tongue) yet yf you doe accuſtomablye uſe to reade them, and conferre either wyth the Apothecarie where as you doe not perfectly vnderſtande the ſame, or elles uſe the helpe of a Dictionarie, they wyll bee vnto you bothe familiar and playne. And thynke not that I haue done thys (louynge Reader) becauſe I woulde make it moore harde and difficultie: But I dyd it chieflye for that the Latyne names are vniuerſallye vſed, & that there are an infinite number of ſimples which want Englyſhe names, & thoſe (for the moze part) that  
may



may be Englyshed, are not bniuersally knowen through England by that same name: because of the Diuersitie that is vsed in callinge of simples, accordyng to the countrey. And yet I Doe not omit to set out in the English tongue as well the methode and way of composition of suche medicines, as I haue placed in this Antidotarie: as also faithfully declared their vertues and vse, for what causes they are inuented, and for what infirmities they serue. And although it seeme harde, obscure, and difficulte at the first face, yet folow thou styll the counsell of the wyse Poet who sayeth:

*Afsiduo illisu durum cauat vndula saxum.*

Whiche Verses maye bee englyshed with vs in this maner.

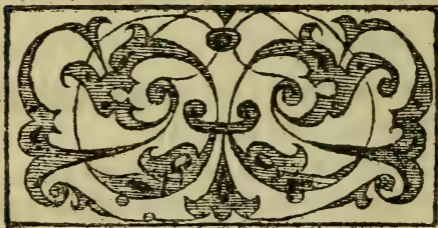
The watter droppes so meyst and softe,  
Doth perse hard stones with dropping oft.

So in like case (Dere reader) the hard names of medicines by oft reding will be persed, I meane they wyll be as facile & easy vnto you as possible may be.

*Aaa.iiii. Now*

Nowe there resteth no more but that  
thou wylte with the same good wyl  
and mynde receyue these my trauailes  
and expences, that I frely do offer  
them vnto thee. So doynge I wyl  
not here staye God wyllyng, but per-  
ticipate other of my labours with  
thee. Fare moste heartely well  
in Christ oure Sauour. At  
my house in London, the  
first day of August.

1563



# The firste Booke of

the Antidotarie conteynynge briezely the  
simples and compoundes ansvvering  
to all the intentions curatiue required in  
the arte of chirurgerie, by Thomas  
Gale, Maister in Chi-  
rurgerie.

## Of medicines repercussive bothe simple, and compounde. Chap. i.



Medicines which doe repell and  
dzyue backe, bee of qualitie  
colde and suche as haue an ad-  
stringent facultie, although  
they be whote. The vtillitie  
sprynge by the right vse of  
these is great. For we staye by them the flure  
of humours in their beginning. Hereof doeth  
it folowe, that we let the generation of inflam-  
mations, apostemes, vlcers, feuers, dolour,  
and payne. Of simple medicines repercussive  
these are some in mooste vse. Waters eyther  
fountayne or distilled, Lectise, Bursa  
pastoris, Myntes, Purselane, Plantyne, Cole-  
wortes, Wormewode, Centaurie, Melilote,  
Pentapbyllon, Knotgrasse, Houselæke bothe  
great and lesse: the leaucs & toppes of Bram-  
ble tree, the Myrtle tree, Balauſtium, Galla

The first booke of

omphacitis, omphacium, Vineger, wylds Apples, and Peares, Meddelers, Seruise trees and fruite, Alume, atramentum futoriū, ceru-  
fa, Litharge, acatia, bolus armena, terra figilla-  
te, Hypocisthis, aloes, amomum, agaricke, Cal-  
canthum, Crocus, Coral, Hematites, Ladanum,  
Myrrha, Chryfocolla, Cadmia, Cinabaris,  
Sanguis draconis, Spodium, Tragacantha,  
the Oke, Cypresse leaues, and Wyntes, Man-  
drage apples, & iuse, Henbaine, Pople, whytes  
of Egges, and suche lyke. Among compoundes  
these are numbred whiche doe dyue backe and  
staye the flure of humours. Dyle of Roses, Ca-  
taplasmes made with the iuse of these herbes,  
and with floure. Also cerotes, as cerotum e  
Psyllio, ceratum rosaceum, ceratum myrti-  
num, diacalcitis, oleum rosatum vulgare, oleum  
rosatum Mesue, oleum rosatum omphacium,  
oleum Cydoniorum Mesue, vnguentum fan-  
tallium Mesue, hydreleon Galeni, Cataplasma  
Guil. Buttes ad phlegmones, vnguentum  
contra phlegmones & pruritus, vnguentum  
Pomphologos.

Of medicines attractiue simple  
and compound. Chap. ii.

**M**edicines which do drawe & attracte be of  
whote temprature and subtyle partes,  
they doe drawe out of the inward parts,  
as when as anye venemous matter is in the  
body. Also when splents, bones, scales, thornes,  
arrowe heades, are fixed in any partes, it suc-  
keth oute superfluous moysture in dzopsyes,  
and suche lyke sycknesses. Medicines simple  
attractiue be, Propolis, Sagapenum, ammoni-  
acum, Opopanax, Galbanum, Euphorbium,  
Calx viua, aristolochia rotunda, lepidium,  
Musterd seede, Tithymallus, Pyrethrum,  
Cantharides. Also sterCUS columbium, Gal-  
linaceum, anserinum, arietinum, and ail suche  
lyke symes. Olde oyle, also Turpentyne,  
Larigna, picea abiectina: and suche like as haue  
a greate vertue attractiue: Of compounde  
medicines they vse oyle of Musterd seede,  
Emplastrum apostolicon Nicholai, Oxycro-  
ceum, Emplastrum ex allijs Actij, and diuers  
other, whiche you shall fynde in the seconde  
Booke of the Antidotarie.



The first booke of

Of medicines abstersiue, simple  
and compounde. Chapter. iiii.

*uphich  
of  
of*  
Such medicines as do mundifie, and cleanse  
wounds or filthy blcers: are called abstersiues.  
Of which simple commonly vsed be Smalag,  
Roses, Plantayne, Scabiouse, Pettles, Selon  
dyne, Radix dracontij, Lupines, aristolochia  
longa, & rotunda, Alume, Barley and Beane  
flower, Flos iris, anagallis, Almones, Sotherne  
wode, Sperage, Asplemos, Wormewood,  
Betes, Camepytis, Hartes hozne, cortex Cap  
paris, Eleborus albus & niger, Hozehound, Par  
ietarie, Valerian, whaye, Honny, Staphisagre,  
Pitru, the compoundes are Melicratu, Oxycratu,  
Oxymel, Oemel, Precipitatis puluis, vnguen  
tum Egyptiacum nostrum, veride androma  
chi, vnguentum apostolorum, vnguentum  
mundificatiuum Magistrale, and diuers  
other lyke.

Of

**Of resolving medicines: Symple  
and compounde. Chap. iiii.**

**W**hen as through great fluxis there are hu-  
mours impaete in anye part, then we vse  
resoluetiue medicines: the Graekes call  
them Diaphoretica and they be of whote and  
moist temperature. The simples Diaphoretik  
are these. Whote water, whote wyne, Oyles  
that be whote in qualitte, anthemis, Linscede  
Fenegreke, Myntes, Peppe, Calaminth, Pe-  
neriall, Pettes, Balme, Mugworthe, Camomil  
Malowes, Pellote, Dill, Stichades, Maiozan  
Fumiterry, Wormewode, Cnula Campana,  
Walworthe, Helder, Valerian, Hozehoude,  
Smaleage, Colewortes, Beane, and Barlye  
meale, Turpentine, Ladanum, Sagapenum,  
Galbanum, Opopanax, Rdelium, ammomacū  
Coliphonium, Pyzhe, Frankensence, and the  
grese of Geese Capons, Hēnes, Cranes duks,  
and such lyke. Amonge compoundes specified  
in the seconde Booke these are numbred.

Barbarum emplastrum, Emplastrum ex chalci-  
tide, Triapharmacon, Diachilon album,  
oyles of elder, Lilies, Dill, Camomille, Oleum  
Rosatum compositum Mesue, Oleum Nardi-  
num compositum Mesue, Emplastrū Henrici  
octauj, Emplast. Gul. Firmigonis militis.



Of medicines mollificatiue, simple  
and compound. Chap. v.

**M**edicines mollificatiue whiche properlye  
in Greke are named Malactica, are tem-  
perately whote withoute anye manifest  
qualitie either of moysture or drynesse. We  
use these medicines when as we wyll molli-  
fie and make softe bodyes whiche bee scirrhous  
and harde. Of the simples which doe mollifie  
these are: all fatnesse, Butter, Ammoniacum,  
Bdellium, Atriplex, the rootes of Althea,  
Mare, Colophonie, Fengegreke, Cinamome,  
Saffran, Cypresse, Galbanum, Lyneseede,  
Laudanum, Loxrell, Lilies, Pallowes, Opo-  
panax, Desipius, Piche, Psyllium, al Resines,  
the marrowe of a Harte, a Calfe and Ore,  
Stozar and Pzopolis, and Mescelto.

The chiefest compoundes herein used, bee  
Diachylon magnum Mesue, Dialthea cum  
gummi Nicholai, Emplastrum de Mellio-  
mesue, Diamelilotou Andromachi ex Gale-  
no, Emplastrum ex allijs Aetij, Diachalceteos  
Galenii, Dia chylon mesue prime descriptio-  
nis, Ceratum e styrace, Ceratum gratia Dei,  
and suche lyke set out in the seconde Booke.

Of

Of medicines which do suppurate,  
simple and compounde. Cap. vi.

**W**hen as all hope is passe by other medicines, then we take those in vse whyche doe suppurate. And note that generallye the great inflamations for the moore parte doe induce payne, and passatiue dolour, and come at length to suppuration. The simples whiche do suppurate for the moore parte, are Althea, Branckurline, Arungia, Butter, Calues fallow, Safran, Ware, Ammomũ, Fengreke, Wheate, Barley, Cocks flower, the rootes of Bzonie, whyte Lillie heades, Labantum, Lyne seede, Mastiche, Desypus, Piche, Frankensence, Kolyne, Styzar, Figges, Stichados, Smyntum. Of compoundes which be of forse in this case: are Picatum ecratum, tetrapharmacon, Basilicon, viride Andromachi, Fastilius Music, Emplastrũ ex fremẽto Democrati, and diuers other which neede no rehearse.

¶

## Of medicines causticke.

## Chap. vii.

**C**Austicke medicynes which doe remoue, and take awaye fylthines in blcers, and superfluous fleshe, are precipitate, sublimate, alome, es Viride, Calchanthum, Sandaracha, arsenicum, Puluis noster secretus, Vnguentū egyptiacum, Vnguentum apostolicon Vigonis, Pastillus Andronius, Pastillus Polyide, pastillus de Minio Ioannis de vigo, Ceratū Viride Iamerici, aqua corrodens, aqua mercurialis. and dyuers other which were superfluous to rehearse: scing they are readelye founde in the seconde Booke: or els in the table belonginge to the whole woorkes. And that I haue here in thys place remembred the cheefe and principall Causticke medicynes, whyche are mooste in vse in these our dayes.

¶

George Caplins  
1522



**Of medicynes which do asswage  
Dolour and payne : bothe syn-  
ple, and compounde. Chap. viii.**

**M**edicines whych do ease dolour and pain  
(called in græke Anodyna) be dill, worm  
woode, Gladine, Agarike, Cardamone, Cha-  
momille, Centaurie, Chamæpitis, Eringium,  
Daucus, Iris, Persely, Rosemarie, Iuniper,  
Miliū, Opopanax, Althæa, Reuy, Ser-  
pillum, Lyneseede, Hyosciamus, Fygges,  
Castorium, Cardamome, Agallochum, A-  
triplex, Serpillum, Fengreke, Peucedanū, the  
white of egges, & such like. Among compoude  
these are in vse, butter, oile of roses, Violettes,  
Nenuphar, Popye, Lettise, Pursulane, Oleum,  
Mastichinum Mesuę, Oleum Populium Ni-  
chulai, Oleum Hyperici Magistrale, Oleum  
Mandragorę Nicholai, Oleum Lumbricorum,  
Vnguentum infrigidans Galeni, Ceratum  
Oxycroceum Nicholai, Emplastrum de Spe-  
ciebus, Cataplasma D. Gul. Buttes ad dolorē  
sedandum. And such lyke.

The firste booke of

Of medicines incarnatiue: Simple and compound. Chap. ix.

**M**edicines incarnatiue, which doe also in-  
gender fleshe: are Aristolochia rotunda,  
Frankensence, Ladanum, Aloes, Cadmia  
lota, Pompholix, Amylon, Manna, Mirrhe  
Storax, Spodium, Turpentine, Colophonia  
Chrysocola, Piche, Christallus, Oesypus.  
Of compoundes they vse Viride Galeni, theri-  
aca, Aureum Mesue, Fuscum Nicholai, Te-  
trapharmacum, Dia Irios, Puluis Rasis, Vn-  
guentum Basilicon Mesue, Ceratum Viride  
Iamarici, Vnguentum incarnatiuum Brunsvi-  
censis. And dyuers other set oute both in the  
Enchiridion in their proper places, and also in  
this seconde Booke.

¶

**Of medicines which doe cicatrize,  
symple and compound. Chap. x.**

**M**edicines which are to be vsed to cicatrize  
an vlcer, when as it is fylled with fleeshe  
are these, Aloes, bolus armena, Alome, A-  
ristolochia, amilum, balauſtia, bdellium, anas  
gallis, Centoꝝ, Camepitis, Chamedris, cadmia  
Eupatorium, es vltum, acatia gentian, Gipsum,  
Iris illirica, Licium, Lupines, Mell coctum,  
Myrtius, Myrrhe, Lithargyrum, Plantain, Pen-  
taphillon, Paper combust, Sanguis Draconis,  
Sarcocolla, stymmi, Sandaracha, terra Lemnia,  
Symphiton maius, the leaues of elder, Fran-  
kensens, Tormentyll, Garuayne, Ceruse, Cu-  
presse galles, tutia, and such like. The compo-  
des are Dia cadmia, Dia ladani, Vnguentum  
album Rasis, album e Cerusa, Vnguentum  
Pompholigos, Puluis Epuloticus, Vnguentum  
Nicholai, beyng the seventh vnguent set out in  
the seconde booke. Diapipereos Galeni, Dia  
Dictamu Eiusdem, Emplastrum Calisiense,  
Emplastru Gul. Firmigonis: Militis, Ceratum  
Viride Iamerici, Vnguentum desiccantium  
rubrum: and dyuers other. &c.

The firste booke of

Of medicines Conglutinatiue,  
symple and compounde.

**M**edicines conglutinatiue, symple be: elder  
Malworste, Syderites, Symphitum, plantaine,  
Anagallis, androsomon, copvvebbes, Lana  
Succida, new these Ifatis, Myrrhe, Sarcocolle  
Aloes, Barlie combust, Pitch, Rosen, & gumme  
arabicke. Of compoundes they vse, artificiall  
Balmes, amonge whiche that whych is set out  
in the seconde Booke after oure Invention is  
ryght excellent and of great vertue. Barbarum  
emplastrū Galeni, & vnguentum é vermibus,  
Oxeleum Galeni, Oeneleum, Ceratum  
viride Macherionis ex Galeno.

And dyuers other of whiche I  
nede not to make a bayne  
and superfluous rebetsal.

FINIS.

# The seconde booke of <sup>7.</sup>

the Antidotarie, Contayning the medicynes  
compounde : and their waye of com-  
position, with theyr vertues and proper-  
ties, by Thomas Gale Mayster in  
Chirurgerye.



In the former booke (louynge  
Reader) of thys Antidotarye I  
haue set oute bzeefelye and eke  
compendiouſlie, ſuch medicynes  
ſimple and compounde as are  
required in the curatiue intenti-

ons of Chirurgerye : nowe I thynke good in  
this ſeconde booke, to declare the compositions  
of all ſuch cōpoundes as are there remembred,  
and be of moſt price in the arte . Unto whiche  
I haue alſo added no ſmal number of vnguentis  
oyles, Balmes, Emplaſters, Cerotes, wounde  
drynke, &c, of myne owne inuention. And here  
note, that there is difference betwyr the gre-  
cians, and the later wyters, touchinge the  
names of theſe compound medicynes. For the  
Grecians dyd call vnguentis onely aromatick  
oyles, wherewyth they dyd annoynt the body.  
The Cerotes they called ſuche medicynes as  
receyued into their composition oyle and ware.  
Emplaſters be medicynes whyche take into  
their composition dyuers kyndes of ſymples,  
Bbb.ij. but



## The seconde booke of

but cheselye metallen bodyes and these are so longe to be boyled together, vntill they wyll no longer desyle, and cliue to the handes. Cataplasmas, be medicines standing on herbes, flowres oiles, wheat, barley, ote, beane and other flower. Which are not so long to be boyled on the fyre, as emplasters are. Trochisce, be compositions made rounde and were deuised to keepe longe tyme such symples in their foze which do enter in other compositions. Pouders be medicynes beaten and made subtile and fyne lyke mootes of the sonne, as they call them. Waters are prepared diuers wayes by the arte of Alchimie. Decoctions, lotions, and infections, be liquors and other thynges boyled together and then strayned. What quantitie of euerye symple should be admitted to euerye forme of composition can not in generall rules be set onte, but both varye accordynge to the curatiue intentions. Perticuler formes of compoundes suche as be of moste price, and vloed: shall folowe in thys seconde booke: as also there way to make them, and to what vse they serue: begynnynge fyrst wpth vnguentes.

The

The discription of an vnguent called In-  
frigidans Galeni.

Rec. Olei rosati omphacini i.pounde.  
Cera albæ iii.vnces.

You shall melte the Ware in the Oyle, then  
washe it often with colde water, untill it com-  
meth to white colour. Last of all washe it w<sup>th</sup> wa-  
ter of roses & put to it a litle portio<sup>n</sup> of benegre.

It is good to refrigerate hote burning feuers,  
and the heate of the liuer. It aswageth the paine  
in the head. It must be anoynted vpon the rigge  
bone or spine of the back, vpon the temples, and  
on the region of the liuer.

### Vnguentum ad ambusta

Rec. Olei rosati viii.vnces.  
Olei ex ouis ii.vnces.  
Nitri albi puluer. ii.vnces.  
Cera albæ i.vnce and a halfe.  
Corticis mediani Sambuci M,i,

Make hereof an vnguent w<sup>th</sup> a soft syze ac-  
cozdyng to arte.

It is very p̄cious in burnings and scaldings  
and lyke affectes.

Vnguentum de Artanita Maius  
Mefuę

Rec. Olei irini	ij. pounce.
Succi Ciclamini	iiij. pounce.
Cucumeris agrestis	j. pounce.
Butyri	j. pounce.
Pulpæ colocinthidis.	iiij. vnces.
Polipodij	vj. vnces.
Euphorbij	halfe a vnce.

Use those that are to be broused & let them  
be infused in a vessell of glasse wth the iuyces  
and oiles eight daies : then make them whote  
in vase duplici and strain them, then adde.

Sagapeni	vij. dragmes and a halfe,
Myrrhe	iiij. dragmes.

These must be dissolved in beneger and boile  
all in the decoction afoze sayde vntyll the iuyces  
be consumed, then adde to it.

Ceræ	v. vnces.
Fellis vaccini	vij. dragmes & a halfe.

Make

Make al so whote that the ware maye melte:  
after put into it by lyttle and lyttle the powder  
folowynge.

Scammonij

Aloes

Colocinthidis

Mezerei

Turbith

Salis gemmæ

Euphorbij

Piperis longi

Zingeberis,

Chamæmeli

Misce et fiat Vnguentum.

ana .vij. Dragmes  
and a halfe,

iiij. dragmes & a halfe.

ana. iij. dragmes.

It prouoketh vomit being annoynted on the  
stomacke, but on the nauyll it maketh the bel-  
lye lose. So that it is good againste dropsies,  
foz that it doeth much expell serose humoꝝs, it  
doth also kyll woꝝmes. And is vsed in suche bo-  
dies as are not able to take anye purglen me-  
dicines inwardly.

Vnguentum Rosarum Mesuæ.

Rec. Axungia porcina .j. pound.

Wbb.v.

Washe

The seconde booke of

Wafhe it. ix. or. x. times in hote water and as often in colde. Then you shal adde to it.

Rosarum rubrarum recentium. j. pounce.

Macerate them and let them stand together seven dayes, after boile them with a softe fyre. Then strayne them. After put so many newe Roses and doe as you dyd wyth the first. Then take so many more newe and so the fourth time doynge alwayes as wyth the fyfthe Roses. Then adde.

Succi rosarum rubrarum vi. vnces.

Olei amygdalarum dulcium. v. vnces.

Boyle all on a softe fyre vnto the consumption of the Iuyce of Roses, then strayne them and reserue it to that vse.

Alij addunt opij. i, dragme.

It ceaseth inflammations, Herpes, and erythelas and is good against the head ache coming of heate. It doeth aswage the whote distemperance of the stomacke and lyuer.

Vnguentum album auicennæ,

Vnguentum de cerusa dictum,

Rec.



Rec. Lithargyri     j.dragme.  
       Ceruse            v,dragmes.  
       Cere albæ        vij.dragmes.  
       Olei Rosati      ij.vnces.  
       Albuminis ouorum numero.j.

The ware being molten in the oile with a soft fire put in your litarge and Ceruse well beaten and serfed . Pyre these , and last of all you shall put in the whyte of the egge.

This vnguent is good againste aduersion, scabbes , and vlcers.

### Vnguentum de Tutia Magistrale.

Rec. Olei Rosati,            } ana.vj.vnces.  
       Olei omphacini        }  
       Olei Myrtini,            } ana.ij.vnces.  
       Vnguenti populei,      }  
       Foliorum Plantaginis, } ana.M.ij.  
       Solani,

The herbes being well cut and brosed , mixe them wpth the oyles , lettinge them macerate together. viij.daves . Then boyle them a little and strain them. Which done , you shall adde of.

The seconde booke of

Ceræ albæ    iij.vnces and a halfe.

Boyle them vntyll the ware be molten, Curringe it wyth a syle. And take it from the fire addyng to it of.

Lithargyri            vi.vnces.

Pompholigos siue tutiæ preparatæ,

Cerufæ tritæ, ana    ij.vnces.

Plumbi vsti            vj.vnces.

Caphuræ                j.vnce.

Put all in a leaden moztter and let it be stirred two houres continually, after put it into a vessel of glasse. And reserue it to thy vse.

Alind simile, Nicolai

Rec. Olei rosati            } ana.vj.dragmes.

Ceræ albę

Succi solani            j.dragme

Cerufæ lotæ            ij.dragmes.

Plumbi vsti et loti,        } ana.j.dragme.

Tutiæ præparatæ

Thuris                    halfe a dragme.

Melte the ware in the Oyle wyth a softe fyze then put them in a leaden moztter and put the pouders into them, continually Curring them.

And

And then put to the succes of the herbes stirring still for the space of fyre howres.

These .ij. vnguentes are excellent in excicating ericipelas, filthy vlcers, also for vlcers of the legges, and doe fyll the holowe and emptye partes, it dothe further moze refrigerate and cicatrife.

Vnguentum de lythargirio,

Rec. Lithargyri. ij.vnces.

Ceruse halfe a vncc.

Aceti j.vnce.

Olei Rosati quantum sufficit.

Make these in an vnguent wyth a softc fyze. It cureth vlcers and excoziations made thzough rydyngge, straytnes of the shoe, or otherwyse happenng.

Tripharmacum eiusdem Mesuræ,

Rec. Lithargyri } ana, iij.vnces.

Aceti fortis

Olei communis. vj.vnces.

Let the Litharge be finely poudzed and put to it the Oyle and Wynevygre and sturre them continually.

It is of the lyke vertus wyth the vnguent going

The seconde booke of  
going befoze so, it healeth scabbes, and blcers of  
the skinne, and such like.

Vnguentum ad Scabiem.

Rec. styracis liquidæ,  
Terebinthinae lotæ, } ana. ij. vnces.  
Butyri loti,  
Succi limonum j. vnce and a halfe.  
Hellebori nigri puluerisati, j. vnce.  
Salis. ij. vnces.

Mixe them together and make thereof an un-  
guent according to arte.

It hath like vertues w<sup>th</sup> y<sup>e</sup> unguent going befoze

Vnguentum de Minio.

Rec. Minij læuissime triti ij. vnces.  
Olei Rosati }  
Olei Myrtini, } ana, ij. vnces.  
Coquantur lento igni cum.  
Cerae albæ. halfe a vnce.

Make an unguent therof according to art.

Aliud de Minio camphoratum,

Rec. Minij triti iiij. vnces,  
Lithargyri, ij. vnces.  
Cerae, j. vnce and a halfe.  
Tutiae, }  
Camphoræ } ana. iij. dragmes.

Olei rosati      j. pounce and a halfe.  
 Ceræ albæ      ij. vnces.

The ware being molten in the oile vpon a soft and gentle fire, put it in a leaden mortar & put the other symples made in most fyne powder into it and sturre them continually.

This vnguent is good against old & maligne blcers, and such as wil hardly be cured. &c.

### Tetrpharmacon Galeni.

Rec. Picis nigræ,  
 Resinæ,  
 Ceræ,  
 Adipis vaccini,  
 Fiat vnguentum.

} ana. q. s.

It doth heate & make moist the part to which it is aplied, it ceaseth dolour, & doth suppurate, & make mater oz sanies. Wherfore it is right good for to bring apostemes to suppuration.

### Vnguentum Basilicon minus Mesuæ.

Rec. Ceræ flauæ  
 Resinæ pinguis  
 Picis grece,  
 Olei communis quantum sufficit  
 Fit vnguentum lento igni,

} ana. j. pounce.



The seconde booke of

Some put turpentine to it, some in the place of it doe put piche.

This Unguent answereth to the vertues of Basilicō minus but it is moze weake. Wherefoze it is moze apte for greene woundes of the heade and neruous partes and vlcers.

Vnguentum Basilicon minus Me-  
sua Galeni Enneapharmacum est.

Rec, Ceræ albæ,  
Resinę pini,  
Sepi Vaccini,  
Picis græcæ,  
Picis nigræ,  
Terebinthinę,  
Thuris,  
Myrrhæ  
Olei communis. s. q.

ana. j. vncc.

Fiat vnguentum.

Such vlcers as be wyth oute inflammation in the neruous and sinowye partes this Unguent fylleth wyth fleshe and incarnateth verye well.

Unguentū

**Vnguentum fuscum Nicolai****Rec. Olei, one pounce and a halfe.****Ceræ nouæ, iiij. vncc.****Picis Græcæ, } ana. ij. vncc.****Picis nigræ, }****Mastiches, } ana. j. vncc.****Galbani, }****Thuris, }****Sagapeni ij. vncc.****Terebinthinæ, j. vncc.****Fiat vnguentum.****This vnguent hath a power and vertue of  
healing and attracting.****Vnguentum capitale Conciliatoris,****Rec. Gummi eleni, iiij. vncc.****Hammoniæ, ij. vncc.****Terebinthinæ, } ana. iiij. vncc. & a halfe.****Resinæ pini, }****Ceræ, quantum sufficit.**

The second booke of

Make of this an vnguent . And let the gummes bee dissolued accorbynge to arte , and so longe boyled vntyll they come almoste to the forme of a Cerote.

Vnguentum è Caprifolio Carpi.

Rec.	Terebinthinæ,	}	ana. iiii. vncc.
	Resinæ pini,		
	Ceræ nouæ,		
	Olei rosati,		viii. vncc,
	Mastiches,	}	ana. j. vncc
	Thuris,		
	Gummi eleni,		ij. vncc.
	Caprifolij,	}	ana. iij. vncc.
	Betonice,		
	Vini optimi,		tenne pounce.

Woodbynde

The Woodbyndes and Betonye beyng stamped, let them stande infused in Wyne foure and twentye houres. Then adde to them all the other percelles, excepte the Gummies, Frankensence and Masticke, boyle these on a cleare fyre vntyll the halfe parte of the Wyne be consumed, and that it begynneth to ware greene, then strayne it, and let it coole. Then boyle it agayne vntyll all the Wyne bee consumed

lumed, then strayne it agayne, and then boyle it, and addc the reste of the percelles in fyne Powder. And then put it in a colde place, and reserue it to thy vse.

This is a ryght excellent medicine in woundes of the head.

Vnguentum è Calce magistrale,

Thou shalt euerie daye ons walthe the Chalke, and let the water bee taken awaye wyth a Sponge, doe this tenne dayes. Then walthe it wyth Rose water, and let it drye, and then

Rec. Huius calcis ita extinctæ,	three vnce,
Olei rosati,	one pounce
Ceræ albæ,	thre vnce.

Melte the Ware in the Dyle, then takynge it from the fyre, put the Chalke made in molte fyne Powder, vnto the Dyle and Ware, and make an vnguent of them accoꝝdyng to arte.

This vnguente is good soꝝ burnynges and scaldynges.

Vnguentum populeon Nicolai,

Ccc. li. Rec.

The second booke of

Rec.

Oculorum Populi arboris recentium  
mense Martio collectorum. a pounce  
and a halfe.

Arungie porcine preparata. iiii. pound.

The Pople buddes muste bee broused, and  
mired with your Arungia vntyll your other  
herbes maye be prepared, then adde to it,

Folio- rum.	}	Papaueris agrestis,	}	ana. iij. vncc.
		Mandragora,		
		Hyoscyami,		
		Solani,		
		vermicularis aut crassule		
		Lactua,		
		Semperuiui,		
		Bardana,		
		Portulaca,		
Violaria,				
Vmbilici Veneris,				

The herbes must be mired and tempered  
with Arungia, then take of Wyne a sufficient  
quantitie: Boyle them to the consumption of  
the wyne, then strayne them and make of them  
an unguent according to art.

It is merueylous precious agaynst ragynge  
beate





The seconde booke of

Seminis Lini,	}	ana. one pounce,
Fœnogræci,		
Pulpæ scillæ,		vj. vnce.
Olei,		four pounce
Ceræ,		one pounce
Terebinthinæ,		two vnce,
Resinæ,	}	
Picis Græcæ,		ana. vj. vnce.

Make an vnguent as is aforesayde , then  
adde to the Gummes folowynge , first beyng  
dissolued in Winegre,

Galbani,	}	
Gummi Hedere,		ana. two vnce.

Mixe them well , and reserue it to thy vse.

This vnguent properly helpeth the payne of  
the Wreste commynge of colde , and the Plu-  
risie , and healeth all partes of the Wrestes,  
whiche are refrigerated, it doeth moysten, mo-  
lifie, and make whote,

Vnguentum Santalinum Mesua.

Reci

**Rec.** Rosarum rubearum, one vnce,  
 Sandali rubri, j.vnce. ij. dragmes  
 Sandali citrini, } ana. vj. dragmes.  
 Sandali albi, }  
 Spodij, halfe an vnce.  
 Caphura, ij. dragmes  
 Ceræ albæ, iii.vnce. vi. dragmes.  
 Olei Rosati, j. pounce,  
 Boli armeni, vij. dragmes.

You shall melte the Ware in the Oyle, and  
 washe it often tymes with colde water, after  
 that all your other percelles beyng made in  
 fyne powder, you shall put them together, and  
 make a fyne vnguent accordyng to art.

It doeth extinguishe and putte awaye all in-  
 flammations of the lyuer and stomacke, and  
 other partes of the bodye.

### Defensiuum magistrale.

**Rec.** Boli armeni, }  
 Sanguinis draconis, } ana. i. vncc  
 Terræ sigillatæ, }

Gcc.iiij.

Olei

The seconde booke of

Olei Rosati	vi.vnces.
Ceræ	j.vnce and a halfe.
Aceti	iiij.vnces.

Boyle the oyle, Veneyger, and ware together vntyll the Veneygre be consumed . When takynge it from the fyre when as it begynne to refrigerate and ware colde, putte to your other percelles made in fyne powder and reserue it to thy vse.

Mundificatiuum, magistrale.

Rec.	Mellis Rosati colati	i.vnce & a halfe.
	Terebinthinæ claræ	iiij.vnces.
Succi	Apij Prasij	} ana. syxe dragmes.
Succi absinthij	ij.dragmes.	

Simul coquantur, deinde addentur.

Farinæ	Hordei	} ana. vj. dragmes.
	Fabarum	
	Lupinorum	} ana. iiij. dragmes.
	Orobi	

Sarcocolle

Sarcocollē }  
Myrrhē } ana. j. dragme and a halfe.

Bynge them into powder and make an Unguent accordings to arte. And this Unguent is right excellent to mundayfie a wonnde oꝝ fylthye blcer, and thereof it is called mundificatiuum magistrale.

Vnguentum viride Andromachi ex Galeno.

Rec. Resinz Pini ij. pounce.  
Cera j. pounce and a halfe.  
Olei communis viij. vncces.  
Aeruginis æris iij. vncces.

You shall put the Rosen and ware into the oyle and melt them together, then put to your Crugoeris made in fine powder, & make thereof an vnguent as art requireth. It healeth greene and freshe woundes and such lyk. &c.

Vnguentum apostolorum Auicennæ,

Rec.



# The seconde booke of

Rec. Cerae albæ	}	ana. xiiij. dragmes.
Terebinthinæ		
Resinæ,		
Hammoniæ	}	ana, vi drames
Aristolochiæ longæ		
Thuris		
Bdellij	}	ana fover dragmes,
Myrrhe,		
Galbani,	}	viiij, dragmes
Lithargyri		
Opopanacis	}	ana, ij, dragmes
Aeruginis		
Olei commnis	ij, pounce	
Hyeme verò	iiij, pounce	

You shall dissolue your Gummes in good white vinegar, then put them to your oyle ware Kosen, Turpentine, and Litharge, and boile them on the fyre vnto the consumption of the venegre. After warde the other percelles being made in fyne powder you shall also adde ; and make an vnguent accordyng to arte.

It is of greate force agaynste woundes and vlcers whiche are harde to be cured: also for fistulas, it taketh awaye deade fleshe and restorjeth

restozeth in the place sounde and newe.  
It doeth molifie and heale. &c.

Vnguentum Aegyptiacum Mesue,

Rec. Aeruginis,	fyue dragmes.
Mellis,	fouretene dragmes,
Aceti albi,	seuen dragmes,

Boyle these on the fyre, and styre them so longe vntyll it be Redde. Other take of thys vnguent, sixe vnce.

Calcāthi vsti,	ij.vnce.
Olei rosati,	ij.vnce.
Cere,	quantum sufficit.

Make all in an vnguent accordyng to arte.  
This is ryghte good agaynst olde woundes,  
Fistulas, and also it taketh awaye superfluous fleshe, and doth vehemently excicate & drie.

Aliud Ioannis de Vigo.

Rec. Aquę plantaginis,	} ana. ij.vnce.
Vini malorū gran.	
Mellis,	

Alumi-

The seconde booke of

Aluminis rupis, }  
Aeruginis, } ana. x. dragmes.

Boyle these together, and styre them so longe vntyll that it ware redde, then reserue it to thy vse.

It serueth to the lyke effectes as the other befoze.

Aliud Guidonis.

Rec. Mellis,	one pounce.
Aceti optimi,	sixe vnces.
Aeruginis,	one vnce.
Aluminis rupis,	sixe dragmes.

Boyle and styre them so longe together vntyll they ware redde. Then let it coole, and keepe it to thy vse.

Vnguentum defensiuum & repercussiuum Brunsvvicensis.

Rec. Olei rosacei,	iiij. vnces.
Boli armeni,	ii. vnces.

Terræ sigillatæ,	} ana. j. vncc.
Foenogreci,	
Caphuræ,	j. dragme
Solatri,	} ana. j. M.
Semperuiui,	
Ceræ,	tvvo vncc,

Wrouse the herbes and strayne them, and put them to the other thynges; and make of all an vnguent accoꝝdyng to arte.

This vnguent is bled to defende woundes from accidentes. Also in the begynnyng of inflammations, to cease or rather let the flure of humours.

### Vnguentum incarnatiuum eiusdem.

Rec. Terebinthinæ,	iiij. vncc.
Mellis,	halfe an vncc.
Olibani,	one dragme.
Croci,	one scruple.
Olei rosacei,	} quantum sufficit.
Ceræ,	

Make hereof an vnguent accoꝝdyng to art. It is a ryght good incarnatiue, prouokynge and causynge fleshe to growe in all maner of woundes. &c.

Vnguentum ad phlegmones & pruritus.

Rec. Olei rosati	thre vnces.	
Infrigidantis Galeni	}	ana j. vnce
Vnguenti rosarum		
Populionis		
Succi plangtaginis,	}	ana half a vnce
Semperuiui		
Vini granatorum		
Aceti rosarum	ij, dragmes,	
Lithargyri auri	}	ana, j vnce & a halfe
Argenti		
Ceruse	fyue dragmes,	
Tutia	one dragme	

Put the oyle the iuyces beneger and wyne in to a moxter of lead, and labour them well, and put thereto the meneralls in fyne powder, and when they are well wrought, put thereto the vnguents and worke them all together and so make your vnguent.

This vnguent is for iche of the leggs and inflammation, excoziation, burning and blisteringe, comminge of whote humours, and for whote and sharpe vlcérations. &c.

Vnguentum



## Vnguentum Phomphligos,

Rec. Olei rosati	tenne vn̄ces.
Ceræ albæ	three vn̄ces.
Succi Solatri	viiij, vn̄ces,
Cerufæ lotæ	thre vn̄ces,
Plumbi v̄sti,	} ana ii, vn̄ces
Tutia	
Thuris,	

Boyle the iuyce of nightshad wyth the oyle, tyll the iuyce be consumed, then put to the war, and when it is retented, and set from the fier so that it be neare colde, put thereto the Cerusa, bzunt leade, Tutia, and Thus made in fyne powder, and searsed through a fine searce, sturre them well together and keepe them in a sinne pot, &c.

This vnguent is not onely good in drying bp of vlcérations of the legges and other places of the body, but it is also an excellent remedye, to preserue a canker vlcerat, that it go no further, and also a singuler good remedye, for all other Canserous vlcérations, both in the brest and in all other places of the body.

Vnguentum

## Vnguentum Nicolai Florentini.

A speciall vnguent for the crampe,  
if the Patient haue no feuer, it  
was practised by Nicholas Flo-  
rentine.

**T**Ake a fatte Goose, and take out her bowels  
then take a Catte and cutte her in smale  
peeces, and put the same peeces into the  
bellye of the Goose, with smale peeces of Ba-  
con, Myrre and Frankensence mingled  
all together, then sowe vp the bellye of the  
Goose, and put her on a spytte, and roste her at  
a softe fyre. Set a dripping panne vnder her  
with Vineger and whyte Wyne, and when  
the water of the Goose is dropped awaye, then  
let the fatte droppe into the Vineger and the  
Wyne. After take the fatte that swymmeth  
aboue the Vineger and Wyne, and keepe it in  
a vessell, and boyle the Goose agayne in the  
foze sayde Vineger and Wyne, and much fatte  
wyl come from her agayne, and then take  
thys fatte and mire it with the first, that drop-  
ped from her. And wyth this vnguent annoynt  
the member whiche hath the crampe, for it is  
very p̄cious, and hath vertue to seace payne,  
to waste, consume, and dze by euill humours,  
and

and to comfozte the members, if some of thys  
 vnguent, be put into the vnguent, vſed in  
 Chamæleontiaſi, it helpeth very much, & doth  
 ſeace the paine of that contagious ſickenes.

Vnguentum Ioannis de vigo Contra  
 Chamæleontiaſin,

Rec. Olei ſpici	one vnccē.
Vnguenti pro ſpaſino	two vncces.
Axungie porcine	iiij. vncces.
Olibani	halfe a vnccē.
Euforbij	one dragme and a halfe.
Vnguentū de althea	} ana. j. vnccē.
Vnguentū Agrippæ	
Argenti Viui	iiij. vncces.

**L** Et all theſe be beaten to gether in a moy-  
 ſter of Iron or ſtone tyll no parte of the  
 Argent Viue, be ſeene, but ſee thou  
 mortifye the ſame fyrſte in a little glaſſe  
 wyth Wenevger and faſtynge ſpattell, that it  
 maye the more eaſelye myngle wyth the fore-  
 ſayd

## The second booke of

sayde thynges , and doe lesse hurte in the  
workynge , lette your Olibinum and Eu-  
phorbium be made in fyne Pouder , and  
searsed fyne befoze you myre them with the  
foresayde thynges . Provided alwayes that  
the matter antecedent be dygested , and  
sufficientlye purged , befoze they laye thys  
vnguent on the bodye .

Aliud Vnguentum pro eadem Cha-  
meleontiasi.

**N**ote that this vnguent accoꝝdyng as Al-  
cholas Massa , and other notable wꝛiters  
both olde and newe dothe testifye , it doth  
heale not onely the paynes of that same con-  
tagious sycknes , but also the breaking oute of  
those that be scabed , it resolueth harde Apo-  
somes which is called grunas , bunches , or  
harde knots of the sinewes of the armes and of  
other places , also it healeth vlcers of euyl cu-  
ration or harde to be cured . Thys vnguent  
must be applyed vpon the legges , the armes ,  
and vpon the ioyntes , chesye in the hammes  
in the bowynge of the armes , the wꝛeste of  
the handes , the wꝛeste of the foote , and the  
sooles of the fecte . Also you must annoynt  
the

the sores therewithall , but beware ye laye  
not thys vnguent nie the principall partes: as  
the breaſte and the ſtomacke , but you maye  
annoynte the ſhulder blades the buttockes  
wth it , and yf nede be ye maye laye a lyttle  
on the foreheade and thys is the makynge  
of it.

Rec. Axungia porcine the lyttle  
ſkynnes taken from it withoute  
welyng of the fyre. ii. pounce.

Argenti viui	ij. pounce
Litargyri	iiij. pounce.
Cerufa	iiij. vnces.
Olibani	j. vnce.

Mixe all theſe together and make thereof an  
vnguent , in a mortar , but fyrſte of all you  
muſte beate the ſwoynes greaſe and the Argent  
viue together verye ſtronglye , then put in  
the other thynges in fyne powder , and la-  
bour it well wth your peſſell vntill it be ſo fine  
that none of the Argentum viuum be ſene.

℞. g.

℞. pots



## The second booke of

Note that thys vnguent is the chiefe matter of all the curation of thys deseale , for because you maye myre other medicynes , wyth thys medicine accorbynge to the diuersytie of the sickenes that the pacient hathe : as an example. If the syckenes came wyth harde swellynge , adde Capons grease , Duckes grease or Gouse grease , and sometyme you maye adde all these thynges , and sometyme one, as you see cause, for wyth their whotenes and moystenes they doe resolue the hardnes , and so comfote the hurte member , and yf it chaunce that there be swellynge wyth great payne , you maye adde Oyle of Lilys , of Bayes , of Dyll , and Turpentyne , ether one of them, or moo as ye see cause , for they be stronger in operation , and their bertue is greate. And yf the deseale be maligne or Virulent , that the Paciente maye not be altered or holpen wyth a lyghte medicine, put in moze of the Argentum Viuum, & adde therunto Aqua vite, Sage, Stichados, treacle, Myrrhe and Masticke. It is to be feared of excoziacion that may come , by the strength and Corrosion of the Argentum Vinum. Therefore we correcte thys vnguente wyth Lithargyri and Cerusa , as we haue written here besoze in thys vnguent . And as  
you

you doe fynde dyuers thynges added vnto  
 thys Unguent , So dothe it remoue diuers  
 accidentes and syckneses . But beware you  
 mynyster not thys vnguent wythoute discre-  
 tion , for euen as it dothe helpe thys con-  
 tagious disease beyng ryghtlye vled : So  
 beyng vled wythoute discretion it dothe  
 kyll and destroye.

Prōuided alwaye that thys be not myny-  
 stred wythoute purgation and digestion of  
 the matter antecedent . The Pacyente  
 maye not goe abroade after hys swettyng  
 vntyll suche tyme as his mouthe be hole , and  
 muste vse good lotions , or washynges for hys  
 mouth vntyll it be hole.

Tertium vnguentum pro Chamele-  
 ontiafi.

Rec, Laureolę	}	ana.M.℥.
Abfynthij		
Fumarię		
Centaurij.		
Euphorbij	}	ana.ij. dragmes.
Elebori albi.		
Colocinthidis.		
		ij. dragmes.
		℞.iij.℥.
		℞.iij.℥.

℞.iij.℥.

℞.iij.℥.

The seconde booke of

Boyle your Herbes, your powder and Colo-  
loquintida altogether, your Herbes beyng  
a litle broused in a mortar, and your Colo-  
quintida broken in smale peeces in one  
Quarte of good Maluiesie, tyll the halfe bee  
consumed, then lette it stande a daye and a  
nyghte infused, and strayne it and adde there-  
vnto,

Succi Rutæ,  
Saluiæ,  
Ebuli, } ana. ij. vnce.

Then take Axungia, xii. vnce.

Ping. Anatis, } ana. iiij. vnce.  
Caponis,

Oyle de Bay, vj. vnce.

Lithargyri auri, } ana. ij. vnce.  
Olibani,

Mastiches,

Mastiches,	}	ana. halfe an vncc.
Aloes cicatrina,		
Scammonia,		
Argenti viui,		

Make all those thynges that are to bee made in powder: in syne powder, and mortifie your argente viue wpyth fastyngc spatell or wpyth iuse of Lymons. Then beate all your sozelayde thynges together, puttyngc in youre iuyse and youre decoction together by litle and litle, continuallye labouryngc it in a moxter vntyll it bee brought to a perfyte vnguent.

This vnguent muste bee applyed vppon the legges, and armes as other vnguentes bee that serueth for the same disease. And yf you wyll haue them moze laxatiue, amoynt the nayvyl therewpyth. It taketh awaye apocremes, vlcérations and breakinge oute of the body, and dolour and paynes springing of the same sicknes.

Aliud vnguentum pro eadem Chameleontiafi.

Ddd. liij.

Rec.

The seconde booke of

Rec. Maceris, }  
 Cinamomi, } ana. halfe an vnce.  
 Garyophil }  
 Granorum paradisi, tvvo dragmes.  
 Foliorū rosarum rub. }  
 Corticum limonum, } ana. v. dragmes,  
 Nucum musc. numero. iiii.

Let all these be beaten together and layed in  
 stepe in Rose water, the space of one daye and  
 one nyghte, then put vnto the same water and  
 spyces, of swynes grease and newe suet, fyve  
 pounce. Boyle them together vntyll the wa-  
 ter be consumed, and strayne it. Then take of  
 that same, two pounce.

Argenti viui, seuen vnce.  
 Olibani, tvvo vnce.  
 Mastiches, }  
 Cerusæ } ana. an vnce & a halfe.  
 Litargyri, }  
 Socchados, }  
 Myrrha, } ana. halfe an vnce,

And



And in the ende put of Huske resolved in oyle of Roses, halfe a Scruple . And let these be mixed together , and make thereof a fyne vnguent accordyng to arte , as is aforesayde. And thys vnguent is for ryche and dilicate personnes , and is also merueylous in operation , and muste bee vbled as these are , whiche seruieth for the same infyrmittie.

### Vnguentum Agypsiacum.

Rec. Mellis,	two pounce
Aceti fortis,	one pounce
Viridis eris,	four vnce
Aluminis,	three vnce

Boyle all these together on a softe fyre , vntyll it bee Redd, for yf you boyle it to muche , it wyl be Blacke , and yf you boyle it to lytle, it wyl be Greene . Therefore when it is boyled enoughe, it wyl be perfittely Redde. This vnguent I haue found great profyte in, to mundifie sores , for it taketh away rotten fleshe wythout anye greate payne , it doeth also profyte muche in Fistulays , and hollowe Ulcers , yf it be mingled wyth some conuenient lycour, and conueyed in wyth a syringe.

## The seconde booke of

It doth also abate & take awaie spongiours flesh  
 bothe in woundes and in vlcers , and maketh  
 them come to easye Cicatrization , and thys  
 vnguent is muche praysed , bothe of the olde  
 wyrters, and of the newe in manye other  
 thynges.

### Vnguentum Dealtheæ

Rec.	Radicum altheæ	ij. pounce.
	Sem. Lini	}
	Fœnogræci	
	Olei communis	iiij. pounce
	Ceræ	j. pounce.
	Terebinthinæ,	}
	Galbini	
	Gummi hedere	ii. vnccs.
	Colophonij	}
	Perrosin	

Dealthe

Washe your roottes cleane and bruse them  
 in a mortar , and bruse your Lyne seede and  
 Fengreke also , and putte therevnto of  
 Scylla , brused , halfe a pounce putte vnto  
 all thys, eyghte pintes of water , and let them  
 stande thre dayes , and the fourth daye boyle  
 them vppon the fyre tyll they begynne to wax  
 thicke. When put them into a pottle and when  
 you wyll straine it , put therevnto some whote  
 boyling water , that it maye the better be strai-  
 ned , then take of thys mucylage oz stray-  
 nunge two pounce and a halfe , and put vnto  
 your oyle aforesayd, and let them boyle to the  
 mucylage be consumed . Then put there-  
 vnto your ware , your Turpentyne your  
 Galbanum and Gumme Edere , desolued  
 in Veneyger and strayned , then your perro-  
 sin molten wyth a lyttle oyle of Lilies, and  
 last of al put in your Colophonum in fine pou-  
 der: continually stirring al these together tyll  
 they be cold and so kepe it. This vnguet called  
 Dealthea, is a speciall remedie for al paines of y  
 brest, that cometh of cold, yf the brest be therew  
 all anointed & warme cloese laid thervpon. It is  
 good also for the pluricie , for it doth resolute and  
 molifie, which are required in both these desca-  
 ses , it is good also for thynkynge of synowes  
 and tendones , and also for croked soyntes,  
 for it mollyfieth and supplyeth them gentillye  
 so

## The seconde booke of

so that it maketh them easely to stretche furthe  
agayne. Manye other good properties it hath  
in doynge of suche lyke thynges.

### Vnguentum desiccatinum Rubeum.

Rec. Lapidis calaminaris,	} ana. iiii. vncc
Terræ sigillatæ Rubcæ	
Lithargyri auri,	} ana. thre vncc,
Ceruscæ,	
Camphoræ,	one dragme,
Ceræ,	fyue vncc.
Oleorum rosarum,	} ana. vi. vncc.
Violarum.	

Washe your Lapis calaminaris, Litharge,  
and Ceruse, and dye them agayne, and make  
all these in verye fyne powder, that is to bee  
made in powder. Then melte your Oyles  
wyth your Ware, and in the coolynge put  
therein your powders, continuallye styrrynge  
it wyth a splatter buttill it bee colde, and so  
keepe it to your vse. Some doe adde vnto  
thys vnguent, Oyle of Penupher one vncc,  
Olibanum,

**Albanum and Masticke ana. one vnce, and yf  
you so do it is the better.**

**This vnguent is verye good to Dye by blcera-  
cions, and cheslye of the legges after that they  
be mundified, and the fleshe well incarnat,  
soz other wise it pzo fiteth not, soz it serueth  
soz no other purpose, but onely to Dye  
and to defend humours and to make  
perseite Cicatrization.**



# Oleum rosatum.

Rec. Olei communis .iiij. pounce.

Rosarū rubrarū purgatarū. xvi. vnccs

Macerate them and let them stande in the sunne eyght daies: then take out the Roses and strayne them. After put in newe Roses and let them in like maner stand eyght dayes & strayne them as afore. And doe so the thyrde tyme. And reserue thys to thy vse, some vse to let the Roses remayne in the oyle the laste tyme.

It doth refrigerat and is astringent, and helpeth inflammations in the partes of the body, and it ceaseth the cozrosion of the intestines ministered in glisters, and healeth the payne of the teeth, they beynge washed therewith.

## Oleum Rosatum completum Mesue.

Rec, Olei ex oleis maturis, aqua fontana multoties loti quantum voles.

Put into this Dyle of redde Rose leaues so many as you shall thinke conuenient, set these in the sunne eight dayes, then boyle them in a duple vessell on the fire thzee howers. Then strayne them. After take newe Roses, and doe as afoze is sayde. And do so also the thyzde tyme. After put to the fourth part of water of the infusion of Roses and let them stande in the sunne .xl. dayes. Then strayne it and agayne put to the iuyce of Roses, and let it stand in the sunne.

It doeth strengthen the partes of the bodye, it resolucth, and seaceth dolour.

### Oleum Rosatum Pauli

Rec. Rosarum exemptis vnguibus iij.vnces.

Olei omphacini .vj.vnces.

Put these in a glasse and stoppe them well that they bzeath not out and let them stande in the sunne .xl. dayes. Other doe not sette the glasse in the sunne but hang the glasse in a wel nere to the water for the space of .xl. dayes.

It doth ertinguish the inflammations, it dothe corroborate, restrayne, and sease fluxes, it kepeh backe the humours whyche floweth throughe the bodye. &c.

Oleum

The seconde booke of  
Oleum Rosatum omphacinum.

Rec. Olei Oliuarum immaturarum  
loti. j. pounce  
Rosarū rubrarum purgatarū iiij. vnces.

The roses being bꝛused and myred wyth the  
Oyle put them in a glasse, and do as is afoze-  
saide in the composition of the other oyles. And  
chaunge your Roses thꝛee tymes.

The vertue of this oyle is all one wyth that  
whych is mencioned befoze.

Oleum Chamæmelinum Pauli.

Rec. Florum Chamæmeli, demptis Foliis  
Albis, iiij. vnces,  
Olei oliuarum ij. pounce and a halfe

The flowers must dꝛye in the shadowe. xiiij.  
howers: then put them wyth the Oyle into a  
glasse wyth a narrowe mouthe beyng well  
stopped and let it stande in the sunne. xl. dayes.

It is of ryght good effecte in the passions of  
the ioyntes, & soz the the collicke and many o-  
ther infyrmities; soz it dothe repell and mode-  
rately digest.

Oleum

**Oleum Cydoniorum Mesuæ,**

Fiat ex carne cydoniorum præmaturorū cū  
cortice. Succi cydoniorū. ana, vi, vnces,  
Olei oliuarum immaturarū iij, pounce

Put all in a Glasse well stopped and lette it  
stande fyfene dayes in the Sunne. Then  
boyle it by the space of soure houres on the fyr  
er in a double vessell. Then strayne it, and  
presse out the iuse. Then put newe into the  
Dyle, and sette into the Sunne, after boyle it,  
and expresse it as afoze, and doe so the thyrde  
tyme, and reserue it to thy vse.

It doeth refrigerate and stayeth fluxes, and  
doeth also strengthen the bellye and perues,  
beyng applyed vnto them. &c.

**Oleum populcon Nicolai,**

Rec. Olei,	vij. pounce, two vnces,
Vini,	iiij, pounce.
Gemmarum Populi arboris recen-	
sium,	iiij, pounce

*I poppy seed  
not for*

See. j.

The

## The second booke of

The Buddes of Pople muste bee brouset  
and macerated in Oyle and Wyne, the space  
of seuen dayes. Then boyle them in a double  
bessell vntyll the Wyne bee consumed ; then  
Strayne it, and reserue it to thy vse.

It helpeth payne in the head, in the ioyntes,  
and is good agaynst the goute, and where as  
dolour and payne is. &c.

### Oleum Nardinum compo- situm Mesuz.

Rec. Nardi Indicæ,            foure vnce.  
Sampsuchi, id est, maioranæ, ii. vnce.  
Ligni aloes,  
Enulæ,  
Folij indi,  
Calami aromatici,            } ana. vnce. j. sc.  
Foliorum Lauri,  
Cyperi,  
Schoenanthi,  
Cardomomi,

Brouse all these, and putte to it of,

Vini,



Vini, }  
 Aquæ, } ana. q. su.  
 Olei loti, } vj. pounde,

Let them be macerated twelue houres together. Then boyle them in a double vessell, and make an Oyle accordyng to arte.

This Oyle doeth heate, attenuate, and digest, wherefore it is ryghte good in all colde and wyndye infirmities of the brayne, stomacke, Luer, Splene, Keynes, Bladder, and Matrice. It doeth also cause good colour of the bodye, &c.

### Oleum Sampsuchinura.

Rec. Foliorum Sampsuchi, id est, Majoranæ, M. iij.

Serpelli, M. ij.

Foliorum Myrti. M. j.

Abrotoni, } ana. M.

Sisymbrij seumētę aquaticę, } halfe.

Caciæ, } two vnces.

Olei omphacini quantum sufficit.

## The second booke of

Cut and bruse the herbes and put them in a glasse & set thys glasse in the sunne eyght daies: Then strayne it, which done put other newe percelles and boyle it agayne and strayne it and doe thys the thyrde tyme.

It helpeth lassitude & werynes and is ryght comfortable in passions of the brayne and nerues. Therefore the spine of the backe beyng annoynted wyth it, it helpeth the Palsey and crampe and is good agaynst the sting of Scorpions. &c.

### Oleum hyperici magistrale.

Rec. Olei veteris            foure pounce.  
Vini albi potentis one pounce.  
Florum Hyperici cum semine recentium,    M.iiij.

Bruse the flowers and macerate them in the wyne and oyle beyng put in a glasse well stopt two dayes. Then boyle them, strayne them, and put newe flowers to them, this do thysse then put to euerye pynte of this of.

Terebinthia

<b>Terebinthinæ</b>	sixe vnces.
<b>Olei absynthij</b>	three vnces.
<b>Dictamni,</b>	} ana tvvo drag- mes.
<b>Gentianæ,</b>	
<b>Cardui benedicti,</b>	
<b>Tormentillæ</b>	
<b>Carlinæ</b>	
<b>Calami aromatici</b>	
<b>Lumbricorum in Vino pluries Loto- rum,</b>	tvvo vnces.

Use all and let them stande in the Sunne  
fortye dayes . And stoppe the glasse well and  
receyue it to thy vse.

It bathe the vertues wpth those goynge be-  
fore . And is of moze force in the same infyr-  
mityes. &c.

**Oleum Castorei magistrale.**

**Ecc. iij.**

**Ret.**

The seconde booke of

Rec. Castorei,	}	ana tyvo drames
Styracis calamitæ		
Galbanj,		
Euphorbij,		
Casix,		
Croci,		
Opopanacis,		
Carpobalsami,		
Spicæ nardi indicæ	}	ana. ij, drames and a half.
Costi,		
Cyperj,		
Schoenanthi,		
Piperis longi,		
Piperis nigri,		
Sabinæ,		
Pyrethri,	}	foure pounce.
Olei,		
Vini,		tyvo pounce,

Dissolue the Opopanax and Galbanum in some part of the wyne. Then brouse the other thinges and put them to the oyle and rest of the wyne. And boyle them vntyll the wyne be consumed. Then strayne it and put the Gummes and Wyne in whych they were dissolved to it, and boyle them together vntyll the wyne be consumed and reserue it to thy vse.

It is a singular remedye for al colde passions especially of the ioyntes and neruous partes. It healeth the palsey crampe & rigoures in feuers if you anoynt the backe with it. &c.

Oleum Costinum Mesuar.

Rec. Costi,           two vnccs.  
 Casia           one vncc.  
 Summitatum sampsuchi, viii. vnccs.  
 Vini quantum sufficit  
 Olei oliuarum, thre pounce,

Worse these and macerate them. ij. daies, then boyle them in a duple vessell vntil the consumption of the wyne and reserue it to thy vse. &c.

It openeth obstructions helpeth the sinowye partes muscles tendons and ligamentes. Also the stomacke, and lyuer, and helpeth muche to the increasynge of good colour in the body. &c.

Oleum papauerinum.

Rec. Capitem papaueris,  
 Foliorum papaueris } ana partes xqua  
 Florum papaueris, } les.  
 Olei quantum sufficit.

Ecce. iiii.

But





**Rec.** Myrrha, }  
 Aloes, }  
 Spicæ nardi, }  
 Sanguinis draconis, } ana. ij. dragmes.  
 Thuris, }  
 Mumia, }  
 Opopanacis, }  
 Carpobalsami, }  
 Bdellij, }  
 Hammoniæ, }  
 Sarcocollæ, }  
 Croci, } ana. ij. dragmes.  
 Mastiches, }  
 Gummi arabici, }  
 Styracis liquide, }  
 Ladani, }  
 Castorei, } ana. ij. dragmes, & a halfe.  
 Mastiches, } halfe a dragme.  
 Terebinthinæ, ad pondus omnium.

Use those that are to be used, and  
 mixe them together, and destill them in a glasse  
 a lembike according to arte.

It is of greate force and strengthe agaynst  
 those infirmities, whiche sprynge of colde  
 causes. &c.

Ecc.v.

Oleum



Castorij,  
 Spicæ nardi,  
 Cububæ,  
 Maceris,  
 Cinnamomi,  
 Granorū paradisi,  
 Corticis citri,  
 Olei Terebinthinæ, omnium  
 pondus.

} ana. j. dragme.

Put all these together, and distill them by a  
 Glasse alimbecke, and reserue it to thy vse.

This is the Baulme wherewith greene  
 and freshe woundes are spedilye cured and  
 healed, and it hath merueylous vertues as  
 shall appeare to hym that putteth it in prac-  
 tise.

Balsamum viride nostræ in-  
 uentionis.

Rec. Olei Rosarum, one pounce & a halfe.  
 Put it in a panne, and put thereto

Rorisemarine,  
 Caphare,

} ana. iij. vncc.

Let

## The seconde booke of

Let them be brosed befoze you put them in,  
then take.

Malicorij      j.vnce and a halfe.  
Ligni vite    tvvo vnces.

Weynge made in fyne Powder then boyle all  
these together the space of an hower, straine  
them and put to the streanyng.

Terebinthinæ i.pounde.  
Aquæ vite iiii.times stilled, one pound  
put into your aqua vite.  
Aloes Cicotrinæ, i.vnce.  
Rubarbaræ, i.vnce and a halfe.

Let these be made in fyne powder and let it  
stande two dayes infused, then strayne it, and  
put the Aqua vite so strayned to your oyle and  
Turpentyne aforesayde, then sette it on the  
fyre and let it boyle a lytle, tyll the most parte  
of the Aqua vite be consumed, then take  
pouder of.

Mastiches }  
Olibani    } ana foure vnces.  
Viridis eris }  
Lambricorū puluerifat } ana.ii.vnce.

¶



W<sup>ash</sup>e your woymes fyfte in whyte wyne,  
then boyle all these thynges together a lyttle  
space, then take it from the fyre and sturre it tyl  
that it be colde, and so vled accoꝝdyng to arte.

Balsamum artificia Lullij.

Rec. Terebinthinae j. pound and a half.

Galbani, two vnces.

Aloes cicotrinae,

Mastiches,

Caryophil,

Galange

Cinnamomi,

Nucum mustat.

Cubeborum

Gummi hedere, halfe an vnce.

ana. i. vnce.

When all these is well beaten, myre them  
and destyll them in a Limbecke of glasse wyth  
a slowe fyre first, and receiue the fyre by it selfe  
seuerally: then increasynge the fyre, a water  
some what reddishe wyll come, and after in-  
creasynge it more, an oyle of redde colour, and so  
doe tyl nothyng runne any more, chaunginge  
the reseuer thise. This oyle hath al the vertues  
of true Balme; for it sinketh in the water, and  
courdeth

## The second booke of

courdeth milke by and by: for if one droppe of it warme be put into a pynte of mylke, it shall forthwith become courded. The firste liqoz is called water of balme, the second oyle of balme the thyrde Baline artificiall. The first is profitable against the runninge of the eares, yf two or thre droppes morning and euenynge be put into them, also dropt into the eyes, it amendeth the blearnes, & consumeth the tearss, it doth meruelously restraine superfluous humours in any part of the body. It taketh away the tothach if they be washt therewith, & kill the wormes if there be any in them. The thyrde liqoz wyll suffer no venom: for it is an bitter enemye & destruction to spiders and Serpentes, two or thre droppes being let droppe into any venomous biting, do make it hole strait. If thou draw a circle with this liqoz, & shut a venomous beast therein, it shall dye there rather then go out of it. To be short, it doth all the same thynges that triacle doth, but more effectually all thynges. Beyng powdered or put vpon any impostume, with in .ix. dayes it healeth them, and likewise a fistulaye, be it neuer so yll: and also, Poli me tangere all diseases bredde of fleame and colde humours it healeth them, yf a linnen cloth dypped in it be layde vpon the place where the grease is, it putteth away utterly the palsey and all trumblinge of members, it strengthneth meruelously the sinewes

newes: It is whotter then the first and second, if a man put a droppe of it in hys hand, it perceith strayte without greese. To conclud, it doth many other thynge, and all diseases rysen of a cold cause, it health them, if they vse it ryght accozding to arte. All this is Lullius sayng.

Aliud Balsamum Dorantij.

Rec Ammoniacci,	}	ana halfe an vnce.
Opopanacis,		
Resine pine,		
Bdellij,		
Mastiches,		
Galbani,		
Gummi eleme,		
Olibani,		
Myrrhe,		
Sarcocollæ,		
Xylobalsami,	i. vnce.	
Olei benedictæ,	}	ana one vnce and a halfe.
Laurini		
Balsami Gul. Placentini,	half an vnce	
		Sanguinis

The second booke of

Sanguinis draconis, } ana. ij. dragmes  
Laudani puri, }

Spicæ nardi,  
Castorij,  
Galange,  
Cubeborum,  
Cinamomi,  
Cardomomi,  
Granorum paradisi,  
Corticis citri, } ana. j. dragme.

Olei Terebinthinæ, ad pondus  
omnium.

Let all those bee made in powder that are to  
bee made in powder, and the Gummes that  
can not bee made in powder, lette them bee  
cutte in smalle peeces, and putte into a  
Glasse vessell, with the Oyle and Balme  
aforesayde, and let them lye in sleepe nyne  
dayes, then destill them in Balneo maria, the  
the space of foure houres, then let them stande  
seuen dayes moze, and destill them agayne as  
is aforesayde, then strayne them. So haue you  
a precious Balme, whiche you maye keepe to  
your vse, for the curynge of woundes, bothe in  
the similar and instrumentall partes.

Wale

Balsamum ex intestinię terrę, nostrę Inventionis

Rec. Lumbricorum halfe a pounce. put them in white wine to purge them one daye, then set them & make them cleane from all earthye matter, then stampe them finely and put to the one quart of good Malinesie, & one quart of oile of Juniper, boyle them all together till the wyne be consumed, then strayne it, and adde to the straying.

Opopanacis }  
 Ammoniati } ana i. vnces.  
 Gummi Arabici, foure vnces.

Resolued in benegre accoꝝding to art.

Olibani, }  
 Mastiches, } ana ii. vnces and a halfe.  
 Myrrhæ }  
 Sang. draconis } ana. j. vnce  
 Olei Hpyrici, }  
 Terebinthinæ } ana, vi. vnces.  
 Boracis, iiii. vnces.  
 Aquę vite fortissime, iiii. vnce & a half,  
 Croci, ij. dragmes  
 Terebinthinæ. tvvelue vnces.

℞℞.i.

Boyle



The seconde booke of

Boyle all these together in a bodye of glasse,  
in Balneo maria, vnto the wyne and Aqua vite  
be consumed, then let it stande twentye dayes  
infused, and after that boyle it agayne two ho-  
wers and so strayne it, and kepe it to your vse.  
This Balme is mooste precious in woundes of  
nerues and iunctures of all other.

Balsamum ex Croco nostre inuen-  
tionis.

Rec. Foliorū consolide maioris  
Consolidæ minoris,  
Marrubie,  
Centaurij  
Hiperice,  
Florum Rorismarini,  
Chamamille, } ana. M. i.  
} ana M. f.

Let your flowers and herbes be dry and grosse  
beaten, and put to them ons pynte of Oleum  
Lumbricorum, and one pynte of Palmesye.  
Then let them boyle all together softely, the  
space of two howers in a pottle very closely stop-  
ped, then straine it and adde to the straining.

Mastiches,  
Myrrhe } ana one vnce.

Olibani

Olibani,	}	ana, i. vnce and a half.
Croci		
Sang. draconis.	}	ana halfe a vnce.
Gummi dragagant		
Sarcocollæ,		
Laudani	}	ana, two dragmes.
Castorij		
Bingemj,		

Take all these in powder then adde to them  
 Oleorum Terebinthinæ, iiii, vnces,  
 Spicæ nardi, one vnce.  
 Terebinthinæ lotē, vi. vnces.

Boyle all these in Balneo mariz, according to  
 arte.

This Balme is most precious in woundes  
 of the best that perceth thowso into the bodye,  
 as I haue many times proued my selfe.

℞.ij.

Emplastrum

# Emplastrum de meli-

loto Mesuz.

Rec. Meliloti.	vj. vncces.	
Florum chamæmeli	} ana trvo dragmes.	
Foenigræci,		
Baccarum lauri,		
Radicum altheæ		
Comarum absinthij		
Seminis absinthij,	} ana. j, dragme and a halfe.	
Cardamomi		
Iridis		
Cyperij,		
Spicæ nardi.		
Casiç		
Seminis ammi		
Foliorum persici	three dranges.	
Hammoniæ,	tenne dragmes.	
Styracis	} ana. v . dragmes.	
Bdellij,		
Terebinthinæ	one vncc and a halfe.	
Ficus pinguis numero,	xii.	
Sepi hircini	} ana. ij . vncces and a halfe.	
Resinæ		
Picis,		
Ceræ	vj. vncces,	

Olei

Olei sampfucini	} ana. one pounce,
Olei nardini	
Confice, sic	
Fit decoctio,	
Meliloti	} ana. q. s.
Foenigræci	
Chamæmeli	

Boyle these vnto the consumption of the half then strayne them and put therto your percells synely made in pouder and boyle them againe addynge the oyles Turpentyne and Gummes dissolved in Veneger. Then put to the rottes and fyages beyng well brused and well boyled together. And myre all these together and make an emplaster according to arte.

It doth mollifie all hardnes of the stomacke liuer splene and other intrayles. It doeth also cease behement dolour and payne. And healeth flatulentnes of Hypochondria. &c.

Dia Meliloton Andromachi ex Galeno.

Fff.iiij.

Rec,

The seconde booke of

Rec. Nardi gallicæ,  
Cyperī  
Iridis,  
Myrrhæ,  
Crocī,            foure dragmes.  
Meliloti,       fyue and tvventy dragmes.  
Hammoniāci  
Terebinthinæ,       } ana, one dragme,  
Ceræ    one hundred dragmes,  
Olei Cyprini, fyxe vnces.  
Aceti, q. s.,  
Fiat emplastrum.

This emplaster is of lyke bertue wpth that  
which is next befoze discribed, &c.

Emplastrum ex fermento Democriti  
ex Mesue,

Rec Mellis  
Fermenti,       } ana one pounce,  
Visci quercini, foure vnces,  
Hammo-



Hámoniaci in aqua foenigręci , ant lacte  
 mori arboris, three vnces,  
 Fęcis olei veteris, q, s,  
 Fiat Emplastrum,

This emplaſter is of greate vertue in dꝛaw  
 ing out thornes and thyngeſ ſyred in any place.  
 Alſo in taking oute the bones broken of Cran  
 ium fractured yea although they beſyred in  
 Dura and Pia mater.

Aliud Simile.

Rec. Fermenti,	} ana i. dragme.
Mellis,	
Olei Communis	
Lactis muliebris	
Vitelli ouorum	
Fiat Emplaſtrum,	

It doth digeſt and maturate Inflammations  
 and bꝛeaketh apoſtemes. And yf to thys recepte  
 you adde Bdellium & Farina hordei it dꝛaweth  
 oute thornes ſyred : yea and ſo muche the bet  
 ter yf you put to it of Galbanum dyſſolued in  
 Venegyger. &c.

Fff.iiii.

Dia Chalciteo s

The seconde booke of

Dia Chalciteos Galeni , palmeum vnguentum dictum.

Rec. Axungia porci veteris a membranis  
per Ligationem et Colationem purgata,  
two pounde.

Olei veteris,

Lithargyri triti

Chalcitidis vstę

} ana three  
pounde.

four vnces,

Boyle all on the fyre and sturre them wpth  
a stycke new taken of the date tree (you maie in  
the place hereof vse a sprigge of the Dke) and  
when as it is well neare boyled adde thereto  
of the tender croppes of the Date tree newe  
gathered and cutte small foure vneces (you may  
in the place hereof vse the yonge buddes and  
twygges of the Dke) boyle all these vnto the  
thyckenes of a Cerote.

This is ryght good agaynst grene wounds,  
pestilentiall tumours, apostemes, burnynges,  
ruptures, contusions, and ecchymomata, &c.

Dia chilon Mesuę primę descriptionis.

Rec.

Rec. Muccaginis, } Seminis foenogreci } ana. j.  
 } Seminis lini, } vncc.  
 } Radicū altheæ, }

Lithargyri, one vncc, and a halfe.

Olei antiqui clari, thre vnccs.

The Lytharge muste be made in molte fyne powder and tempered with the Oyle . Then boyle them on a softe syer , syzrynge them alwayes with a sylse vntyll they bee well bodyed and incorporate together . Then put to your mucilages , and boyle them agayne vnto a sufficient thicknes.

It is good agaynst scyrhous of the Lyuer, Splene, Stomacke, and other partes , it mollieth all hardnesse. &c.

Alij addunt pulueris iridis, } ana. j. vncc.  
 Mucaginis Meliloti, }

Then it doeth mooze vehementlye resolue and maturate , and is a greater ceaser of doolour and payne.

Alij Olei veteris loco accipiunt.

The seconde booke of

Olei chamæmelini, }  
Olei irini, } ana. j. vncc, & half.

Pręstantius quoque fit,  
Addes etiam si voles.

Galbani, }  
Hammoniacy } ana. partes æquas.  
Sagapeni, }

Diachylon gummatum vulgus appellat.

Emplastrum Diachylon magnum  
Mesuz.

Rec. Lithargyri, one pounce.  
Chamæmelini, }  
Olei Trini, } ana. viij. vncc.  
Anathini, }  
Seminis leni, }  
Muca-Foenigręci }  
ginis, Altheæ, } ana. dragmes, xij. sc.  
Ficū pinguiū, }  
Vuarū passarū }

Succi,

	Iridis,	}	ana. dragmes xij. ſe.
Succi,	Scillæ,		
	Oefypi,		
	Ichthyocolle		
	Terebinthinæ		thre vnces.
	Refini pini,	}	ana. ij. vncc.
	Ceræ flauæ,		
	Fiat ceratum vt prius.		

It doeth digest and molifie all hardnesse, and therefore maye wyth great profite be applyed vnto schirrhous, and all other inflammations and tumours. &c.

Emplastrum Diachilon paruum  
Mesuq.

Rec.	Lithargyri,	vi. vnces.	
	Olei veteris,	one pounce.	
	Mucaginis Psyllij,	iiij. vnces	
	Mucaginis Seminis Hiosoyami.	j. vncc halfe.	
	Muca- Seminis lini,	}	ana. ij. vncc.
	ginis, Radicum althee		
	Fiat vt primum,		



The seconde booke of

It doeth digest and maturate tumours and  
apostemes which be whote. &c.

Emplastrum ex allijs Actij.

Rec. Ceræ,	two pounde.
Picis Greæ,	} ana. vj. vncc.
Medullæ ceruinæ,	
<i>ropperis</i> <u>Nitri albi,</u>	viiij. vncces,
Olei,	four pounde.
<i>alike</i> <u>Allia, num. xx,</u>	

The Garlyke beyng pyll'd, boyle in  
Oyle. Then strayne them, and adde to it  
Waxe, then Nitrum, and make Emplaster  
acco;dyng to arte.

It is of vertue agaynst all hardenesse, apo-  
stemes, selons, bubones, fistulas, impetigines  
humidas, and hardenesse of the pappes.

*new wounde* Emplastrum ad vulnera re-  
centia.

Called in the Enchiridion, the greene  
wounde plaster.

Rec.

Rec. Refinæ, è Pino,	} ana. ii, pounce	
Ceræ virginæ		
Refinæ,	} ana. xij. vncces	/ 50 1/2
<u>Seui ceruii,</u>		
Colophonij,	viii. vncces	
Sarcocolle,	iiij. vncces	
Terebinthine,	half a pounce	
Mastiches,	} ana. iiij. vncces.	
Olibani,		
Dragacanthi,	} ana. j. vncces. & half.	
Gummi arabici,		
Galbani,		
Ammoniacy,		
Storacis calamitæ,	ij. vncces.	
Storacis liquidæ,	iiij. vncces.	

Succorine

The second booke of

Succorum Pyrolę vtriusq3  
Saracenicę,  
Diareuficę,  
Veronicę,  
Solifessequij,  
Consolidę minoris,  
Arthemisicę,  
Plätaginis vtriusq3  
Betonicę,  
Agrimonicę,  
Matrisilicę,  
Cerefolij,  
Saluicę,  
Verbenę,  
Pilosilicę,

} ana three  
pounds

Boyle the iuses of these herbes, with the  
Mare Rosine Colophonium and heartes suet  
on a softe fyre, with coles vntyll two partes bee  
consumed. Then put to it Turpentyne, and  
the gummies beyng dissolved in Winger of  
Roses and let them boyle a space. Then put  
to it Stirac liquida, and Calamita, and yf you  
wyll haue it sweete smellynge you shall adde  
moschi ii. scruples. Strayn these through a cloth  
and let it stande a nyghte, and the nexte daye  
make

make it in rolles with Oyle of Roses. But if you wyll haue the Plaster greener, put to it Succi solatri, Sambuci, chelidonij, ana. iij. poūd. And boyle your Plaster agayne there wyth, but not longe.

This is an excellent Plaster in all greene and freshe woundes. For it doeth mundifie incarnate and consolidate without maner of tentes, it is of merueylous vertues, and therefore had in these dayes in moze frequent vse. There bee diuers compositions; But in my opinion this is the best.

Emplastrum Iudæicum, called the  
Ievves Plaster.

Rec. Ceræ albæ, foure pounce.

Resinæ de Pino,

Resinæ Terebinthinæ } ana. ij. poūd.

Olei rosati, one pounce,

Mastiches,

Olibani } ana. two vnce.

Myrrhæ,

Rosarum.

The second booke of

Rosarum recentium,	iiij. vnce.
Vini rubei,	iii. pounce.
Succorum pirole,	} ana. quantū sufficit.
Diapensię,	
Matrisilue,	
Saracenicę,	
Herbæ tunici,	
Solissequij,	
Bethonicę,	
Consolidæ minoris	
Fumariæ,	
plantaginis vtriusq3	
Valerianæ,	

Wrouse the herbes, and take of the iules, and put to the Wyne: and boyle them on the fyre a good space. Then strayne them, and put to it so strayed, Ware, Turpentyne, Rosen and Oyle. Then seethe the Roses: after strayne these, and put them in a Kettle, and seethe them fyue or sixe houres. Then take it from the fyre, and let it be colde. The nexte daye solowynge melte it agayne, and adde to it Masticke, Frankensence, and Myrre, and suffer it a lytle to boyle together. After let it coole, and make it in rolles.

This Emplaster hath the lyke vertues that  
the



the other goyng befoze . For it doeth mundifie , incarnate and consolidate all greene and frethe woundes , and healeth them wythout tentes .

Emplastrum attractium Brunsvvicensis.

Rec. Apostolicon Nicolai,           two vnce.  
 Magnetis orientalis,           half an vnce.  
 Pinguidinis leporinæ,           } ana. halfe an  
 Olei canabis,                       } vnce.

Melte the Oyle and the Hares grease together : and then put to it , the percelles aboue sayde , and make thereof an Emplaster accordyng to arte.

This Emplaster is muche praysed in drawinge oute anye iron fired in woundes , as arrowe heades, mayle, shotte, oz such lyke.

Emplastrum gratia dei vocatum.

Rec. Terebinthinę,           halfe a pound.  
 Resinę,                       one pound.

Gggj.

Cerz,



Pingued. Caponis    two vnces.  
 Sepi vitulini,        } ana, halfe a  
 Vaccini,                } pounce.  
 Axungie,                seven vnces.  
 Lithargyri auri } ana, three vnces  
 Argenti,                } and a halfe.  
 Miniij,                 }  
 Cerusæ                 } ana four vnces.  
 Terebinthine, }  
 Cerę that is sufficient.

Let all these be boyled together, tyll it be  
 blacke, and make thereof a plaster accoꝝdyng to  
 art. This plaster is good for old sores, & is the  
 experiment of Ioannes de Vigo,

### Emplastrum Tripharmacum.

Rec. Olei comunis,    four pounce.  
 Lithargyri auri,    two pounce.  
 Aceti fortissi.    halfe a pounce,

Make hereof a plaster accoꝝdyng to arte,  
 Emplastrum tripharmacum. Is good to make  
 the growe in woundes and to consolidate and  
 heale them,

Egg. ii.

The

The second booke of

The making of the white mucy-  
lage plaster called the Diachilon  
paruum.

Take fyrste your Marche malowe rotes and  
washe them, and picke them very cleane, then  
lyse them and take forth the pythe and caste it  
awaye, and cut the other in small peeces, then  
stampe them in a mortar, and put two pounce  
of that same you haue stamped into a newe ear-  
then pottle, wyth foure vnces of Lyneseede and  
foure vnces of Fenegreke seede in grose powder:  
then put vnto them, one quarte of whyte wine  
and one quart of water, and sturre it well to-  
gether, and let the water be boiling hote. When  
let it stande foure or fyue dayes, tyll it come to  
perfite mucylage, euery day sturring it, then  
strayne it and so you haue your mucylage.

When take Vitarge of leide in fyne powder  
searsed thzough a fine cloth. vi. pound, comon  
oyle foure quartes. When boile oyle and the Vi-  
targe vpon a soft fire tyll it fall to a plaster, and  
then take a pynte of your mucylage, and put it  
in by litle and litle, least it runne ouer the pan, &  
alwaies sturre it, so doying tyll you haue put in  
one quart of your mucylage, and so stzre it a  
litle space after tyll it begyn to waxe colde, then  
putte in the reste of your mucylage, when  
you perceiue it wyll not runne ouer the pan, &  
so

So continuallye labour and worke it , tyll it be  
 verye whyte , then make it by in roules and  
 kepe it to your vse.

Emplastrum mucilagineum ad Resoluen-  
 dum humores in tibijs.

This plaster was deuised for king  
 Henrie the eyghte to amende the  
 swelling in his legges.

**T**Ake the rotes of Marche malowes washe &  
 picke them cleane, then slitte the and take  
 oute the inner pithe and caste it away, and  
 take the bypper sayze whyte parte and cut them  
 in smalle pceces , and brouse them in a moztar  
 and thereof take one pounce and putte them  
 in a newe earthen pote and adde therto of lyne-  
 seve and Fenegreke ana. two vnces a litle bro-  
 sed in a moztar , then put thereto malmise and  
 whyte wyne ana. a pynte , and sturre altoget-  
 her and lette them stande infused, two or thre  
 dayes , then set them ouer a soft fire and sturre  
 it well tyll it ware thicke and slimme , then  
 take it of and straine it through a newe cannes  
 clothe, and thus haue you your mucylage rea-  
 dye and then to make your plaster. Take fyne  
 Oyle of Roses a quarte and washe it well  
 Egg. iij. wyth



The seconde booke of

With whyte wyne and rose water . Then take the oyle cleane from the water and wyne , & set it ouer the fire in a base pan alwaies sturringe it and put thereto the pouder of .

Lythargyri auri	}	ana, viij. vnccs.
Lythargyri argenti,		
Cerusa,		vi. vnccs.
Corallo. rub.		ij. vnccs.
Boli armoniaci	}	ana one vncc.
Sangui. draconis,		

And in anye wyse make them in fyne pouder searid, then put them into the oyle ouer the fire alwaies sturring, and let not the fier be to bigge for burning of the stuffe, and when it beginneth to waxe thicke, then put in of the sayd mucylage x. vncces by litle and litle at ones , or els it wyll boile ouer the pan, and when it is boyled enough ye shall perceyue by the hardnes or softnes thereof, if thou droppe a lytle of it on a dishe botome or cold stone then take it from the fyze, and whē it is nere cold, make it in roules and lape them in parchement, and kepe them to your vse.

Emplastrum pro Chameleontiasī nostrae  
inventionis.

Rec.

Rec. Axungia,                   tvvo pounde.  
 Aquarum rosarum,           } ana, iiii. vncces.  
 Plantaginis,

Wash it wel vntil the waters be consumed in  
 to the sayd grease, then let it stande the space of  
 viii. daies, then put it in a pan ouer the fyze and  
 adde to it.

Olei rosarum,   one pounde,  
 Minij,           tvvo pounde,  
 Aceti optimi, one pynte.

Let the barkes of Elm remaine in the be-  
 neger iiii . dayes infused, make hereof a plaster  
 accoꝝdng to art. This is a good plaster for sca-  
 bes for byles & for soze legges and many other  
 thynges, for it molifieth & healeth gentlye and  
 taketh awaye payne. Thys plaster I dyd vse  
 much in y<sup>e</sup> scabes of Chameliontiafi, after they  
 were mundified wyth marcurye precipitate:  
 And also in swelling of ioyntes & in the goute  
 and wyth thys plaster I dyd great cures after  
 the body was wel purged, & if thou would haue  
 it to heale an olde soze, thou must put in a ly-  
 tle coperos in powder in to the beneger. And  
 so boyle it accoꝝdng to arte.

Emplastrum Cerusæ.

Rec. Olei rosati,                   two pounde.  
 Axungia lotę in aqua rosacia &  
 vino,                               one pounde.  
 Cerusæ puluerisatę, foure pound  
 Cera alba,                       viiij. vncc.

Melte your Ware wyth your Oyle and  
 Hogges grease , then put in your Ceruse in  
 fyne powder by litle and litle , euer styringe it  
 for burnynge to the bottome , vntyll it come  
 to the forme of a Plaster , the whyche you  
 maye knowe by droppynge some of it vppon a  
 Stone, or a dishe bottome, vntyll you haue it ac-  
 cordynge to your mynde . Thys Plaster is  
 good for scabbes in an euyl whote complexion,  
 for it doeth quicklye drye them , and skynne  
 them. If you washe it wyth whyte Wyne,  
 it wyll be muche the better.

Emplastrum Calisiensæ.

Rec.

Rec. Olei rosati, j. pounce, iiii. vnce.  
 Ceræ albæ, j. pounce,  
 Cerusæ Venetæ pul. j. pounce.

Boyle all these vpon a softe fyre, euermore  
 syringe it tyll it come to the forme a Plaster,  
 and than take it from the fyre, and in the cool-  
 ynge putte in of Campher, two dragmes  
 in fyne powder, and make it vp in rolles.

This Plaster is good to cicatrice vlcera-  
 tions, after they bee well mundified and incar-  
 ned. It is good to dnye vp scabbes, when the bo-  
 dye is well purged befoze.

Emplastrum de specibus, for ache  
 and payne in the sholders, armes,  
 or some other places of the bodye.

Rec. Resinæ, }  
 Peresinæ, } ana. j. pounce.  
 Ceræ albæ, }  
 Colophonij, viij. vnce.  
 Vini rubei, ii. pounce.

Ggg.v.

Caryopo-

The seconde booke of

Caryophyllorum,	} ana. one vncc.
Maceris,	
Olibani,	iiij. vncc.
Mastiches,	ij. vncc.
Myrrhæ,	j. vncc.
Croci,	halfe an vncc.

Make those in fyne powder that are to bee made in powder, and boyle your Rosync, Pirrosyn and Ware, with foure vncc of deare suet, and strayne it throzowe a Canuas clothe. Then set it on the sjer agayne vntyll it boyle, and when it boyleth, take it from the sjer, and put in your pouders and styre it, vntyll it bee colde: and in the coolynge, put in the redde Wyne, and labour it together, and make it bp in Rolles. And yf you adde vnto thys, one vncc of the leaues of Rewe dyed & made in fyne powder, and sullys searsed, it is then good for Sciaticus, & other colde sickenneses of the ioyntes, yf the bodye bee well purged before with Pylls of Hermodactolior, or other purgations meete for the same purpose. &c.

Emplastrum Ianuacense.

Rec.



**Rec.** Succij plantaginis }  
 Betonice, } ana. j. pounde.  
 Apij, }  
 Picis, } ana. j. pounde.  
 Perrosinæ, }  
 Cera, ij. pounde.  
 Terebinthine, foure vnce.  
 Rorismarine puluerifata, tvvo vnce.

Melte your Piche, Rosyne, Ware, and Turpentyne together with,

Olei Ienuperæ, tvvo vnce.

Then put in your powder of Rosemary leaues  
 Syrring it verie well, then put in your iuse by  
 lytle and lytle, euer Syrring it continually vntill  
 tyll it bee colde, and so make it by in relles, and  
 kepe it to your vse.

Emplastrum nigrum Ioannis de Vigo  
 & D. Buttes, for blistering, burninge,  
 ache, and excoiation, comning of whote  
 humours, and for all whote vlcérations.

Take

## The seconde booke of

Take vnblecked Lime, and quench it in water seuen tymes, and in whyte wyne two tymes then take of that powder, one vnce and a halfe.

Cerufæ, one vnce.

Tutia, one dragme.

Olei rosati one pynte.

Sepi vitulini foure vnces.

Succi plantaginis

Solatri,

Lactuce

Centumnodij

} ana, two vnces.

Boyle all these iuyces with the Oyle and the suiet on a softe fyre, tyll the iuyce be consumed then putte thereto.

Vnguenti rosarum, one vnce.

Ceræ albæ one vnce.

And boyle them agayn euer sturrying it with a splater then put thereto your menecralls finely poudered and searched, and when it is sufficiently boyled, take it from the fyre, and when it is colde put it in a moyter of brasse and labor it wel, then put it in a bore, and thereof make your plaster on a linnen clothe.

Emplastrum

## Emplastrum Iacobi.

Rec. Lapidis calaminaris	}	ana, ii. vnccs.
Terræ Sigillatæ		
Lapidis Lazule,		
Lapidis sanguinaris,		
Lapidis Emiri,	}	ana two vnccs
Sanguinis draconis		
Boli armeni,		

Let all these be made in verye fyne powder,  
then take oyle of Roses a pynte and set it ouer  
a softe fyre, puttyng thereto.

Ceræ albę	halfe a pounce,
Sepi cerniuę,	foure vnccs

And when they be relented put thereto all the  
powders and sturre them wel and let them boile  
a lytle whyle, then take it downe and put there  
to in fyne powder.

Mastiches,	}	ana. one vncc.
Olibani.		

and

The second booke of

And styre it, and when it is almoste colde,  
put thereto,

Terebinthinæ, ij.vnces.  
Champhoræ, ij.dragmes.

Made in fyne powder and well mingled, and  
make it by in rolles accoꝝdyng to arte, and  
kepe it in leather, and so vse it,

Emplastrum delicatium, D. Butti mi-  
litis & medici regij.

Rec. Olei rosati, viij.vnce.  
Ceruse, } ana. ij.vnce.  
Mindij, }  
Lithargyri auri, }  
Sanguinis draconis, } ana. j.vnce.  
Boli armeni, }  
Camphoræ, ij.dragmes.

Make

Take all these mynozalles in fyne powder  
and mixe with the Dyle, and set it on a softe  
sper alwayes styrreng it, and let them boyle,  
tyll they bee plasserlyke, and so make it by in  
rolles. And if you adde vnto thys Plaster in  
the boylinge therof, foure vneces of Vineger  
of Roses, it wyll bee muche better to drye and  
defende the members from accidentes. This  
Plaster was well proued by kyng Henrye the  
eyght for his legges.

Emplastrum Gul. Firmigonis militis.

Rec. Lithargyri puluerisate, .j. pounce,  
Olei rosati, one pynte,  
Cera alba, two vnce.  
Myrrha, } ana. one vnce.  
Olibani, }  
Vini albi, } ana. half a pound.  
Vrine, }  
Aceti albi, a quar. of a pound.  
Solatri, }  
Plantaginis, } ana. M. sc.

Put



## The second booke of

Put the Herbes into a mortar wyth the Vineger, and stampe them together, then wyngge oute the iuse, and put vnto the Vineger and Wyne aforesayde. And thus you must make your Plaster. Melte your Oyle and Ware together in a sayre Panne, and let it boyle. Then by lytle and lytle, put in your Litharge, euer styrrynge it. Afterwardes put in your iuses by lytle and lytle, tyll you haue put in all. But bee sure it bee well sturred, for sittynge to the bottome. Your panne must bee of a good bygnesse, or elles when you put in your iuses, it wyll boyle ouer the panne. So let it boyle euer styrrynge it well, tyll the iuses be consumed. Then laste of all put in your Myrre and Olibanum in fyne powder, and styrrer it tyl it bee colde, yf it bee to harde make it softer wyth Oyle of Roses, yf it bee to softe, boyle it a lytle moore accoording to arte.

This is a speciall Plaster, for all kyndes of vlcérations, as well of the legges, as of other partes of the bodye, for it hath vertue alteratiue, resoluatiue, and excicatiue. Provided alwayes that the bodye bee vniuersally purged, as often as need shall require.

Cerates

# Cerates.

55.

## Hydrelæon Galeni.

Rec. Lithargyri argenti, one pounce.  
Aquæ limpidaë } ana tyvo pounce.  
Olei puri, }

The Litharge is to be made in most fine powder, and the other to be styred in a mortar of stone, then boyle them on a soft and smalle fyze of coales. The medicyne is to be made in the sunne the dape beyng sayze that it maye be the whyter, and the fyze vanyshinge you must still adde fresh coales. And boyle these to the substance and thiknes of a cerote.

It doth refrigerate and therefore is the vse of it profitable in vlcers, for it suffereth not any humour, to flowe vnto them, and that whych is alreadye come it putteth to the partes adiacent. Therefore it healeth ychinges and malignant vlcers. &c.

## Oxelaum Galeni.

Hhh.j.

Rec.

The seconde booke of

Rec. Lithargyri argenti, one pounce.

Olei veteris, }  
Aceti optimi } ana two pounce.

Confice vt supra.

Componitur etiam ex Olei et aceti  
two pound and a halfe: vel ex sin-  
gulorum three pounce, tunc enim ni-  
grius est et valentins.

It doth dry fistulas which haue not callus in-  
durated & cureth them. And doth conglutinate  
greene and bloody woundes and such like, &c.

Oenelaum Galeni.

Rec. Lithargyri argenti one pounce.

Olei clari, }  
Vini albi optimi } ana two pounce.

Coque et confice vt superiora.

It doth exsiccate and dry, therefore it is good  
agaynst fluxes and reumatike passions: and  
it healeth greene woundes.

Dia

## Dia pipereos Galeni.

Rec. Lithargyri argenti, } ana one pound.  
 Cerusæ, }  
 Olei communis, two pounde.  
 Ceræ fyxe vnces.  
 Terebinthinæ three vnces.  
 Thuris, one vnce and a half.  
 Aluminis, fyxe dragmes,  
 Piperis three dragmes,  
 Fiat in hunc modum.

The Lytharge beyng made in fyne powder  
 is to be boyled wpyth oyle, in the sunne and so  
 longe it is to be boyled vntyll it come to sub-  
 stance of an emplaster and will not cleaue to  
 your handes. Then put to it the Turpentyne  
 and ware. These beyng molten you shall adde  
 your pepper Frankensence and alome made in  
 fine powder. Laste of all put to your ceruse also  
 finely poudzed. And alwayes in the boylunge  
 sturte them and boyle them so longe vntill they  
 come to the thicknes of a cerote.

It healeth the blcers and sores in olde men  
 and those that haue softe bodyes. And further  
 cureth all blcers whych wyll not wythout dis-  
 scultie come to a cicatrice.

Hhh.ij.

Ceratum

The seconde booke of

Ceratum è Cerusæ.

Rec. Cerusæ, one pounce and a halfe.  
Olei rosati, two pound,  
Ceræ candidæ, foure vnces.

The ware beyng molten, put to the Ceruse  
made in fyne powder and boyle it so long vntyll  
it commeth to blacke colour.

It cureth burnynges, skaldynges, erysipelas  
scabbes and all hote vlcers. &c.

Ceratum è Betonica, Capensis.

Rec. Terebinthinæ }  
Resinæ pini, } ana iiij vnces.  
Ceræ flauæ, }  
Betonica pulueratæ, one vnce,  
Mastiches, } ana halfe an vnce.  
Thuris, }  
Mumie, } foure dragmes.  
Misce, Fiat malagma ad capitis vul-  
nera vtile.

It is ryghte profytable in paynes of the  
heade. &c.

Ceratum



## Ceratum Capitale, Carpenfis.

Rec. Terebinthinæ in vino maluatico, } ana,  
 sepius lotæ, } three  
 Resinæ pini, } vnce  
 Ceræ albę  
 Mumia, } one vnce & a halfe.

The Turpentyne Rosen and Ware being molten putte to the Pumpe made in fyne Pouder. Boyle them on the fyre, and sturre them continuallye. Then put these in a cleane vessell in which is rose vinegger made of malmesie foure pound. Let al these macerate xxiiij. howers, then expresse and wrynge oute the vinegger wyth your handes and kepe it in a vessell of glasse to thy vse. &c.

## Ceratum è Styrace, magistrale.

Rec. styracis liquidæ foure vnces.  
 Cerę flauę two vnces.  
 Thuris, } ana. i. vncc.  
 Myrrhæ }  
 Fiat ceratum secundum artem.

The seconde booke of

It doth aswage and cease hard tumores of the  
nerues and ioyntes and other partes.

Ceratum Gratia dei:

Rec. Galbani,  
Opopanacis,  
Aeruginis,  
Thuris,  
Aristolochiæ longæ  
Mastiches  
Myrrhæ,  
Hammoniaci, vnce j. dragme. ij.  
Cera, eyght vnces.  
Lithargyri } ana. 18. vnces  
Olei communis, }  
Bdellij       two vnces,  
Lapidis calaminaris } ana, one vnce.  
Lapidis Hematitidis }  
Olei absynthij,       foure vnces.  
Terebinthinæ,       syxe vnces,  
Fiat Ceratum.

It doth mollifie, mundifie and conglutynate,  
and therefore is ryght excellent in apostemes,  
tumours, and such like. It is profitable in filthy  
blcers, and doth conglutinate woundes. &c.

## Dia cadma Galeni.

Rec. Cadmia preparatę }  
Chalcitidis vstę, } ana, 16. dragmes.  
Cerę, lxxx, dragmes  
Colophonix, lxiiij, dragmes,  
Olei myrtini, one ponde,

It is ryght excellent in blcers which will not  
easely come to a Cicatrice, for it doeth cicatrise  
all blcers. &c.

## Ceratum de Salice.

Rec, Misy }  
Aluminis rotundi }  
Chalcitidis }  
Melantherij, } ana, vj, vnces.  
Aeruginis, }  
Aluminis scissilis }  
Gallarū accerbarum }

Hhh.iiij.

Ceruse

The seconde booke of

Cerufæ,  
Cere  
Resinæ Fricæ,  
Picis bruticę  
Bituminis,  
Olei omphacini,  
Foliorum salicis tenerorū

} ana two  
pounde.

Boyle the leaues in stronge vinegar, then dry  
them and make them in fyne powder . Then  
melte that is to be molten, and in the coolynge  
adde your other percelles made in fyne powder  
and make a cerote according to arte. &c.

It doth heale blcers malignant and those that  
wyl hardly be cured, Also erysipelas and ma-  
ny other affectes, as fistulas and other.

Barbarum paruum Galeni.

Rec. Picis nigre,  
Cere  
Resinę pini,  
Picis grece  
Bituminis,

} ana one pounde.

Lithargyri

Lithargyri,	tenne dragmes.
Cerufa,	} ana fyue dragmes.
Aeruginis,	
Opopanacis.	
Olei.	nine dragmes.

Let those thynges that are to bee beaten bee put in a mortar with Stronge Vineger . The other must bee molten on the fyre: And all be ynge mixed together , boyle them so longe vntyll they cleaue to thy fyngers . But yf thou wylt haue it apter to cease dolour and payne, adde to it of

Succi hyofcyami,	} ana. half a drag.
Opij,	

It is good to bee vsed in greene and freshe woundes , and for the bytynge of madde Dogges, also for inflammations of the ioyntes and the goute. &c.

### Barbarum magnum Galeni.

Rec. Picis,	vij. pounce.
Cera,	vij. pound. viij. vnce.

Hhh.v. Resinae



## The seconde booke of

Resinæ pini,	v. pounce. iiij vnce.
Bituminis,	iiij. pounce.
Olei,	j. pound. vj. vnce.
Lithargyri,	} ana. iiij. vnce.
Cerufæ,	
Aeruginis,	
Thuris,	
Aluminis liquidi,	j. vnce & a half.
Aluminis scissilis,	iiij. vnce,
Opopanacis,	} ana. xij. dragmes,
Squammæ æris,	
Galbani,	
Aloes,	} ana. iiij. dragmes.
Opij,	
Myrrhæ,	
Succi mandragoræ,	vi. dragmes,
Terebinthinæ,	ij. pounce.
Aceti,	v. pounce.

Make of these a Cerote in suche sorte as is mentioned in the description goynge before. &c.

It is of the lyke vertues wyth the other goynge before; but that where the other is vled in

smalle

smalle woundes , this is applyed to greates  
woundes. &c.

Isis ex Galeno.

Rec.	Ceræ,	C.dragmes.
	Terebinthinæ,	CC.dragmes.
	Squammæ xris,	} ana.viiij.dragmes.
	Aeruginis,	
	Aristolochiæ,	
	Thurirs,	
	Salis hammoniæ,	
	Aeris vsti,	} vj.dragmes.
	Aluminis vsti,	
	Myrræ,	} ana.xij.dragmes.
	Alocs,	
	Galbani,	
	Olei veteris,	x.vnce.

Boyle them as befoze , and your handes  
beynge wette in stronge Vineger , make of  
these rolles accoꝝdyng as is the vse , and  
after putte them in Vineger tenne dayes.  
Then take them oute , and reserue them to  
thy vse .

The seconde booke of

It is founde good for the head . Also againste olde and rebellous blcers , and those that bee bloodye . &c.

Ceratum viride Machæronis ex Galeno.

Rec. Olei rosati omphacini,    syxe vncc.  
Aristolochiæ,  
Galbani,  
Opopanacis,  
Hammoniaci,    } ana. i. vncc.  
Aeruginis,  
Myrrhæ  
Iridis,  
Terebinthinæ,    vij. vnccs. & a halfe.  
Ceræ tantundem.  
Fiat ceratum.

It serueth for all greene woundes , it putteth alwaye inflammations , and is vsed in blcers of the eyes and eares . It doeth ingender fleshe on the bones that are bare , and withoute fleshe , and doeth conglutinate speckelye . &c.

Dia

## Dia dictamini Galeni.

Rec. Olei veteris,	two pound & a halfe.
Lithargyri,	one pounce & a halfe.
Aeruginis,	one vnce.
Squammæ æris,	sixte dragmes.
Colophonix,	vj. vnce. ij. dragmes.
Pollinis thuris,	one vnce & a halfe.
Hammoniæ,	two vnce.
Aeris vsti,	one vnce.
Diphrygis,	} ana. vj. vnce.
Gentianæ,	
Propoleos,	} ana. j. vnce.
Aloes,	
Galbani,	one vnce & a halfe.
Aristolochiæ rot.	} ana. j. vnce.
Dictamni cretens.	
Ceræ,	xxv. dragmes.
Confice in hunc modum.	

Boyle your Litharge and Oyle so longe together vntyll that they are well boyled. Then put to your Crugo, and Squamma eris, let them a litle boyle. Then take them from the fyre, and adde to them Kolyne and Ammoniacum dissolved in Vineger, then put to Ware  
and

The second booke of

Picis nigra,	}	ana. j. dragme.
Picis greca,		
Cere albe,		
Cere rube,		
Radicum	}	ana. iij. dragmes.
consolida,		
Rosarum rubrarum,	}	ana. xvij. grains.
Myrrha,		
Aloes,		
Succi hypocistidis,	}	ana. vj. drag.
Gallarum immaturarū,		
Balauftiorum,		
Aristolochia rot.		
Visci quercini,	}	ana. ij. dragmes.
Terebinthine,		
Sanguinis hominis rufi.		ix. vncc.
Fit autem in hunc modum.		

Boyle the Wethers skynne whole with the heare and wolle on it in water vntyll it bee brought into the substance of Glewe, whiche thou shalt strayne. Take of thys strayned one pouñd put it in a new vessel in which the Meselto is resolued, then putte in the Lumbzyckes, after the Ware, Turpentyne, and Pasticke, these beynge molten, put to the Gummes dissolved



dissolued in Vineger , and boyle them to the thickness of a Cerote . Laste of all adde the pouders, and mire them together , and make them in rolles. &c.

It is of great force and vertue in ruptures, as hath often bene tried, &c.

Ceratum D. Guli. Buttes Medici, ad  
ulcera antiqua & phagedenica.

Rec,	Olei rosati,	} ana one pounce.
	Ceræ albæ	
	Cerusa,	

Set the Oyle and Ware together on a soft spher, and relent the Ware wyth the Oyle, then put in the Lead in fyne powder, euer styrre it well vntyll it waxe blacke. Then take it from the spher, and dippe there in peeces of fyne linnen clothe, and there is your searclothe.

Ceratum D. Gul. buttes Medici ad  
iuncturarum dolores.

℞. s.

℞et,

The seconde booke of

Rec. Olei rosati,	foure vnces.
Aceti,	tvvo vnces.
Lithargyri,	} ana one vnce.
Cerufæ	
Cerę albę,	
Scorię ferri preparatę,	

Set the oyle ouer the fier and put therto the beneyger and boyle them on a soft fyer to the beneyger be cleane consumed, then put in al the foresayde thynges fynely poudzed and searced, euer sturrying it, tyll it be plaster lyke, then dyps in your cloutes and when they be colde, stripe them wyth a sleeke stone and make them smouthe and vse them.

Ceratum viride Iamarici.

Rec. Olei rosati,	halfe a pounce.
Sepi bubulini,	one pounce,
Chelidoni,	} ana. thre vnces.
Allaluay, othervvise called sorrel de boies vel Panus conkelle	
Lybistici,	
Thymi,	
Saluie,	
	Ceræ,

Cerae	}	ana, two vnccs.
Terebinthinæ,		
Viridis eris,	}	ana, one vncc.
Aloës,		
Mastiches,	}	ana, halfe an vncc.
Olibani,		

Stampe all your herbes wyth your oyle and talow, and let them stande by the space of eight or nyne dayes, then boyle them till you haue taking the strength of the herbes, and put therto fyrst your ware, and let it boyle tyll the ware be molten, then take it from the fyr, and adde therebnto all the reste of your thynges in verye fyne powder, and laste of all when it is almost colde, put in your aloes, continually stirring tyll it be colde. Thys oyntment was made by the noble Chirurgian, Yamaricus, and is of moste excellent operation.

℞iij.ʒ.

Trochises

# Trochisce & pouders.

## Trochisci Andronij ex Andromacho.

Rec. Florum mali punici.   tenne dragmes.  
Gallæ omphacitidis,   viij. dragmes.  
Myrrhæ,                                 } ana, foure dragmes,  
Aristolochiæ                             }  
Calcanthi,                                 }  
Aluminis scissilis,                     } ana, ij. dragmes.  
Myfi,   }  
Formentur trochisci cum.  
Sapæ,   q. s.

It is good in grene woundes, it healeth fistulas, corrupted bones, and taketh away all superfluous fleshe, and is appoued in eatynge vlcers called Phagedenica. &c.

## Trochisci Polyidæ ex Andromacho.

Rec. Florum mali punici,   x. dragmes.  
Aluminis scissilis        ijj. dragmes,  
Thuris,                                 } ana iij. dragmes.  
Myrrhæ,                                 }  
Calcanthi,   tyvo dragmes.  
Fellis taurini,        syxe dragmes.  
Alocs                        eyghte dragmes.

For-

Formentur pastilli cum vini austeri. q. s.

It hath the lyke vertues and properties wyth  
the Trochisce befoze discribed.

Trochisci Musæ.

Rec. Aluminis scissilis, }  
 Aloes, } ana, vi, dragmes  
 Myrrhæ, }  
 Calcanthi, }  
 Croci, }  
 Crocomagmatis } ana iij, drag.  
 Florum malorum granatorum dome-  
 sticorum, foue dragmes.  
 Formentur pastilli cum vini odorati  
 et Mellis. ana, q. s.

This Trochisce hath many vertues and ser-  
 ueth dyuers vsys in Chirurgerie it dothe relaxe  
 and maturate. &c.

Trochisci de Minio erodentes Ioānis de vigo.

Rec. Medullæ panis non cocti benè fermen-  
 tati. foue dragmes.

Sublimati electi, one dragme.

Minij. halfe a dragme.

Aquæ rosarum, q. s.

℞i.℞i.

℞t



The seconde booke of

It taketh awaye all superfluous and spongi-  
ous flesh in blcers, it mundifieth filthie blcers,  
it mollifieth Callus, and doeth merucyplously  
heale and cure fistulas. &c.

Trochisci D. Gul. Cunynghami Medici.

Rec. Balauftiorum,  
Aluminis scifs.  
Sanguis draconis,  
Mastiches,  
Mumia  
Thuris,  
Myrrha,  
Lithargyri auri,  
Cerusæ venete,  
Centaury minoris,  
Helenij,  
Aristolochiæ rot.  
Crocij,  
Boli armeni preparati omniū pondus.

ana. j. drag. & a half  
ana. j. dragme.  
ana. halfe a drag.  
ij. Scruples.

Make all these in most fyne powder, and with  
plantain water, and aqua vite (in which is dis-  
solved of good triacle ij. dragmes) bying them in  
to Trochisse according to arte.

This Trochisse made in powder & tempered  
with

With plantaine water, & layed on spleagants,  
doeth put away inflammations, ceaseth fluxes,  
cureth herpes bothe esthomenus and miliaris,  
also erysipelas. Further in olde and maligne  
bleers which wil not cicatrize, it doth both mun-  
difie them, incarnate & make a perfect cicatrize,  
it hath many other vertues, whiche the Chi-  
rurgian vsing it rightly shal easely perceyue. &c.

## Puluis.

Puluis contra scabiem communis.

Rec. Sulphuris flauī, }  
Cumini, }  
Baccarū lauri, } ana. j. vnce.  
Staphidis agrię, }

Make hereof a powder, & when you wyl use  
it against the scabbes mixe it w<sup>th</sup> oyle of roses.

Alius Nicolai efficacior.

Rec. Lithagyri, }  
Hellebori nigri, } ana. j. vnce.  
Ii. iiij. Sulphu-

The seconde booke of  
 Sulphuris, }  
 Nitri, } ana. ij. dragmes.  
 Maiorana,

Make these in fyne powder, and vse it as  
 before. &c.

Fuluis Cephalicus Lucij ex  
 Galeno.

Rec. Iridis, iiiij. dragmes.  
 Aristolochiæ rotūdæ, }  
 Pollinis thuris, } ana. ij. drag.  
 Corticis radicū panacis. iiiij. drag.  
 Fiat puluis.

It healeth those paynetull soores  
 called Nomes.

Alius Tryphonis.

Rec. Corticis picæ, }  
 Squamæ æris, } ana. vj. dragmes.  
 Punicis combusti, }  
 Thuris, }  
 Iridis, }  
 Aristolochiæ rot. } ana. iiiij. dragmes.  
 Resinæ pini frictæ, }

Abes.

Aloes, }  
Myrrhæ, } ana. ij. dragmes.

Take these in fyne powder. It is verye good to take awaye the skales of corrupted bones. &c.

Alius eiusdem ad omnem  
hemorrhagian.

Rec. Thuris, one vnce.  
Aloes, halfe an vnce.  
Fiat puluis,

This powder muste bee mixed with the whyte of an Egge, and the heares an Hare small cutte, and apply it to the place where as the fluxe of blood is. &c.

Puluis incarnans, & sanguinem re-  
stringens, Ioannis de Vigo.

Rec. Aloes, }  
Myrrhæ, } ana. j. dragme.  
Sarcocollæ, one dragme & a halfe.  
Thuris, }  
Pollinis farinæ, } ana. ij. dragmes.  
Sanguinis

The seconde booke of

Sanguinis draconis, } ana, ij. dragmes  
Terra lemnia, } and a halfe.  
Tutia, }  
Lithargyri, } ana, one dragme.  
Tragacantha, }  
Fiat puluis tenuis.

This Powder doeth incarnate and cease  
the flure of bloode, and therefore the Authour  
gaue it the same name.

Puluis causticus sanguinem compri-  
mens Galeni.

Rec. Chalcitidis, C. scruples.  
Chalcanthi, L. scruples.  
Misyos torrefacti, xxv. scruples.  
Aeris vsti, xij. scruples & a halfe.  
Fiat puluis,

This Powder taketh awaye proude and  
spongius fleshe, it stayeth the flure of  
bloode, and maketh an Asker, for it is a poten-  
tiall cauterise. &c.

Preci-



Præcipitatus Ioannis de  
vigo.

Rec. Salis nitri, one pound and a halfe.  
Vitrioli romani, } ana. one pounce.  
Aluminis, }

Destyll these by a Lymbecke and take of  
thys water one pynte of Argent Alive one  
pounde . Put these in a Glasse styll wyth  
hys receptoye well luted , Cum luto sapi-  
entie, and styll it so long vntyll the glasse ware  
redde. Put alwaye the water , and the Ar-  
gent Alive that is combust ( whych the Al-  
chymistes call præcipitate ) make in fyne pou-  
der vppon a marble stone then myre hym with  
hys water agayne and destyll hym as befoze.  
Then breake the Glasse and take hym oute  
and make hym in fyne powder . After put  
hym in some vessell of Brase and wyth a flise  
also of Brasse sturre it beyng on a sharppe and  
greate fyze vntyll it looke lyke redde leade, &c.

Alius rubeus Brunsvicensis.

Rec,

The seconde booke of

Rec. Matris perlarū combust. }  
Pompholigos }  
Lithargyri, } ana i. vnce  
Boli armeni, }  
Terre Sigillatę }  
Sangu. draconis, }  
Aeruginis ęris }  
Caphure, one dragme, }

Make these in fine and subtyle powder.

This is a ryghte persyte ecciccative powder  
and wyll not suffer superfluous or yll fleshe to  
growe in the wounde.

Alius Puluis rubeus eius-  
dem,

Rec. Sanguinis draconis }  
Olibani, } ana, one vnce  
Aloes hepaticę }  
Sarcocollę, }

Iris

Irios halfe an vnce, fiat puluis,

This powder is vsed in stanchynge of bloude  
in woundes and is also an incarnatiue.

Puluis Longobardorum.

Rec. Sanguinis draconis, }  
Boli armeni, } ana, i. vnce  
Terre Sigillate, }  
Balaustiorum }  
Acatie, }  
Hypocisthidis } ana one vnce and a  
Nucum cupressi } halfe.  
Mumie }  
Mastiches } ana two dragmes,  
Thuris, }  
Sang. humani combust. one vnce.  
pilorum Leporis combust. thre vnces;  
fiat puluis.

The second booke of

It is excellent in lettynge of the fluxe of blood, and doeth also conglutinate woundes and toyne their sydes together, &c.

Puluis ad sanguinem  
sistendum.

Rec. Sanguinis draconis,	j.vnce & a halfe.
Olibani,	ij.vnce.
Mastiches,	j.vnce.
Aloes hepaticę	vj.dragmes.
Sarcocollę,	v.dragmes.
Iridis,	} ana. vncc. se.
Pulueris molaris,	

Make all these in fyne Powder, and keepe it in a Glasse.

This Powder doeth restraine the bleedynge of woundes, if they bee stitched accordynge to the arte of Chirurgie, and layed vppon the wounde, mixed wpyth the whyte of an Egge

an Egge , and a lyttle greene Balme layde  
 vppou lynte and so applyed to the wounde,  
 it maketh the fleeshe to growe together in  
 thozte tyme , and keepeth the wounde from  
 putrifaction and payne and suche like acci-  
 dentes.&c.

Puluis Lanfranci pro eodem.

Rec. Olibani,	two vnces.	
Sanguinis draconis,	} ana .one vnce and a halfe.	
Boli armoniaci,		
Mastiches,	} ana half an vnce.	
Pulueris molaris,		
Aloes cecotrinae,		three dragmes.

Make all these in fyne powder accozdyng to  
 arte and kepe them in a glasse and myre it with  
 the whyte of an Egge and grene Balme when  
 you wyl vse it as is afozesayde.

Puluis restrictiuus.

Rec. Pulueris molaris	} ana / fyxe, vnce	
Farinae Hordeacie,		
		Gummi



## The second booke of

Gummi dragaganti,	} ana, ij. vnccs,
Gummi arabici,	
Olibani,	
Mumia,	} ana. j. vncc.
Boli armeni,	

Make all these in fyne Powder accoꝝdyng  
to arte.

This powder is good foꝝ broken bones of the Legges, Armes, oꝝ any other place of the boꝝdye. And when you do minister it, it muste bee mingled wyth the whyte of an Egge, well beaten together, and it must bee spꝛedde vppon a linnen clothe double. And when you haue reduced and put the bone that is broken, into hys ryghte place agayne (so that it stande euen and strayghte as it dyd besoze) you maye applye this medicine vppon it, oꝝ rounde aboute it, as the cause doeth requyze. Layinge the member euen vppon a bourde, oꝝ vppon some thynge made foꝝ the same purpose. But you must be sure to defende the member wyth a good defensiuē that no euyl accidentes come vnto it, and see that the member be very well splented, wyth good and conuenient splentes, and take hede that you bynde not the member to strayte oꝝ faste, least you stoppe the course of the lyuelye spirites, and so the

man maye both lose his member and hys lyfe.  
 This pouder maye lye on to the seuenth daye  
 or the tenth daye , if there come no euill ac-  
 cidentes , and then refreshe it agayne as you  
 dyd befoze , and yf anye accidentes come to  
 the member , you muste remoue it the soner,  
 and annoynt it wyth warme oyle as is afoze-  
 sayde . This pouder is good also for woundes  
 for it stoppeth bledyng and maketh the wound  
 quicklye to consolidate yf it be layde vpon the  
 other two pouders afozesayde , or on eyther  
 of them in maner of a plaster , when  
 they are myngled wyth the greene  
 Baulme as is afozesayde in  
 their places.

Kkk.j.

Cataplasma

# Cataplasma D. Gul.

Buttees ad phlegmone s.

Take a fatte peece of bealle, oz a Capon and boyle it in water and whyte wyne, then strayne it from the fleeshe, and set the same licour ouer the fier agayne, and put thereto.

Maluarum,	M.ij.
Fol. Violarum	} ana, M.ij.
Solatri,	

Boyle them tyll they be softe and tender, and then take it from the fier, and powder awaye the licour, and stampe the herbes fyne in a moztar and put thereto, Barley mealle as much as shall suffice to make it lyke a Cataplasme oz Pultis, accoꝝdyng to arte.

Cataplasma eiusdem ad dolorem  
sedandum.

Rec. Maluarum,	} ana. M.ij.
Fol. Violarum,	

Florum

Florum chamomillę }  
 Foliorum rosarum, } ana. M. ij.

Boyle all these in mylke tyll they be softe and tender, then put them in a moyster and stampe them small and put thereto.

Vnguenti rosarum, }  
 Vnguenti populij } ana, j. vnce  
 Vitella ouorum, numero. ij. } and a halfe.  
 Farinæ hordei, }  
 } tyvo vnces.

Incorporate all these together, and when you shall occupie it, sprede it thicke on a clothe and warme it agaynst the spher, and yf there be anye harde indurate matter in the member, then put there to the mucylage of marche Malowe rotes and Seminis psylij ana. halfe an vnce.

Cataplasma Diaphoreticum D. Gul.  
 Cunynghami Medici.

Rec. Foliorum Sambuci,  
 Saluicę,  
 Rutę,  
 Althęæ,  
 Chamomilli,

℞kk. ij.

℞ouse

The seconde booke of

Wrouse and cutte these smalle , and boyle them in the decoction of Lyneseede and Fen: greeke : And when they haue boyled vntyll they bee tender and softe, adde to them.

Olei irini, }  
Anethini, } ana. j. vnce & a halfe.  
Castorij, }

Boyle them agayne together, and make a Cataplasme accoꝝdyng to arte.

This Cataplasme is good to resolue and mollifie all hardnesse of ioyntes , and grosse and slymye humours whiche are impacte in the same . Therefore it is profitable in passions of the ioyntes, Chiragra, Podagra, & Sciatica, and suche lyke . Also it maye ryght well be bled in coulde tumours infestynge the muscu- lous partes of the armes and legges.

Aliud valentius eiusdem.

Rec.



Rec, Radicum & foli-  
 orum Ebuli, } ana. M. j.  
 Altheæ.

Foliorū Rutæ,  
 Sabinæ, } ana. M. ſc.  
 Pulegij,  
 Sambuci,

Chamemeli, } ana. M. ij.  
 Meliloti,

Boyle theſe beyng cutte and brouſed in  
 one parte of Malmeſey , and thzee partes of  
 Dyle of Chamomille vntyll they come to the  
 ſubſtaunce of a Cataplaſme. &c.

This Cataplaſme is of lyke vertues with  
 the other goynge befoze , ſauynge that it is of  
 greater force and ſtrengths in the effectes be-  
 foze remembred. &c.

Cataplaſma anodynum noſtræ  
 inuentionis.

Kkk. iij.

Rec.

The seconde booke of

Rec. Foliorū Iusquiami, } ana.j.M.  
Violarum, }

Boyle them in water vntyll they bee softe,  
then stampe them fyne and adde to them,

Panis puriss.	one pounce,
Lactis,	one pounce,
Olei rosati,	three vnces.
Vitella. ouorum numero iij.	
Croci,	one scruple.

Make hereof a Cataplasme accoꝝdyng to  
arte.

This Cataplasme of Pultas, is verye excellent in ceasinge of paynes in the goute of cholericke personnes, where great inflammation is, and in a sensible and tender bodye. For it doeth bothe allwage payne, and remouew swelling in thozte tyme, if the bodye be well prepared befoze.

Cataplasma Rogerij.

Rec. Farinæ fabarum,	one pounce,
Furfuris subtiliter puluerisati, ij.M.	
Stercoris caprini,	one pounce,
	Chamo.

Chamomilli,  
 Meliloti,  
 Absynthij, } ana. M. ſc.

Stampe your herbes fyne, and boyle them all together wyth sufficient whyte Wyne and Lie of Barbaras. Boyle it vntyll it come to the forme of a Cataplasme, and applye it so whote as the Patient maye suffer it. This Cataplasme is of great resolution in wyndye matters of the ioyntes, for it doeth resolue and disperse the wynde and waterye matter, and specialllye if you put to it a lytle Cummen in fyne Powder. Some vse to putte in mooze Wyne and Lie, and no Beane meale nor Bzanne, and so boyle it with herbes and other thynge as is befoze sayde. Then strayne it and with the lycour beynge whote, and spongies applied to the iunctures, and so rolle it accoꝝdyng to arte. I haue seene thys doe verye well.

Aliud Cataplasma.

Rec. Foliorū Maluarum,  
 Violarum,  
 Mandragore,  
 Iusquiami, } ana. M. j.

Kkk.iiij.

Radi-

The seconde booke of

Radiciſ Althææ	}	ana. ij. vnces.
Seminis Lini,		
Fœnogręci,		
Florū Chamomeli,	}	ana. j. vnce.
Meliloti,		

Boyle all your herbes in potage without  
Salt, then ſtampe them ſynely & put to the reſt  
of your thynges in powder. When boyle all  
together wyth the bzothe aforeſayde. And  
make thereof a Cataplaſme accoꝝdyng  
to arte.

This Cataplaſme is verpe good to ſeaſe  
Inflammations and payne in mirte matter  
bothe of Bloode and Choller, yf you  
adde to it unguentum Popu-  
leon two vnce.

Waters

## Aqua Balsami.

**Rec.** Terebinthinæ, foure pounce.  
 Olibani, two vnces.  
 Ligni aloes, two dragmes.  
 Mastiches, }  
 Garyophyllorum, } ana, one vnce  
 Galange, } and a halfe,  
 Nucis muscatę, }  
 Cinamomi, }  
 Gummi elemi, syxe vnces,  
 Aloes hepaticę, }  
 Laudini, } ana ij. vnce  
 Castorij, }  
 Radicũ cõsolidæ minoris }  
 & Maioris, }  
 Foliorum hyperici }  
 Betonice, } ana. M. f.  
 Chamępitios, }

Aqua



## The second booke of

Aquæ vitę foure tymes styllled, syxe  
pounde.

Make all those thynges in powder that you can make in powder and myre them well with the reste . Then put them all into a bodeye of glasse wyth the Aqua vite and let them stande so the space of seuen dayes close couered . Then set them to styll wyth a softe fyze accordyng to arte . Fyyste you shall haue a clere water called water of Balme . Whyche you maye receyue a parte . And when the colour of the water changeth some thyng to yellownes then kepe that water a parte . And put vnder another receauer to take the nexte lycour , whych wyll be lyke to a yellowe water , then you maye increase your fyr by litle and litle , tyl you perceiue droppes of oyle come forth, which oyle wyll be yellowe also , then you maye remoue that receauer and put vnder another to take the Balme, which wyl come after that oyle and water , whyche Balme wyll be moze thyccker and redder then the Oyle , and it wil come of it selse , wythoute water , thys Balme is verye pꝛecious , and is called Artificiall Balme . Nowe the Oyle that I spoke of befoze , that came wyth the yellowe  
water

water , is called the Oyle of Balme , and it wyll swyme aboue the water , so that you maye deuyde it from the water at your pleasure . And thys Oyle is mooste precious in paralices , and spasms , commynge of colde matter , as I haue manye tymes proued, the water of Balme is verye precious , and olde Alchymistes , dyd distyll it agayne with raigne water , so muche of one as of the other , and called it the Ladye of all medycynes , for it is of greate vertue in resyltyng the plague popion , and manye other thynges , yf it be taken wyth Ale, Bere , or Wyne , fastyng the quantite of sixtene or twentye droppes, in onc sponefull of anye drynke aforesayde , but I haue vsed it for a remedye agaynst the Plague, after thys maner , take of the leaues of Rue , Wormewoodc , Scabyous , Turmentyll , Marygoldes and Dragans , of ech two vnces , and putte them into one quarte of the water , so distyll wyth Rayne water the space of thzee dayes , and in that tyme the water wyll take all the vertue from the herbes so that it shall not haue the vertue of those herbes , but all the vertue it had in it selfe befoze , and thus I vsed it to the greate prosypte and sauegarde of manye,  
nye,

## The seconde booke of

nye , yf I shoulde wyte of all the mar-  
ueylous thynges , that I haue done wyth  
thys water , Oyle , and Balme , it were  
to be maruayled at , and yet mosse true,  
As concernynge the vse and commodytie of  
them, you shall fynde in dyuers of my bookes  
as cause doth require.

### Lac virgineum.

Rec. Lytarge of Syluer in fyne Powder  
thzee unces , of good whyte Veneyger halfe  
a pynte , myre them together , and distill  
them by a fylture oz thozowe a lyttle bagge,  
oz by a peece of clothe, take of the same wa-  
ter myngle it wyth water of salte , made  
wyth one vnce of salte poudred and halfe a  
pounde of Rayne water oz well water , and  
myngle these waters together , and it  
wylbe whyte lyke mylke , and with thys  
rubbe the corrupte place. Some addeth a lyttle  
Ceruse wyth thys Lytharge whyche is good

foz all rednes of the face.

Aqua corrodens.

Rec. of Sal alkali, or yf ye can not haue that, take Sall Armoniacke and vnfleeced Lyne ana. one pounce, and beate them to fyne powder, and putte them in an earthen pottle whych hath holes in the bottome lyke to a colander and presse them stronglye downe, so that the water maye not swiftlye passe thozow, and power vppon them, so muche water as wyl couer it a finger hyght aboue the powder, and so suffer it to dzope or straine thozow, and put vnder it a receptacle to kepe the water, & when all the water is runne thozow, renewe, or take newe lime and newe salt as is aforesayd, and let the foresayd water runne thozow the same, and keepe that water for your vse. Thys water is good in manye operations it wyl cauterise like an whote yron, and it is good in fistulaes and to manye other thynges, if ye adde to thys of Mercurie subliminate in powder one vnce, it wyl bee the better, and chieflye in Chameleontia si, where the bones be corrupted.

Aqua Mercurialis.

Rec.

## The second booke of

Rec. Mercurij sublimatj, } ana, halfe a  
Salis armoniaci, } pounce.

Grynde them verye fyne vppon a moller  
stone bothe together wyth out anye other ly-  
cour, and put them in a stronge Glasse, that  
wyll a byde the fyer. Then take a newe  
earthen Potte, and put ashes into it, the  
thychkenesse of one synger. Then shutte  
your Glasse in the Potte, and fyll vj the  
Potte wyth ashes rounde aboute the Glasse,  
so that the Glasse maye stande softe within  
the Potte. Then put your Potte wyth the  
Glasse so sette in it, into a Forneysse, and make  
vnderneath it a fyer, and close the mouthe of  
the Glasse wyth some linnen clothe, not to  
harde soz breakyng of the Glasse, and some-  
tyme open it to gyue vente. And you shall  
knowe when it is boyled inoughe, by put-  
tyng in of a knyfe oz some other instru-  
ment of Iron, and if it bee boyled inoughe,  
it wyll cleaue to the knyfe oz instrument like  
to molten Piche. Then take it from the fy-  
er, and let it stande vntyll it bee colde, then  
bzeake the Glasse, and take the substaunce  
that you fynde in the same Glasse, and make  
it in fyne Pouder ones agayne vppon a moller  
stone. Then let it stande a daye and a nyght  
in



In an earthen vessell putte a broade very thine that it maye take the ayer and become moyst, then put it in bagge and hange it vpp that it maye droppe into a vessell of glasse, and that water wyll be very cleare, and is called *Aqua mercurij*. Thys water maketh Copper whyte, and all other mettalles, and is of a meruelous operation it wyll cure a fistulay yf it be putte to the bottome thereof by arte, for it taketh awaye the harde fleshe whyche letteth the sykulay to be made hole.

*Aqua ad oris Vlcera.*

Rec. Hordei excorticate,	M.j.	
Foliorum Saluie,	} ana, M.j.	
Violarum,		
Rorismarine,	M.s.	
Mellis.		foure sponcfulls.
Aluminis,		tyvo vnccs.

Boyle all these together in one gallon of water tyll the better halfe be consumed, then strayne it, and lette the sycke man continually washe

## The second booke of

washe hys mouthe wyth it warmed tyll he be whole , it is good for those that haue a sore mouth which cometh by reason of applying the vnguent bled in Chameleontias, in whiche vnguent Argentinum viuum is put , and the more the patiente spetteth and washeth the better it is.

### Alia aqua pro eodem.

Rec. Rorismarinę,	} ana, M.iiij.
Saluę	
Lupinorum,	M,ij.
Aluminis,	foure vnces.
Mellis,	halfe a pounce.

Boyle all these together in foure gallons of water, vntyll the halfe be consumed Then let it stande vntyll it bee colde , and strayne it , and keepe it in an earthen Pot to your vse. This water serueth for the lyke purpose, that the other aforesayde serueth for, and is a great ercicatiue . It healeth Cankers in the mouthes of the chyldzen , s in olde folkes

folkes also, if it bee mixed with bnguentum  
 Egiptiacum, moore or lesse accoꝝdyng to the  
 disease. It is good also to washe cankerous  
 blcers, yf you put thereto a lytle Egiptiacum  
 aforesayde. For it preserueth the Ulcer  
 from putrefaction, yf other conuenient me-  
 dicines bee applyed therewithall. It dryeth  
 by also olde soores beyng mixed as is aforesayde,  
 yf they bee not deepe in the fleshe,  
 manye other good properties it hath, whichs  
 you shall fynde by experience thereof.

Aqua ad mundificandum vul-  
 nera, nostræ inuentionis.

Rec. Agremoniz,  
 Hyperici,  
 Centaurij,  
 Absynthij,  
 Scabiosæ,  
 Crassulæ maioris,  
 Radicis Symphiti

} ana. j. M.

## The seconde booke of

Stamppe all these well, and lette them boyle wyth one Gallon of water, and one pottell of whyte Wyne, and Sugre halfe a pounce, vntyll halfe of the lycour bee consumed. Then straine it, and keepe it to your vse.

This Water muste bee conueyed into the deepe places of woundes or vlcers wyth a syrnge, made so warme as the Patient maye suffer it. And if you wyll haue it of greate mundification, adde thereto Mel rosarum. And yf you wyll haue it of greater excication, and some thynge to coole and putte awaye inflammation, adde vnto it when you wyll occuppe it, halfe so muche Plantaine water, or Pygthade water wherein a lytle Alumie is boyled. This water is excellent in operation, for it clenseth from the depe parts all corrupte and fylthye humours, and causeth the other medycines that are applyed to the soze places to take the better effect in their operation, you maye myngle also wyth this decoction vnguentum Egipciacum or the powder of marcurye precipitate accoordinge to your descretion. Provided alwayes that all other good inuentions required in the arte of Chirurgerye be obserued and kepte and chieslye the euacuation of the matter, that they growe of, or that mayntayneth them, and also to keepe suche diat, as is meete for the curynge

curynge of that disease.

Potio ad vulnera conglutinanda nostræ inuentionis.

Rec. Polipodij quercini,	foure vnces.
Crissulæ maioris,	} ana. ij. vnces.
Pirolæ,	
Anance,	
Pilosillæ,	
Veronicæ	
Solissequij,	} ana. j. vnce.
Agrimoniæ,	

Chope all these herbes small , and putte them into a newe earthen pottle , and putte thereto one pottell of the beste malmesie that you can gette , and one quartre of water of Scabiose, and seethe them in Balneo mariz, by the space of thzee houres together, and in anye wyse lette the pottle be close couered and passed aboute wyth some dowe and byene, that no breath go forth, and yf the wounde be in the head put in a lytle Sage, Betonie, and Lauander spicke, and yf it be in the brest and throughte the louniges , putte in a lyttle Lycorice, Flope and Enulacampane roote , yf it be aboute the

All. y.

rayne



## The seconde booke of

raynes put in a perslay rote and a fenell rote,  
When all these thynges are boyled together  
Let it stande by the space of one nyghte af-  
ter, then open the Potte and strayne forth  
the licoure, and putte therebnto of fyne Su-  
ger foure pounce, and boyle it a lytle agayne.

This dzyinke is mooste excellent for the cu-  
rynge of woundes that bee in the bodye or  
thorow the bodye, for it healeth them in  
shorthe tyme, and consumeth alwaye the bloode  
that is within the bodye withoute anye greefe  
or payne, in a maner they neede no other re-  
medyes. For if they washe the wounde  
with thys same dzyinke a lytle warmed, and  
laye a weate clothe vppon the wounde foure  
or fyue double, weate in the same dzyyncke, it  
wylle heale it in verye shorthe tyme wythoute  
anye other medicine, dzyynkyng euerie mo-  
nyng and euenyng foure vnce at eyther  
tyme of thys same dzyyncke warmed.

This dzyyncke hath bene well proued in the  
warres bothe by sea and lande, by me Tho-  
mas Gale Maister in Chirurgerie in the Citie  
of London. Prouided alwayes that the  
Patient bee kepte soluble, and vse a verye  
small dyet, vntyll the seuenth daye bee past,  
and so to bee well gouerned in all other  
thynges appertaynyng to hys health, accor-  
dyng

Oping to the arte of Chirurgie.

Alia potia pro eodem nostræ  
inventionis.

Rec. Hordei excorticati,  
Agremonie,  
Hilopi,  
Bethonica, } ana. M. f  
Polipodij,  
Symphiti,  
Plantaginis, } ana. M. j  
Centumnodiorum,

If you may not haue these herbes grene, take  
them drie, you must put in also.

Hypericj,  
Scabiosa, } q. s.

Boyle all these herbes together wyth your  
Barley, in three pottells of water wyth foure  
sponefulles of Honnye, till the better halfe  
be consumed, then lette it stande tyll it be  
colde and Straine it, Thys drinke muste be vsed  
All. iij. morning

## The seconde booke of

morninge and eueninge warme at eche tyme  
fyre vnces , wyth thys he dyd maruaylous  
cures and healed them in shozte tyme , for  
thys drynke defendeth the wounde from e-  
uyl accedentes , yf the patiente keepe good  
diat, and other thynges necessary for his health  
as is sayde befoze.

### Aqua decoctionis ligni Sancti no- stræ inuentionis.

It is to be considered that there be thze soztes  
of thys woode , that is to saye that, that is ve-  
rye olde, that, that is meane and not olde, and  
that which is yonge and the bolues of the trees,  
and euerye one of these dothe differ in qualitie  
from other , for that, that is yonge wyth the  
braunches also, are of a moze moyst & ayrie sub-  
stance , then the other two be , and that  
that is olde is moze harder of degestion and  
and slower in hys operation , and longer o-  
anye cure maye be done wyth it, wherefoze we  
doe comunlye vse that, whyche is yonge and  
whyteft wyth the barke of the same, for it doeth  
not drye alwaye , the naturall moysture of  
mans bodge, so lone as the olde dothe, and that  
is

is by reason of hys moistenes , yet in hys propertie he dothe as muche as the other , the olde and blacke woode is good to make oyles and suche lyke thynges , cyther by decoctions or by distillations , for it is moze satre and Gummi then the other is , excepte it be rotten and then it is not good in medycynes. Thys woode hath a synguler propertie against Chameleontiasin , and also agaynste manye other moyste and ruminicke syckneses , for it letteth putrifaction , and altereth the euill qualities of the humours , it comforteth the stomacke , and openeth the obstructions of the liuer, and moueth the bodye to sweate , and helpeth nature to putte forth manye perrilous and contagious vapours by the powlers outwardlye. Also that whyche is the oldest beyng boyled in decoctions and other wayes , by arte prepared , is verye good for vlcérations , fistulayes, ache or paine , beyng applyed accordyng to the arte of Chirurgerye , as is mencioned in this booke in diuers places . And sytke of all to make the decoction to drinke inwardlye, you shall vse the yongeste woode or the bzaunches wyth some parte of the barke of the same as it foloweth here.

Take one gallon of faire water, and putte it in to a newe earthen potte , the whyche maye

℞.iij.

holde

holde thre gallons of water , or two gal-  
 lons and a halfe at the leste , and put there-  
 vnto of the yongeste woode afoze sayde wyth  
 some of the barke, one pounce in powder , Ly-  
 cozice broused two vnces . Set them vppon a  
 fewe coales , the potte beyng close couered tyll  
 it be verpe whote , then take it of the fyze and  
 lette it steepe twelue houres . When boyle it  
 vppon a softe fyze , the potte beyng close co-  
 uered , that so lyttle of the ayze maye passe  
 awaye as is possible tyll the halfe be consu-  
 med , then strayne it and putte it into a faire  
 vessell . Thys is the stronge dzyinke whyche  
 they maye dzyinke of moornyng and euenyng  
 at sche tyme eyghte vnces , and euerye mo-  
 nyng the sycke person to sweate after that he  
 hath taken of the same dzyinke, by the space of  
 two houres . And for the seconde decoction  
 whyche he muste vse wyth hys meate you  
 must putte to the same wood that you straine  
 from your fyfte decoction so muche water as  
 you dyd before , and lette it stande and steepe  
 as is afozesayde in the same potte , by the  
 space of twelue houres, and then boyle it tyll  
 the halfe be consumed as ye dyd the other be-  
 fore . In weake bodyes and colde we haue  
 vled to putte in the fyfte decoction one pint of  
 malmesye or Hacke , a lyttle before that it be  
 taken from the fyze , and in the latter dzyinke  
 ins



We haue vsed to put in rackte Venishe Wyne. But in the stronger bodyes and those that bee not so weake, we vse to geue it alone wythout Wyne. The bodyes muste bee well prepared before they take thys dzyne, or enter into the rules of this diet, by the space of twelue or fouretene dayes, in the whiche those humours maye bee purged that doe hurte the bodye or mainteyne the disease, and then when the bodye is well purged, they maye enter into the same dyet, geuyng them no other dzyne, but thys same abouesayde, and deminishinge their meate by lytle and lytle, tyll the sixe dayes bee passe, then let them haue so lytle meate as they maye lyue wythall, so if they shoulde take muche meate, nature shoulde bee so occupied aboute the digestion of the same, that it should not be able to ouercome and digest the sycknes other elles, suche quantitie of humours might growe thereof, that myght styll maynetayne the disease. Yet neuerthelesse those that bee cholericke bodyes maye take mooze meate and moyster meates, then those whiche bee phlegmaticke and moyste bodyes. Generallye they meates muste bee rosted, and of good nourishment, and easie to digest, as Potten, Weale, Capons, Rabettes, Chickens, Felsons, Partridges, blacke byrdes, Thrushes, and other small byrdes of the Wode.

℞.i.℞. Thys

## The second booke of

This muste bee onely their meate, and roasted withoute salte, excepte in cholericke bodyes that bee lyke to fall into some feuer, they maye haue theyr meates boyled, and eate them with a lytle Meriuse. In phlegmaticke bodyes they maye forbear their supper, and holde them content with one meale a daye, except at nyght a fewe Nelsons and blanchéd Almons. But Cholericke bodyes muste haue some meate at nyghte to satysfie their stomacke wythall, because they wyll sooner digest it, and hath no suche quantitie of moyste humours, as the Phlegmaticke or Sanguine persone hath. Theyr bread muste bee onelyc Wiskitte, made wyth a fewe Anyleedes and Sugre withoute Salte. They maye take of thys bread moore or lesse accordynge to the strengthe of theyr stomackes and complexion, as is aforesayde. This dyet or order muste bee kepte by the space of fourtie or fiftie dayes moore or lesse, accordyng to the necessitie of the sicknes, and euery sixte day the body must be purged with some gentle medicine meete for the disease, and for the complexion of the man. That day that they take their purgation, they maye not drynke their drynke nor sweate in the moornynge, nor no tyme that daye, all other dayes they muste sweate, for in sweating is the chiefest matter, that is required in the maner of  
cure,

cure. They muste vse all other manner of necessarie thynges, as sleppynge, quietnes good companie and a conuenient place, and aboue all thynges to be kepte close in all tymes of their cure, lesse that the ayre might enter in, and stoppe the powers and let them to sweate and doe them other displeasures.

Whys manes of curynge is moste praysed of many of our latter wynters and chesly of one, Hutton a Germane, of Necholas Massa, Ioannes Baptista Montanius Anthonius Gallus, Alfonsius farariensis, Anthonius Musa, Mucchellus belogenis, Leonardus Fuchsious, Ioannes Tagaletius, Dominicus Leanus Luencis, and of manye other moe which were very long here to rehearse, they haue wryten all in the commendations of the word but in effect, they haue concluded in the vsynge of it, as I haue made mention here aboue. And I my self hath found great profit & gotten great worship thereby, I inuented my self a syrope, which I made with this same decoction strongly boyled wyth suger, so much in weight of one as of the other, boyled till it come to a syrope, with the whyche syrope I did many great cures, and chesly when the patient was very weake, as you shall synde moze hereafter in my booke. And thus we end this chap. soz y which y name of god be praysed.

Potio

## The second booke of

### Potio ad vulnera recentia Brunsvvicensis.

Take Iule leaues oꝛ Edera arboꝛea, grow-  
wyng on an Oken tree foure vnce, Wynter  
greene, small and great, oꝛ Pirola in La-  
tine, Sanicle oꝛ Diapensia, Syndan, Herba  
foꝛtis, oꝛ Veronica, ana. two vnces. Herba sol-  
sequy, one vnce. Choppe all these together  
berye small, and putte them in a Deuter Potte,  
and putte thereto foure pounce and a halfe  
of the beste Wyne, and of Water one  
pounce and a halfe. And ye shall seeth  
them in Balneo maria, thꝛee houres longe  
wythoute takynge of the leede of the potte,  
then on the moꝛowe after putte thereto eight  
vnces of suger: yf the wounde be in the heade  
then putte thereto Betonie two vnces, Sage  
one vnce, Lauander halfe an vnce, and yf the  
wound be in the bꝛeast, then putte thereto, Li-  
coꝛise, two vnces, Polipodij one vnce, Slope  
halfe an vnce, and yf the patient be feble & soꝛe  
then put thereto buglosse flowers, boꝛage flo-  
wers ana, one vnce Roses half an vnce; then yf  
the patiente haue greate heete putte thereto  
Alouettes two vnces flowers of nenufar half  
an vnce, yf the wounde be on the leste syde

Do thereto liuer wort one vnce, matrisilue half  
 an vnce, also yf he be not soluble, then it is ned-  
 full to putte thereto, Sene leaues Cassia  
 fistulæ ana, tvvo vnces, and yf he be depe woun-  
 ded, then put thereto Celidonye rootes, soure  
 vnces and gyue it hym to dzyinke at moynge  
 at noone and at euenyng, and at euerye tyme  
 soure vnces.

Alia potio eiusdem, pro eodem  
 affectu.

Rec. Matrifiluz,	}	ana. M.j.
Pilosillæ,		
Nausturtij,		
Brunellæ,		
Plantaginis,	}	ana. M.j.
Rutæ,		
Matricariæ,		
Chelidoniæ,		
Herbæ sarasenicæ,		M. j. se.

Diarentiæ,



The seconde booke of

Diarentiæ,	}	ana. M. j.
Herbæ tunici,		
Saluiæ,		M. sc.
Serpentina,	}	ana. ij. vncc.
Dictami,		
Castorij,	}	ana. halfe an vncc.
Mumia		
Myrrhæ,		
Absynthij,		

Put all these together in a Potte with good Whyte Wyne , and couer the Potte wyth a lydde, and close the lydde with Doughte , and in the lydde make a small hole and stoppe it wyth a tappe of Wood, and let it seeth tyll the thirde parte bee consumed, and drawe the tappe some tyme out, that ye may smell when it is inough. Of thys geue the Patient to dzyinke at mornynge and euenynge a sponnefull , and though the Patient bee metely in health, yet shall he not dzyinke the lesse , and he shall in his daylye dzyinke meddle thzee or foure droppes of the same .

Aqua imperialis contra  
pestem.

Rec.

**Rec.** Radicis brionix,  
 Gladiolæ,  
 Angelicæ,  
 Turmentillæ,  
 Lapatij,  
 Draguntij maioris &  
 minoris,  
 Corticis fraxini,  
 Guaiaci,

} ana. ij. vnccs  
 } ana. j. vncc.

Gather your rootes in Marche, and pyke  
 them cleane, then stampe them with the  
 Barkes aforesayde, and putte them in stronge  
 Malmesey the quantitie of foure pounce, or a  
 Pottell in a close potte. So let them stande  
 infuse vntyll the latter ende of Maye, then ga-  
 ther these herbes folowynge.

Foliorum scabiosæ,  
 Betonicæ,  
 Minthæ,  
 Verbenæ,  
 Turmentillæ,  
 Calendulæ,  
 Pimpenillæ,  
 Rutæ,

} ana. M. ij.

Foliorum

The second booke of

Foliorū Angelicæ,	}	ana. M. iij.
Dragantia,		
Absynthij,		
Saluicæ,		
Hyperici,	}	ana. M. j.
Pionia,		
Valeriana,		
Endiuicæ,		

Wrouse all your Herbes and putte them in  
tuse in one quarte of stronge Vinegre, one  
quarte of Rose water, and one quarte of good  
whyte Wyne three dayes. Then styll them  
in a common styll, and keepe thys water  
to your vse, for it is moste pzeious againte  
the Pestilence beyng mixed wth good Petri-  
datum or Trisacle, and geuen syre sponesfull  
euerye daye bothe to the sicke and whole.

Aqua corrodens alia.

Rec. Salis gemmæ,	}	ana. iij. vncc.
Salis alcali,		
Aluminis scistilis,		

Make these in fyne powder, and put them in a  
Gallon

Gallon of smithes water, and boyle them on the fire, & reserue this to they vse. This is very good againste filthy, & rotten blcets hauynge inflammation toynded wyth them, as experyence, both bath and can testifie.

Aqua nobilis in oculorum vitijs.

Rec.	Feniculi.	}	ana. ij. M.
	Rutæ.		
	Betonicæ.		
	Chelidoniæ.		
	Verbenæ.		
	Euphrasiæ.		
	Rosarum rubearum. xij. M.		
	Ligni sancti lib. ſ.		

Wrose theis, and put them in a newe earthyng potte wyth a quarte of whight wyne. Let theis be thus infused, ij, dayes, after put to them,

Aluminis.	vnce. iij.
Salis gemine.	vnce. ij.
Mastiches.	} ana. one vnce.
Vitrioli.	

Mum. j.      Olbani,

The second booke of

Olibani

Myrrhæ.

} ana. j. vnce. ſl.

Make theis in powder, and put them wyth the other percelles into a still of glasse, and put his heade on it, & lute them well together, and set a receptory also to it, wel closed to the spoute of the head, so let them stande one daye, after destill them in Balneo Marie, accoꝝdꝝnge as art requyꝝreth.

This water remoueth the whight spottes in the eyes, and restrayneth the flux of humours with haue recourse to the eyes, and is right excellent in other grefes of the same. as hath bene certeynlye tried not longe sens in a childe of the worshipfull Maister Gunstones of London, whiche hauynge soze eyes, and diuers sondꝝ medicines to them applied, dyd nothyngẽ pꝝenayle, but brought the eyes to woꝝse: caseim so much that some learned in phisicke counsiled the parents to boze the skynne of the necke throughe, with an hote yꝝon, that the humours ascendyngẽ myght bꝝeath out, oz els to pouрге the heade with pilles, and at the least to make diuersion of humours. But in fine, nothyngẽ pꝝenayled, and so the chylde was lefte to the woꝝke of nature. When maistres Gunstone, se-  
inge



Inge her childe boyd of helpe, and comfoste, was yet not in dispaire, but hoped that God would sende som remedye. So she found an olde boke, in whiche this water abouesayde, was conteyned, and for the perfecter distillynge therof she dyd require my helpe: whiche wyllynglye I graunted and distilled the water, of whiche. iij. oz. iij. tymes she dyd droppe a litle in to the childes eyes. by whiche vse and continuance the inflammation was put awaye; the flux of humoꝝ stayed, the whitte spottes and webbes consumed, & the childes eyes restozed (thanked be God) to ther perfecte helth and sight. whiche water for the excellency and noble vertues, I thought good to set out for the cōfoste of such as shall haue the lyke infirmitie. I haue wyth this water done many good cures sence that tyme, and haue of my selfe addyd to it, moze then was in Syr William Firmynghames booke, who was well lerned in Chirurgiye, and authour of this water) the roses and lignum sanctum. he flozished in the yeare of grace, 1475.

Mmm. ij. Aqua

The second booke of  
 Alia aqua præciosa in ijsdem oculorum morbis.

Rec.	Fœniculi Verbenæ. Saluiz. Agrimoniz. Bctonicæ. Rutæ. Chelidonz. Eufragiz. Calaminthæ. Pinpinellæ. Scablosæ. Chamædryos.	}	ana.j. M.
------	--	---	-----------

Wrose your herbes, and put to them on quart  
 of whight wyne, and a pinte of water of red  
 roses, also adde.

Aluminis.	iiij.vnce.
Tutiz.	ij.
Caphurz.	iiij.dragmes.

Make theis in powder, and destill them in a  
 comon still, and whan you haue ons distilled  
 them put the water vpon the feces, and destyll  
 it againe

It againe, and then reserue it to they vse. This water is ryght precious in rumatike bodyes, and inflammations of the eyes, and other lyke affectes.

## Aqua sine pari.

Rec. Aquæ vitæ quinquies distillatæ. iiii. li.

Salis vsti.

Sulphuris viui.

Tartari albi.

Nucum Inlandis.

Auellanæ.

Nitri.

Myrrhæ.

Aloes.

Gariophyllorum.

Nucis muscate.

Corticum limonũ.

arangiz.

Betonicæ.

Verb. næ.

Agrimoniæ.

Hyperici.

Feniculi.

Valerianæ.

Scabiosæ.

} ana. j. pound.

ij. vncc.

} ana. iiii. vncc.

ij. vncc.

} ana. j. vncc.

} ana. j. vncc. ſs,

} ana. vj. vncc.

} ana. j. M.

Rutz.

The second booke of.

Rutæ.	}	ana. M. j.
Abfynthij.		
Menthæ.		
Radicum angelicæ.	}	ana. j. vnce and halfe.
Zedoariæ.		
Tormentillæ.		
Acori.		
Florum genestæ.		
Rorismarini	}	ana. ij. vnce.
Camomillæ.		
Theriaces optimæ.		
iiij. vnce.		
Sem. Anifi.	}	ana. j vnce and halfe.
Peoniæ.		
Petrofelini.		

Boyle those that are to be brosed, and put al together, and let them stande. vij. dayes, after distil them accordynge to arte, and if that you doe agayne deskill them on the feces ones or twyse, you shall make the water of muche moze effecte and vertu.

It is excelllent againste venome, poyson, and pestilence, it doth kepe the humors & bodge from corruption and putrifaction, and that experience can right wel testifie, The proportion  
or quan

oz quantitie is to gyue one sponesfull wyth a  
cake oz twoo of manus Christi, oz in cholozike  
& sanguine complexions, and hotte regions,  
tymes of the yeare, wyth Syropes of buglosse  
oz violettes. &c.

Thus endeth the Anti-

dotarie, compiled and published by

Thomas Gale, Maister in

Chirurgiye. 1563.

12. August.

FINIS.



tegro hinc q. defectus of the hair  
Dontofio h. durlmigo  
decoloratio a deformitate  
quassatio a. h. d. m. g. h. p. u. d. r.  
h. a. n. o. h. s. h. o. r. t. b. i. t. a. m. i. g. o.  
atrophia h. r. o. n. s. u. m. i. n. g. o. o. f. t. h. e. h. a. i. r.  
f. o. r. l. a. r. k. e. o. f. h. o. o. d. e. /  
f. a. m. b. i. e. s. h. s. p. e. c. i. e. s.  
Alopecia } h. f. a. l. l. i. n. g. o. o. f. o. f. t. h. e. h. a. i. r.  
for }  
Arao }  
offusio h. m. i. t. e. g. e. t. a. t. h. a. u. s. f. a. d. l. o. n. g. o. /  
S. p. h. i. g. i. s. n. o. f. f. a. t. e. h. i. n. a. m. e. o. f. t. h. e.  
C. n. a. d. e. h. b. n. o. n. o. n. e. o. f. i. s. n. e. g. i. t.  
h. u. d. t. e. o. t. e. g. e. n. b. r. o. m. n. o. /

# A Table to the fyrste Booke, called the In- stitution of a Chirurgian.

**C**VIDOES Diffini-  
tion of Chirurgie.  
folio. 2. & 3.

*Theraputicon*, is that part  
of the Arte, whiche  
cureth mannes bodye  
with medicines eyther  
inwarde or outwarde.  
folio. 2.

*Galens* diffinition of Chi-  
rurgie. folio. 3.

Phisicke and Chirurgie,  
are both one Arte,  
as it appereth by *Hypo-  
crates*, and *Galen*. fol. 3.

The small estimation of  
Chirurgery, comes by  
the reason of the vn-  
learned emperiks, and  
rude sorte that vseth  
the Arte. fol. 4 & 11.

*Celsus* sayth, Chirurgie  
is the Auncientest  
part of medicine. fol. 4.

No man can be a perfect

Chirurgian except hee  
knowe the Anotomie  
of mannes bodye per-  
fectly, w all their tem-  
peratures. fol. 6. & 7.

The ende of Chirurgie  
is to restoze mans  
body to health. fol. 7.

What manner a man a  
Chirurgian should be.  
folio. 7.

A Chirurgian shoulde  
bee learned, & brought  
vp in experience, from  
hys youth. fol. 8.

Chirurgians should fol-  
low h warres to learn  
experiēce, As *Machaon*,  
*Podalirius* and *Achilles*  
dyd, which were excel-  
lent in the Arte. fol. 9.

The rablement of the  
vnlearned doth occupy  
the Arte to the ruine  
of the commō wealth,

# I N D E X.

- to y<sup>e</sup> destruction of many, to y<sup>e</sup> flander of the noble Arte, & the great displeasure of G D D. folio. 10.
- Chirurgerie wyll neuer recouer againe, except the Prince by lawes amende it. fol. 10.
- Science hath no greater enimie thā ignozance. folio. 10.
- Guido* requireth foure things in hym that is or should be a Chirurgian. fol. 11.
- Instruments both medicinal and instruments of metall parteining to the Arte. fol. 12. 15.
- Of a man wounded thoro<sup>w</sup> the breste with a sworde and made hole. folio. 12.
- A great error of the Empyicks to be noted. folio. 13.
- Instrumentes common and proper. fol. 13. 15.
- A notable stoppe of one hurt wyth a Horse. folio. 14.
- How a Chirurgian should proceede in hys Arte. folio. 15.
- A Chirurgian if hee will rightl<sup>y</sup>e cure, muste know things natural, not naturall, & against nature. fol. 16.
- The two causes of sicknesse. fol. 16. 17.
- Of thre kindes of sicknesse, according to the partes of mannes bodye. fol. 17.
- The accidence of sicknesse. fol. 17.
- A Chirurgian being ignorant in the disease canot minister a right medicamēt by knowledge. fol. 18.
- The principall diseases pertaining to y<sup>e</sup> Arte of Chirurgerie. fol. 18.
- The. iij. Instruments to cure these griefes w<sup>ch</sup>, as dyet, inward medicines & outwarde me-

Dici

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*Handwritten signature and scribbles at the bottom of the page.*

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|---|---|

F I N I S.

## A Table for the.iiii.bokes called Enchiridion.

First an Epistle to the Reader.

The fyrst Booke.

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## FINIS.

**T**hus We ende the fyrst Tome  
of our woꝝkes, with the Addition  
of two Treatises, one of Tumors  
against Nature, another of Ul-  
cers. For the which the  
name of God be  
prayed. &c.

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Chirurgian.

Anno Domini. 1564.  
*Mensis Augustij. 29.*

Cum Priuilegio Regiæ  
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